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CODE OF FEDERAL REGULATIONS

Title 15

Commerce and Foreign Trade

Parts 300 to 799

Revised as of January 1, 2017

Containing a codification of documents
of general applicability and future effect

As of January 1, 2017

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To cite the regulations in this volume use title, part and section number. Thus, 15 CFR 301.1 *refers to title 15, part 301, section 1.*

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Title 1 through Title 16.....as of January 1
Title 17 through Title 27.....as of April 1
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OLIVER A. POTTS,
Director,
Office of the Federal Register.
January 1, 2017.

THIS TITLE

Title 15—COMMERCE AND FOREIGN TRADE is composed of three volumes. The parts in these volumes are arranged in the following order: Parts 0–299, 300–799, and part 800–End. The first volume containing parts 0–299 is comprised of Subtitle A—Office of the Secretary of Commerce, Subtitle B, chapter I—Bureau of the Census, Department of Commerce, and chapter II—National Institute of Standards and Technology, Department of Commerce. The second volume containing parts 300–799 is comprised of chapter III—International Trade Administration, Department of Commerce, chapter IV—Foreign-Trade Zones Board, and chapter VII—Bureau of Industry and Security, Department of Commerce. The third volume containing part 800–End is comprised of chapter VIII—Bureau of Economic Analysis, Department of Commerce, chapter IX—National Oceanic and Atmospheric Administration, Department of Commerce, chapter XI—Technology Administration, Department of Commerce, chapter XIII—East-West Foreign Trade Board, chapter XIV—Minority Business Development Agency, chapter XX—Office of the United States Trade Representative, and chapter XXIII—National Telecommunications and Information Administration, Department of Commerce. The contents of these volumes represent all current regulations codified under this title of the CFR as of January 1, 2017.

For this volume, Ann Worley was Chief Editor. The Code of Federal Regulations publication program is under the direction of John Hyrum Martinez, assisted by Stephen J. Frattini.

Title 15—Commerce and Foreign Trade

(This book contains parts 300 to 799)

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SUBCHAPTER A—MISCELLANEOUS REGULATIONS

PART 300 [RESERVED]

PART 301—INSTRUMENTS AND APPARATUS FOR EDUCATIONAL AND SCIENTIFIC INSTITUTIONS

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301.9 Uses and disposition of instruments entered under subheading 9810.00.60, HTSUS.
301.10 Importation of repair components and maintenance tools under HTSUS subheadings 9810.00.65 and 9810.00.67 for instruments previously the subject of an entry liquidated under subheading 9810.00.60, HTSUS.

AUTHORITY: Sec. 6(c), Pub. L. 89–651, 80 Stat. 897, 899; Sec. 2402, Pub. L. 106–36, 113 Stat. 127, 168; 19 U.S.C. 1514(c)(3)); and Presidential Proclamation 7011, signed on June 30, 1997.

SOURCE: 47 FR 32517, July 28, 1982, unless otherwise noted.

§ 301.1 General provisions.

(a) *Purpose*. This part sets forth the regulations of the Department of Commerce and the Department of the Treasury applicable to the duty-free importation of scientific instruments and apparatus by public or private nonprofit institutions.

(b) *Background*. (1) The Agreement on the importation of Educational, Scientific and Cultural Materials (Florence Agreement; ''the Agreement'') is a multinational treaty, which seeks to further the cause of peace through the freer exchange of ideas and knowledge across national boundaries, primarily by eliminating tariffs on certain educational, scientific and cultural materials.

(2) Annex D of the Agreement provides that scientific instruments and apparatus intended exclusively for educational purposes or pure scientific research use by qualified nonprofit institutions shall enjoy duty-free entry if instruments or apparatus of equivalent scientific value are not being manufactured in the country of importation.

(3) The Annex D provisions are implemented for U.S. purposes in Subchapter X, Chapter 98, Harmonized Tariff Schedule of the United States (HTSUS).

(c) *Summary of statutory procedures and requirements*. (1) U.S. Note 1, Subchapter X, Chapter 98, HTSUS, provides, among other things, that articles covered by subheadings 9810.00.60 (scientific instruments and apparatus), 9810.00.65 (repair components therefor) and 9810.00.67 (tools for maintaining and testing the above), HTSUS, must be exclusively for the use of the institutions involved and not for distribution, sale, or other commercial use within five years after entry. These articles may be transferred to another qualified nonprofit institution, but any commercial use within five years of entry shall result in the assessment of applicable duties pursuant to § 301.9(c).

(2) An institution wishing to enter an instrument or apparatus under tariff subheading 9810.00.60, HTSUS, must file an application with the Customs and Border Protection in accordance with the regulations in this section. If the application is made in accordance with the regulations, notice of the application is published in the FEDERAL REGISTER to provide an opportunity for interested persons and government agencies to present views. The application is reviewed by the Secretary of Commerce (Director, Statutory Import Programs Staff) , who decides whether or not duty-free entry may be accorded the instrument and publishes the decision in the FEDERAL REGISTER. An appeal of the final decision may be filed with the U.S. Court of Appeals for the Federal Circuit, on questions of law only, within 20 days after publication in the FEDERAL REGISTER.

(3) Repair components for instruments or apparatus admitted duty-free under subheading 9810.00.60, HTSUS require no application and may be entered duty-free in accordance with the procedures prescribed in § 301.10.

(4) Tools specifically designed to be used for the maintenance, checking, gauging or repair of instruments or apparatus admitted under subheadings 9810.00.65 and 9810.00.67, HTSUS, require no application and may be entered duty-free in accordance with the procedures prescribed in § 301.10.

(d) *Authority and delegations.* The Act authorizes the Secretaries of Commerce and the Treasury to prescribe joint regulations to carry out their functions under U.S. Note 6, Subchapter X, Chapter 98, HTSUS. The Secretary of the Treasury has delegated authority to the Assistant Secretary for Enforcement, who has retained rulemaking authority and further delegated administration of the regulations to the Commissioner of the Customs and Border Protection. The authority of the Secretary of Commerce has been delegated to the Assistant Secretary for Enforcement and Compliance who has retained rulemaking authority and further delegated administration of the regulations to the Director of the Statutory Import Programs Staff.

[47 FR 32517, July 28, 1982; 47 FR 34368, Aug. 9, 1982, as amended at 66 FR 28832, May 25, 2001; 74 FR 30463, June 26, 2009; 78 FR 72571, Dec. 3, 2013]

§ 301.2 Definitions.

For the purposes of these regulations and the forms used to implement them:

(a) *Director* means the Director of the Statutory Import Programs Staff, International Trade Administration, U.S. Department of Commerce.

(b) *The Commissioner* means Commissioner of Customs and Border Protection, or the official(s) designated to act on the Commissioner's behalf.

(c) *CBP Port''* or *the Port* means the port where a particular claim has been or will be made for duty-free entry of a scientific instrument or apparatus under subheading 9810.00.60, HTSUS.

(d) *Entry* means entry of an instrument into the Customs territory of the United States for consumption or withdrawal of an instrument from a Customs bonded warehouse for consumption.

(e) *United States* includes only the several States, the District of Columbia and the Commonwealth of Puerto Rico.

(f) *Instrument* means instruments and apparatus specified in U.S. Note 6(a), Subchapter X, Chapter 98, HTSUS. A combination of basic instrument or apparatus and accompanying accessories shall be treated as a single instrument provided that, under normal commercial practice, such combination is considered to be a single instrument and provided further that the applicant has ordered or, upon favorable action on its application, firmly intends to order the combination as a unit. The term ''instrument'' also covers separable components of an instrument that are imported for assembly in the United States in such instrument where that instrument, due to its size, cannot feasibly be imported in its assembled state. The components, as well as the assembled instrument itself, must be classifiable under the tariff provisions listed in U.S. Note 6(a), Subchapter X, Chapter 98, HTSUS. See paragraph (k) of this section and § 301.3(f). Unless the context indicates otherwise, instrument or apparatus shall mean a foreign ''instrument or apparatus'' for which duty-free entry is sought under subheading 9810.00.60, HTSUS. Spare parts typically ordered and delivered with an instrument are also considered part of an instrument for purposes of these regulations. The term ''instruments'' shall not include:

(1) Materials or supplies used in the operation of instruments and apparatus such as paper, cards, tapes, ink, recording materials, expendable laboratory materials, apparatus that loses identity or is consumed by usage or other materials or supplies.

(2) Ordinary equipment for use in building construction or maintenance; or equipment for use in supporting activities of the institution, such as its administrative offices, machine shops, libraries, centralized computer facilities, eating facilities, or religious facilities; or support equipment such as copying machines, glass working apparatus and film processors.

(3) General purpose equipment such as air conditioners, electric typewriters, electric drills, refrigerators.

(4) General-purpose computers. Accessories to computers which are not eligible for duty-free treatment are also ineligible. Scientific instruments containing embedded computers which are to be used in a dedicated process or in instrument control, as opposed to general data processing or computation, are, however, eligible for duty-free consideration.

(5) Instruments initially imported solely for testing or review purposes which were entered under bond under subheading 9813.00.30, HTSUS, subject to the provisions of U.S. Note 1(a), Subchapter XIII, Chapter 98, HTSUS, and must be exported or destroyed within the time period specified in that U.S. Note.

(g) *Domestic instrument* means an instrument which is manufactured in the United States. A domestic instrument need not be made exclusively of domestic components or accessories.

(h) *Accessory* has the meaning which it has under normal commercial usage. An accessory, whether part of an instrument or an attachment to an instrument, adds to the capability of an instrument. An accessory for which duty-free entry is sought under subheading 9810.00.60, HTSUS shall be the subject of a separate application when it is not an accompanying accessory. The existing instrument, for which the accessory is being purchased, may be domestic or, if foreign, it need not have entered duty free under subheading 9810.00.60, HTSUS.

(i) *Accompanying accessory* means an accessory for an instrument that is listed as an item in the same purchase order and that is necessary for accomplishment of the purposes for which the instrument is intended to be used.

(j) *Ancillary equipment* means an instrument which may be functionally related to the foreign instrument but is not operationally linked to it. Examples of ancillary equipment are vacuum evaporators or ultramicrotomes, which can be used to prepare specimens for electron microscopy. Further, equipment which is compatible with the foreign instrument, but is also clearly compatible with similar domestic instruments, such as a vacuum evaporator sold for use with an electron microscope, will be treated as ancillary equipment. A separate application will be required for ancillary equipment even if ordered with the basic instrument.

(k) *Components* of an instrument means parts or assemblies of parts which are substantially less than the instrument to which they relate. A component enables an instrument to function at a specified minimum level, while an accessory adds to the capability of an instrument. Applications shall not be accepted for components of instruments that did not enter duty-free under subheading 9810.00.60, HTSUS or for components of instruments being manufactured or assembled by a commercial firm or entity in the U.S. In determining whether an item is a component ineligible for duty-free consideration or an accessory eligible for such consideration, Customs and Border Protection shall take into account such factors as the item's complexity, novelty, degree of integration and pertinency to the research purposes to be performed by the instrument as a whole. The above notwithstanding, separable components of some instruments may be eligible for duty-free treatment. See paragraph (f) of this section.

(l) *Produced for stock* means an instrument which is manufactured, on sale and available from a stock.

(m) *Produced on order* means an instrument which a manufacturer lists in current catalog literature and is able and willing to produce and have available without unreasonable delay to the applicant.

(n) *Custom-made* means an instrument which a manufacturer is willing and able to make to purchaser's specifications. Instruments resulting from a development effort are treated as custom-made for the purposes of these regulations. Also, a special-order variant of a produced on order instrument, with significant modifications specified by the applicant, may be treated as custom-made.

(o) *Same general category* means the category in which an instrument is customarily classified in trade directories and product-source lists, e.g.,

scanning electron microscope, light microscope.

(p) *Comparable domestic instrument* means a domestic instrument capable or potentially capable of fulfilling the applicant's technical requirements or intended uses, whether or not in the same general category as the foreign instrument.

(q) *Specifications* means the particulars of the structural, operational and performance characteristics or capabilities of a scientific instrument.

(r) *Guaranteed* specifications are those specifications which are an explicit part of the contractual agreement between the buyer and the seller (or which would become part of the agreement if the buyer accepted the seller's offer), and refer only to the minimum and routinely achievable performance levels of the instrument under specified conditions. If a capability is listed or quoted as a range (e.g., ''5 to 10 nanometers'') or as a minimum that may be exceeded (e.g., ''5 angstroms or better''), only the inferior capability may be considered the guaranteed specification. Evidence that specifications are ''guaranteed'' will normally consist of their being printed in a brochure or other descriptive literature of the manufacturer; being listed in a purchase agreement upon which the purchase is conditioned; or appearing in a manufacturer's formal response to a request for quote. If, however, no opportunity to submit a bid was afforded the domestic manufacturer or if, for any other reason, comparable guaranteed specifications of the foreign and domestic instruments do not appear on the record, other evidence relating to a manufacturer's ability to provide an instrument with comparable specifications may, at the discretion of the Director, be considered in the comparison of the foreign and domestic instruments' capabilities. Performance results on a test sample run at the applicant's request may be cited as evidence for or against a guaranteed specification.

(s) *Pertinent* specifications are those specifications necessary for the accomplishment of the specific scientific research or science-related educational purposes described by the applicant. Specifications of features (even if guaranteed) which afford greater convenience, satisfy personal preferences, accommodate institutional commitments or limitations, or assure lower costs of acquisition, installation, operation, servicing or maintenance are not pertinent. For example, a design feature, such as a small number of knobs or controls on an instrument primarily designed for research purposes, would be a convenience. The ability to fit an instrument into a small room, when the required operations could be performed in a larger room, would be either a cost consideration or a matter of convenience and not a pertinent specification. In addition, mere difference in design (which would, for example, broaden the educational experience of students but not provide superior scientific capability) would not be pertinent. Also, characteristics such as size, weight, appearance, durability, reliability, complexity (or simplicity), ease of operation, ease of maintenance, productivity, versatility, ''state of the art'' design, specific design and compatibility with currently owned or ordered equipment are not pertinent unless the applicant demonstrates that the characteristic is necessary for the accomplishment of its scientific purposes.

[47 FR 32517, July 28, 1982; 47 FR 34368, Aug. 9, 1982, as amended at 66 FR 28832, May 25, 2001; 74 FR 30463, June 26, 2009]

§ 301.3 Application for duty-free entry of scientific instruments.

(a) *Who may apply*. An applicant for duty-free entry of an instrument under subheading 9810.00.60, HTSUS must be a public or private nonprofit institution which is established for educational or scientific purposes and which has placed a bona fide order or has a firm intention to place a bona fide order for a foreign instrument within 60 days following a favorable decision on the institution's application.

(b) *Application forms*. Applications must be made on form ITA–338P which may be obtained from the Statutory Import Programs Staff, International Trade Administration, U.S. Department of Commerce, Washington, DC 20230, the Web site at *http://ia.ita.doc.gov/sips/index.html*, or from the

various District Offices of the U.S. Department of Commerce.

(c) *Where to apply*. Applications must be filed with the U.S. Customs and Border Protection, at the address specified on page 1 of the form.

(d) Five copies of the form, including relevant supporting documents, must be submitted. One of these copies shall be signed in the original by the person in the applicant institution under whose direction and control the foreign instrument will be used and who is familiar with the intended uses of the instrument. The remaining four copies of the form may be copies of the original. Attachments should be fully identified and referenced to the question(s) on the form to which they relate.

(e) A single application (in the requisite number of copies) may be submitted for any quantity of the same type or model of foreign instrument provided that the entire quantity is intended to be used for the same purposes and provided that all units are included on a single purchase order. A separate application shall be submitted for each different type or model or variation in the type or model of instrument for which duty-free entry is sought even if covered by a single purchase order. Orders calling for multiple deliveries of the same type or model of instrument over a substantial period of time may, at the discretion of the Director, require multiple applications.

(f) An application for components of an instrument to be assembled in the United States as described in § 301.2(f) may be filed provided that all of the components for the complete, assembled instrument are covered by, and fully described in, the application. See also § 301.2(k).

(g) Failure to answer completely all questions on the form in accordance with the instructions on the form or to supply the requisite number of copies of the form and supporting documents may result in delays in processing of the application while the deficiencies are remedied, return of the application without processing, or denial of the application without prejudice to resubmission. Any questions on these regulations or the application form should be addressed to the Director.

(Approved by the Office of Management and Budget under control number 0625–0037)

[47 FR 32517, July 28, 1982, as amended at 50 FR 11501, Mar. 22, 1985; 66 FR 28833, May 25, 2001; 74 FR 30463, June 26, 2009]

§ 301.4 Processing of applications by the Department of the Treasury (Customs and Border Protection).

(a) *Review and determination*. The Commissioner shall date each application when received by Customs and Border Protection. If the application appears to be complete, the Commissioner shall determine:

(1) Whether the institution is a nonprofit private or public institution established for research and educational purposes and therefore authorized to import instruments into the U.S. under subheading 9810.00.60, HTSUS. In making this determination, the Commissioner may require applicants to document their eligibility under this paragraph;

(2) Whether the instrument or apparatus falls within the classes of instruments eligible for duty-free entry consideration under subheading 9810.00.60, HTSUS. For eligible classes, see U.S. Note 6(a), Subchapter X, Chapter 98, HTSUS; and

(3) Whether the instrument or apparatus is for the exclusive use of the applicant institution and is not intended to be used for commercial purposes. For the purposes of this section, commercial uses would include, but not necessarily be limited to: Distribution, lease or sale of the instrument by the applicant institution; any use by, or for the primary benefit of, a commercial entity; or use of the instrument for demonstration purposes in return for a fee, price discount or other valuable consideration. Evaluation, modification or testing of the foreign instrument, beyond normal, routine acceptance testing and calibration, to enhance or expand its capabilities primarily to benefit the manufacturer in return for a discount or other valuable consideration, may be considered a commercial benefit. In making the above determination, the Commissioner may consider, among other

things, whether the results of any research to be performed with the instrument will be fully and timely made available to the public. For the purposes of this section, use of an instrument for the treatment of patients is considered noncommercial.

If any of the Commissioner's determinations is in the negative, the application shall be found to be outside the scope of the Act and shall be returned to the applicant with a statement of the reason(s) for such findings.

(b) *Forwarding of applications to the Department of Commerce.* If the Commissioner finds the application to be within the scope of the Act and these regulations, the Commissioner shall (1) assign a number to the application and (2) forward one copy to the Secretary of the Department of Health and Human Services (HHS), and two copies, including the one that has been signed in the original, to the Director. The Commissioner shall retain one copy and return the remaining copy to the applicant stamped ''Accepted for Transmittal to the Department of Commerce.'' The applicant shall file the stamped copy of the form with the Port when formal entry of the article is made. If entry has already occurred under a claim of subheading 9810.00.60, HTSUS , the applicant (directly or through his/her agent) shall at the earliest possible date supply the stamped copy to the Port. Further instructions for entering instruments are contained in § 301.8 of the regulations.

[47 FR 32517, July 28, 1982; 47 FR 34368, Aug. 9, 1982, as amended at 50 FR 11501, Mar. 22, 1985; 66 FR 28833, May 25, 2001; 74 FR 30463, June 26, 2009]

§ 301.5 Processing of applications by the Department of Commerce.

(a) *Public notice and opportunity to present views.* (1) Within 5 days of receipt of an application from the Commissioner, the Director shall make a copy available for public inspection during ordinary business hours of the Department of Commerce. Unless the Director determines that an application has deficiencies which preclude consideration on its merits (e.g., insufficient description of intended purposes to rule on the scientific equivalency of the foreign instrument and potential domestic equivalents), he shall publish in the FEDERAL REGISTER a notice of the receipt of the application to afford all interested persons a reasonable opportunity to present their views with respect to the question ''whether an instrument or apparatus of equivalent scientific value for the purpose for which the article is intended to be used is being manufactured in the United States.'' The notice will include the application number, the name and address of the applicant, a description of the instrument(s) for which duty-free entry is requested, the name of the foreign manufacturer and a brief summary of the applicant's intended purposes extracted from the applicant's answer to question 7 of the application. In addition, the notice shall specify the date the application was accepted by the Commissioner for transmittal to the Department of Commerce.

(2) If the Director determines that an application is incomplete or is otherwise deficient, he may request the applicant to supplement the application, as appropriate, prior to publishing the notice of application in the FEDERAL REGISTER. Supplemental information/material requested under this provision shall be supplied to the Director in two copies within 20 days of the date of the request and shall be subject to the certification on the form. Failure to provide the requested information on time shall result in a denial of the application without prejudice to resubmission pursuant to paragraph (e) of this section.

(3) *Requirement for presentation of views (comments) by interested persons.* Any interested person or government agency may make written comments to the Director with respect to the question whether an instrument of equivalent scientific value, for the purposes for which the foreign instrument is intended to be used, is being manufactured in the United States. Except for comments specified in paragraph (a)(4) of this section, comments should be in the form of supplementary answers to the applicable questions on the application form. Comments must be postmarked no later than 20 days from the date on which the notice of

application is published in the FEDERAL REGISTER. In order to be considered, comments and related attachments must be submitted to the Director in duplicate; shall state the name, affiliation and address of the person submitting the comment; and shall specify the application to which the comment applies. In order to preserve the right to appeal the Director's decision on a particular application pursuant to § 301.6 of these regulations, a domestic manufacturer or other interested person must make timely comments on the application. Separate comments should be supplied on each application in which a person has an interest. However, brochures, pamphlets, printed specifications and the like, included with previous comments, if properly identified, may be incorporated by reference in subsequent comments.

(4) *Comments by domestic manufacturers.* Comments of domestic manufacturers opposing the granting of an application should:

(i) Specify the domestic instrument considered to be scientifically equivalent to the foreign article for the applicant's specific intended purposes and include documentation of the domestic instrument's guaranteed specifications and date of availability.

(ii) Show that the specifications claimed by the applicant in response to question 8 to be pertinent to the intended purpose can be equaled or exceeded by those of the listed domestic instrument(s) whether or not it has the same design as the foreign instrument; that the applicant's alleged pertinent specifications should not be considered pertinent within the meaning of § 301.2(s) of the regulations for the intended purposes of the instrument described in response to question 7 of the application; or that the intended purposes for which the instrument is to be used do not qualify the instrument for duty-free consideration under the Act.

(iii) Where the comments regarding paragraphs (a)(4)(i) and (a)(4)(ii) of this section relate to a particular accessory or optional device offered by a domestic manufacturer, cite the type, model or other catalog designation of the accessory device and include the specification therefor in the comments.

(iv) Where the justification for duty-free entry is based on excessive delivery time, show whether:

(A) The domestic instrument is as a general rule either produced for stock, produced on order, or custom-made and;

(B) An instrument or apparatus of equivalent scientific value to the article, for the purposes described in response to question 7, could have been produced and delivered to the applicant within a reasonable time following the receipt of the order.

(v) Indicate whether the applicant afforded the domestic manufacturer an opportunity to furnish an instrument or apparatus of equivalent scientific value to the article for the purposes described in response to question 7 and, if such be the case, whether the applicant issued an invitation to bid that included the technical requirements of the applicant.

(5) *Untimely comments.* Comments must be made on a timely basis to ensure their consideration by the Director and the technical consultants, and to preserve the commenting person's right to appeal the Director's decision. The Director, at his discretion, may take into account factual information contained in untimely comments.

(6) *Provision of general comments.* A domestic manufacturer who does not wish to oppose duty-free entry of a particular application, but who desires to inform the Director of the availability and capabilities of its instrument(s), may at any time supply documentation to the Director without reference to a particular application. Such documentation shall be taken into account by the Director when applications involving comparable foreign instruments are received. The provision of general comments does not preserve the provider's right to appeal the Director's decision.

(b) *Additions to the record.* The Director may solicit from the applicant, from foreign or domestic manufacturers, their agents, or any other person or Government agency considered by the Director to have related competence, any additional information the Director considers necessary to make a decision. The Director may attach conditions and time limitations

upon the provision of such information and may draw appropriate inferences from a person's failure to provide the requested information.

(c) *Advice from technical consultants.* (1) The Director shall consider any written advice from the Secretary of HHS, or his delegate, on the question whether a domestic instrument of equivalent scientific value to the foreign instrument, for the purposes for which the instrument is intended to be used, is being manufactured in the United States.

(2) After the comment period has ended (§ 301.5(a)(3)), the complete application and any comments received and related information are forwarded to appropriate technical consultants for their advice.

(3) The technical consultants relied upon for advice include, but are not limited to, the National Institutes of Health (delegated the function by the Secretary of HHS), the National Institute of Standards and Technology and the National Oceanographic and Atmospheric Administration.

(d) *Criteria for the determinations of the Department of Commerce*—(1) *Scientific equivalency*. (i) The determination of scientific equivalency shall be based on a comparison of the pertinent specifications of the foreign instrument with similar pertinent specifications of comparable domestic instruments (see § 301.2(s) for the definition of pertinent specification). Ordinarily, the Director will consider only those performance characteristics which are ''guaranteed specifications'' within the meaning of § 301.2(r) of this part. In no event, however, shall the Director consider performance capabilities superior to the manufacturer's guaranteed specifications or their equivalent. In making the comparison the Director may consider a reasonable combination of domestic instruments that brings together two or more functions into an integrated unit if the combination of domestic instruments is capable of accomplishing the purposes for which the foreign instrument is intended to be used. If the Director finds that a domestic instrument possesses all of the pertinent specifications of the foreign instrument, he shall find that there is being manufactured in the United States an instrument of equivalent scientific value for such purposes as the foreign instrument is intended to be used. If the Director finds that the foreign instrument possesses one or more pertinent specifications not possessed by the comparable domestic instrument, the Director shall find that there is not being manufactured in the United States an instrument of equivalent scientific value to the foreign instrument for such purposes as the foreign instrument is intended to be used.

(ii) Programs that may be undertaken at some unspecified future date shall not be considered in the Director's comparison. In making the comparison, the Director shall consider only the instrument and accompanying accessories described in the application and determined eligible by the Customs and Border Protection. The Director shall not consider the planned purchase of additional accessories or the planned adaptation of the article at some unspecified future time.

(iii) In order for the Director to make a determination with respect to the ''scientific equivalency'' of the foreign and domestic instruments, the applicant's intended purposes must include either scientific research or science-related educational programs. Instruments used exclusively for nonscientific purposes have no scientific value, thereby precluding the requisite finding by the Director with respect to ''whether an instrument or apparatus of equivalent scientific value to such article, for the purposes for which the article is intended to be used, is being manufactured in the United States.'' In such cases the Director shall deny the application for the reason that the instrument has no scientific value for the purposes for which it is intended to be used. Examples of nonscientific purposes would be the use of an instrument in routine diagnosis or patient care and therapy (as opposed to clinical research); in teaching a nonscientific trade (e.g., printing, shoemaking, metalworking or other types of vocational training); in teaching nonscientific courses (e.g., music, home economics, journalism, drama); in presenting a variety of subjects or merely for presenting coursework, whether or not science related (e.g., video tape editors,

tape recorders, projectors); and in conveying cultural information to the public (e.g., a planetarium in the Smithsonian Institution).

(2) *Manufactured in the United States.* An instrument shall be considered as being manufactured in the United States if it is customarily ''produced for stock,'' ''produced on order'' or ''custom-made'' within the United States. In determining whether a U.S. manufacturer is able and willing to produce an instrument, and have it available without unreasonable delay, the normal commercial practices applicable to the production and delivery of instruments of the same general category shall be taken into account, as well as other factors which in the Director's judgment are reasonable to take into account under the circumstances of a particular case. For example, in determining whether a domestic manufacturer is able to produce a custom-made instrument, the Director may take into account the production experience of the domestic manufacturer including (i) the types, complexity and capabilities of instruments the manufacturer has produced, (ii) the extent of the technological gap between the instrument to which the application relates and the manufacturer's customary products, (iii) the manufacturer's technical skills, (iv) the degree of saturation of the manufacturer's production capability, and (v) the time required by the domestic manufacturer to produce the instrument to the purchaser's specification. Whether or not the domestic manufacturer has field tested or demonstrated the instrument will not, in itself, enter into the decision regarding the manufacturer's ability to manufacture an instrument. Similarly, in determining whether a domestic manufacturer is willing to produce an instrument, the Director may take into account the nature of the bid process, the manufacturer's policy toward manufacture of the product(s) in question, the minimum size of the manufacturer's production runs, whether the manufacturer has bid similar instruments in the past, etc. Also, if a domestic manufacturer was formally requested to bid an instrument, without reference to cost limitations and within a leadtime considered reasonable for the category of instrument involved, and the domestic manufacturer failed formally to respond to the request, for the purposes of this section the domestic manufacturer would not be considered willing to have supplied the instrument.

(3) *Burden of proof.* The burden of proof shall be on the applicant to demonstrate that no instrument of equivalent scientific value for the purposes for which the foreign instrument is to be used is being manufactured in the United States. Evidence of applicant favoritism towards the foreign manufacturer (advantages not extended to domestic firms, such as additional lead time, know-how, methods, data on pertinent specifications or intended uses, results of research or development, tools, jigs, fixtures, parts, materials or test equipment) may be, at the Director's discretion, grounds for rejecting the application.

(4) *Excessive delivery time.* Duty-free entry of the instrument shall be considered justified without regard to whether there is being manufactured in the United States an instrument of equivalent scientific value for the intended purposes if excessive delivery time for the domestic instrument would seriously impair the accomplishment of the applicant's intended purposes. For purposes of this section, (i) except when objective and convincing evidence is presented that, at the time of order, the actual delivery time would significantly exceed quoted delivery time, no claim of excessive delivery time may be made unless the applicant has afforded the domestic manufacturer an opportunity to quote and the delivery time for the domestic instrument exceeds that for the foreign instrument; and (ii) failure by the domestic manufacturer to quote a specific delivery time shall be considered a non-responsive bid (see § 301.5(d)(2)). In determining whether the difference in delivery times cited by the applicant justifies duty-free entry on the basis of excessive delivery time, the Director shall take into account (A) the normal commercial practice applicable to the production of the general category of instrument involved; (B) the efforts made by the applicant to secure delivery of the instruments (both foreign

and domestic) in the shortest possible time; and (C) such other factors as the Director finds relevant under the circumstances of a particular case.

(5) *Processing of applications for components.* (i) The Director may process an application for components which are to be assembled in the United States into an instrument or apparatus which, due to its size, cannot be imported in its assembled state (see § 301.2(k)) as if it were an application for the assembled instrument. A finding by the Director that no equivalent instrument is being manufactured in the United States shall, subject to paragraph (d)(5)(ii) of this section, qualify all the associated components, provided they are entered within the period established by the Director, taking into account both the scientific needs of the importing institution and the potential for development of related domestic manufacturing capacity.

(ii) Notwithstanding a finding under paragraph (d)(5)(i) of this section that no equivalent instrument is being manufactured in the United States, the Director shall disqualify a particular component for duty-free treatment if the Director finds that the component is being manufactured in the United States.

(e) Denial without prejudice to resubmission (DWOP). The Director may, at any stage in the processing of an application by the Department of Commerce, DWOP an application if it contains any deficiency which, in the Director's judgment, prevents a determination on its merits. The Director shall state the deficiencies of the application in the DWOP letter to the applicant.

(1) The applicant has 60 days from the date of the DWOP to correct the cited deficiencies in the application unless a request for an extension of time for submission of the supplemental information has been received by the Director prior to the expiration of the 60-day period and is approved.

(2) If granted, extensions of time will generally be limited to 30 days.

(3) Resubmissions must reference the application number of the earlier submission. The resubmission may be made by letter to the Director. The record of a resubmitted application shall include the original submission on file with the Department. Any new material or information contained in a resubmission, which should address the specific deficiencies cited in the DWOP letter, should be clearly labeled and referenced to the applicable question on the application form. The resubmission must be for the instrument covered by the original application unless the DWOP letter specifies to the contrary. The resubmission shall be subject to the certification made on the original application.

(4) If the applicant fails to resubmit within the applicable time period, the prior DWOP shall, irrespective of the merits of the case, result in a denial of the application.

(5) The Director shall use the postmark date of the fully completed resubmission in determining whether the resubmission was made within the allowable time period. Certified or registered mail, or some other means which can unequivocally establish the date of mailing, is recommended. Resubmission by fax, e-mail or other electronic means is acceptable provided an appropriate return number or address is provided in the transmittal. Resubmissions must clearly indicate the date of transmittal to the Director.

(6) The applicant may, at any time prior to the end of the resubmission period, notify the Director in writing that it does not intend to resubmit the application. Upon such notification, the application will be deemed to have been withdrawn. (See § 301.5(g).)

(7) Information provided in a resubmission that, in the judgment of the Director, contradicts or conflicts with information provided in a prior submission, or is not a reasonable extension of the information contained in the prior submission, shall not be considered in making the decision on an application that has been resubmitted. Accordingly, an applicant may elect to reinforce an orginal submission by elaborating in the resubmission on the description of the purposes contained in a prior submission and may supply additional examples, documentation and/or other clarifying detail, but the applicant shall not introduce new purposes

or other material changes in the nature of the original application. The resubmission should address the specific deficiencies cited in the DWOP. The Director may draw appropriate inferences from the failure of an applicant to attempt to provide the information requested in the DWOP.

(8) In the event an applicant fails to address the noted deficiencies in the response to the DWOP, the Director may deny the application.

(f) *Decisions on applications*. The Director shall prepare a written decision granting or denying each application. However, when he deems appropriate, the Director may issue a consolidated decision on two or more applications. The Director shall promptly forward a copy of the decision to each applicant institution and to the FEDERAL REGISTER for publication.

(g) *Withdrawal of applications*. The Director shall discontinue processing an application withdrawn by the applicant and shall publish notice of such withdrawal in the FEDERAL REGISTER. If at any time while its application is pending before the Director, either during the intital application or resubmission stage, an applicant cancels an order for the instrument to which the application relates or ceases to have a firm intention to order such instrument or apparatus, the institution shall promptly notify the Director. Such notification shall constitute a withdrawal. Withdrawals shall be considered as having been finally denied for purposes of § 301.7(c) below.

(h) Nothing in this subsection shall be construed as limiting the Director's discretion at any stage of processing to insert into the record and consider in making his decision any information in the public domain which he deems relevant.

[47 FR 32517, July 28, 1982; 47 FR 34368, Aug. 9, 1982, as amended at 50 FR 11501, Mar. 22, 1985; 66 FR 28833, May 25, 2001; 74 FR 30463, June 26, 2009]

§ 301.6 Appeals.

(a) An appeal from a final decision made by the Director under § 301.5(f) may be taken in accordance with U.S. Note 6(e), Subchapter X, Chapter 98, HTSUS, only to the U.S. Court of Appeals for the Federal Circuit and only on questions of law, within 20 days after publication of the decision in the FEDERAL REGISTER. If at any time while its application is under consideration by the Court of Appeals on an appeal from a finding by the Director an institution cancels an order for the instrument to which the application relates or ceases to have a firm intention to order such instrument, the institution shall promptly notify the court.

(b) An appeal may be taken by: (1) The institution which makes the application;

(2) A person who, in the proceeding which led to the decision, timely represented to the Secretary of Commerce in writing that he/she manufactures in the United States an instrument of equivalent scientific value for the purposes for which the instrument to which the application relates is intended to be used;

(3) The importer of the instrument, if the instrument to which the application relates has been entered at the time the appeal is taken; or

(4) An agent of any of the foregoing.

(c) Questions regarding appeal procedures should be addressed directly to the U.S. Court of Appeals for the Federal Circuit, Clerk's Office, Washington, DC 20439.

[47 FR 32517, July 28, 1982, as amended at 66 FR 28834, May 25, 2001]

§ 301.7 Final disposition of an application.

(a) Disposition of an application shall be final when 20 days have elapsed after publication of the Director's final decision in the FEDERAL REGISTER and no appeal has been taken pursuant to § 301.6 of these regulations, of if such appeal has been taken, when final judgment is made and entered by the Court.

(b) The Director shall notify the CBP Port when disposition of an application becomes final. If the Director has not been advised of the port of entry of the instrument, or if entry has not been made when the decision on the application becomes final, the Director shall notify the Commissioner of final disposition of the application.

(c) An instrument, the duty-free entry of which has been finally denied,

may not be the subject of a new application from the same institution.

[47 FR 32517, July 28, 1982, as amended at 66 FR 28834, May 25, 2001; 74 FR 30463, June 26, 2009]

§ 301.8 Instructions for entering instruments through Customs and Border Protection under subheading 9810.00.60, HTSUS.

Failure to follow the procedures in this section may disqualify an instrument for duty-free entry notwithstanding an approval of an application on its merits by the Department of Commerce.

(a) *Entry procedures.* (1) An applicant desiring duty-free entry of an instrument may make a claim at the time of entry of the instrument into the Customs territory of the United States (as defined in 19 CFR 101.1) that the instrument is entitled to duty-free classification under subheading 9810.00.60, HTSUS.

(2) If no such claim is made the instrument shall be immediately classified without regard to subheading 9810.00.60, HTSUS , duty will be assessed, and the entry liquidated in the ordinary course.

(3) If a claim is made for duty-free entry under subheading 9810.00.60, HTSUS , the entry shall be accepted without requiring a deposit of estimated duties provided that a copy of the form, stamped by Customs and Border Protection as accepted for transmittal to the Department of Commerce in accordance with § 301.4(b), is filed simultaneously with the entry.

(4) If a claim for duty-free entry under subheading 9810.00.60, HTSUS is made but is not accompanied by a copy of the properly stamped form, a deposit of the estimated duty is required. Before the entry is liquidated, the applicant must file with the CBP Port a properly stamped copy of the application form. In the event that the CBP Port does not receive a copy of the properly stamped application form before liquidation, the instrument shall be classified and liquidated in the ordinary course, without regard for subheading 9810.00.60, HTSUS.

(5) Entry of an instrument after the Director's approval of an application. Whenever an institution defers entry until after it receives a favorable final determination on the application for duty-free entry of the instrument, either by delaying importation or by placing the instrument in a bonded warehouse or foreign trade zone, the importer shall file with the entry of the instrument (i) the stamped copy of the form, (ii) the institution's copy of the favorable final determination and (iii) proof that a bona fide order for the merchandise was placed on or before the 60th day after the favorable decision became final pursuant to § 301.7 of these regulations. Liquidation in such case shall be made under subheading 9810.00.60, HTSUS.

(b) *Normal Customs and Border Protection entry requirements.* In addition to the entry requirements in paragraph (a) of this section, the normal Customs and Border Protection entry requirements must be met. In most of the cases, the value of the merchandise will be such that the formal Customs and Border Protection entry requirements, which generally include the filing of a Customs and Border Protection entry bond, must be complied with. (For further information, see 19 CFR 142.3 and 142.4 (TD–221).)

(c) *Late filing.* Notwithstanding the preceding provisions of this section any document, form, or statement required by regulations in this section to be filed in connection with the entry may be filed at any time before liquidation of the entry becomes final, provided that failure to file at the time of entry or within the period for which a bond was filed for its production was not due to willful negligence or fraudulent intent. Liquidation of any entry becomes conclusive upon all persons if the liquidation is not protested in writing in accordance with 19 CFR part 174, or the necessary document substantiating duty-free entry is not produced in accordance with 19 CFR 10.112. Upon notice of such final and conclusive liquidation, the Department of Commerce will cease the processing of any pending application for duty-free entry of the subject article. In all other respects, the provisions of this section do not apply to Department of Commerce responsibilities and procedures for processing applications pursuant to other sections of these regulations.

(d) *Payment of duties*. The importer of record will be billed for payment of duties when Customs and Border Protection determines that such payment is due. If a refund of a deposit made pursuant to paragraph (a)(4) of this section is due, the importer should contact Customs and Border Protection officials at the port of entry, not the Department of Commerce.

[47 FR 32517, July 28, 1982, as amended at 66 FR 28834, May 25, 2001; 74 FR 30463, June 26, 2009]

§ 301.9 Uses and disposition of instruments entered under subheading 9810.00.60, HTSUS.

(a) An instrument granted duty-free entry may be transferred from the applicant institution to another eligible institution provided the receiving institution agrees not to use the instrument for commercial purposes within 5 years of the date of entry of the instrument. In such cases title to the instrument must be transferred directly between the institutions involved. An institution transferring a foreign instrument entered under subheading 9810.00.60, HTSUS within 5 years of its entry shall so inform the CBP Port in writing and shall include the following information:

(1) The name and address of the transferring institution.

(2) The name and address of the transferee.

(3) The date of transfer.

(4) A detailed description of the instrument.

(5) The serial number of the instrument and any accompanying accessories.

(6) The entry number, date of entry, and port of entry of the instrument.

(b) Whenever the circumstances warrant, and occasionally in any event, the fact of continued use for 5 years for noncommercial purposes by the applicant institution shall be verified by Customs and Border Protection.

(c) If an instrument is transferred in a manner other than specified above or is used for commercial purposes within 5 years of entry, the institution for which such instrument was entered shall promptly notify the Customs and Border Protection officials at the Port and shall be liable for the payment of duty in an amount determined on the basis of its condition as imported and the rate applicable to it.

[47 FR 32517, July 28, 1982, as amended at 66 FR 28834, May 25, 2001; 74 FR 30463, June 26, 2009]

§ 301.10 Importation of repair components and maintenance tools under HTSUS subheadings 9810.00.65 and 9810.00.67 for instruments previously the subject of an entry liquidated under subheading 9810.00.60, HTSUS.

(a) An institution owning an instrument that was the subject of an entry liquidated duty-free under subheading 9810.00.60, HTSUS, that wishes to enter repair components or maintenance tools for that instrument may do so without regard to the application procedures required for entry under subheading 9810.00.60, HTSUS. The institution must certify to Customs and Border Protection officials at the port of entry that such components are repair components for that instrument under subheading 9810.00.65, HTSUS, or that the tools are maintenance tools necessary for the repair, checking, gauging or maintenance of that instrument under subheading 9810.00.67, HTSUS.

(b) Instruments entered under subheading 9810.00.60, HTSUS, and subsequently returned to the foreign manufacturer for repair, replacement or modification are not covered by subheading 9810.00.65 or 9810.00.67, HTSUS, although they may, upon return to the United States, be eligible for a reduced duty payment under subheading 9802.00.40 or 9802.00.50, HTSUS (covering articles exported for repairs or alterations) or may be made the subject of a new application under subheading 9810.00.60, HTSUS.

[66 FR 28834, May 25, 2001, as amended at 74 FR 30463, June 26, 2009]

PART 302 [RESERVED]

PART 303—WATCHES, WATCH MOVEMENTS AND JEWELRY PROGRAM

Subpart A—Watches and Watch Movements

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AUTHORITY: Pub. L. 97–446, 96 Stat. 2331 (19 U.S.C. 1202, note); Pub. L. 103–465, 108 Stat. 4991; Pub. L. 94–241, 90 Stat. 263 (48 U.S.C. 1681, note); Pub. L. 106–36, 113 Stat. 167; Pub. L. 108–429, 118 Stat. 2582.

SOURCE: 49 FR 17740, Apr. 25, 1984, unless otherwise noted.

EDITORIAL NOTE: Nomenclature changes to part 303 appear at 68 FR 56555, Oct. 1, 2003.

Subpart A—Watches and Watch Movements

§ 303.1 Purpose.

(a) This part implements the responsibilities of the Secretaries of Commerce and the Interior (''the Secretaries'') under Pub. L. 97–446, enacted on 12 January 1983, which substantially amended Pub. L. 89–805, enacted 10 November 1966, amended by Pub. L. 94–88, enacted 8 August 1975, and amended by Pub. L. 94–241, enacted 24 March 1976, amended by Public Law 103–465, enacted 8 December 1994 and amended by Public Law 108–429 enacted 3 December 2004. The law provides for exemption from duty of territorial watches and watch movements without regard to the value of the foreign materials they contain, if they conform with the provisions of U.S. Legal Note 5 to Chapter 91 of the Harmonized Tariff Schedule of the United States (''91/5''). 91/5 denies this benefit to articles containing any material which is the product of any country with respect to which Column 2 rates of duty apply; authorizes the Secretaries to establish the total quantity of such articles, provided that the quantity so established does not exceed 10,000,000 units or one-ninth of apparent domestic consumption, whichever is greater, and provided also that the quantity is not decreased by more than ten percent nor increased by more than twenty percent (or to more than 7,000,000 units, whichever is greater) of the quantity established in the previous year.

(b) The law directs the International Trade Commission to determine apparent domestic consumption for the preceding calendar year in the first year U.S. insular imports of watches and watch movements exceed 9,000,000 units. 91/5 authorizes the Secretaries to establish territorial shares of the overall duty-exemption within specified limits; and provides for the annual allocation of the duty-exemption among insular watch producers equitably and on the basis of allocation criteria, including minimum assembly requirements, that will reasonably maximize the net amount of direct economic benefits to the insular possessions.

(c) The amended law also provides for the issuance to producers of certificates entitling the holder (or any transferee) to obtain duty refunds on any article imported into the customs territory of the United States duty paid except for any article containing a material which is the product of a country to which column 2 rates of duty apply. The amounts of these certificates may not exceed specified percentages of the producers' verified

creditable wages in the insular possessions (90% of wages paid for the production of the first 300,000 units and declining percentages, established by the Secretaries, of wages paid for incremental production up to 750,000 units by each producer) nor an aggregate annual amount for all certificates exceeding $5,000,000 adjusted for growth by the ratio of the previous year's gross national product to the gross national product in 1982. Refund requests are governed by regulations issued by the Department of Homeland Security. The Secretaries are authorized to issue regulations necessary to carry out their duties under additional U.S. note 5 to chapter 91 of the Harmonized Tariff Schedule of the United States, HTSUS and may cancel or restrict the license or certificate of any insular manufacturer found violating the regulations.

[49 FR 17740, Apr. 25, 1984, as amended at 50 FR 43568, Oct. 28, 1985; 53 FR 52994, Dec. 30, 1988; 61 FR 55884, Oct. 30, 1996; 70 FR 67647, Nov. 8, 2005; 72 FR 16713, Apr. 5, 2007]

§ 303.2 Definitions and forms.

(a) *Definitions*. Unless the context indicates otherwise:

(1) *Act* means Pub. L. 97–446, enacted January 12, 1983 (19 U.S.C. 1202), 96 Stat. 2329, as amended at Pub. L. 103–465, enacted on December 8, 1994, 108 Stat. 4991, Public Law 108–429, enacted on 3 December 2004, 118 Stat. 2582.

(2) *Secretaries* means the Secretary of Commerce and the Secretary of Interior or their delegates, acting jointly.

(3) *Director* means the Director of the Statutory Import Programs Staff, International Trade Administration, U.S. Department of Commerce.

(4) *Sale or tranfer of a business* means the sale or transfer of control, whether temporary or permanent, over a firm to which a duty-exemption has been allocated, to any other firm, corporation, partnership, person or other legal entity by any means whatsoever, including, but not limited to, merger and transfer of stock, assets or voting trusts.

(5) New firm is a watch firm not affiliated through ownership or control with any other watch duty-refund recipient. In assessing whether persons or parties are affiliated, the Secretaries will consider the following factors, among others: stock ownership; corporate or family groupings; franchise or joint venture agreements; debt financing; and close supplier relationships. The Secretaries may not find that control exists on the basis of these factors unless the relationship has the potential to affect decisions concerning production, pricing, or cost. Also, no watch duty-refund recipient may own or control more than one jewelry duty-refund recipient. A new entrant is a new watch firm which has received an allocation.

(6) *Producer* means a duty-exemption holder which has maintained its eligibility for further allocations by complying with these regulations.

(7) *Established industry* means all producers, including new entrants, that have maintained their eligibility for further allocations.

(8) *Territories, territorial, and insular possessions* refer to the insular possessions of the United States (*i.e.*, the U.S. Virgin Islands, Guam, and American Samoa and the Northern Mariana Islands).

(9) *Duty-exemption* refers to the authorization of duty-free entry of a specified number of watches and watch movements into the Customs Territory of the United States.

(10) *Total annual duty-exemption* refers to the entire quantity of watches or watch movements which may enter duty-free into the customs territory of the United States from the territories under 91/5 in a calendar year, as determined by the Secretaries or by the International Trade Commission in accordance with the Act.

(11) *Territorial distribution* refers to the apportionment by the Secretaries of the total annual duty-exemption among the separate territories; *territorial share* means the portion consigned to each territory by this apportionment.

(12) *Allocation* refers to the distribution of all parts of a territorial share, or a portion thereof, among the several producers in a territory.

(13) Creditable wages and associated, creditable fringe benefits and creditable duty differentials eligible for the duty refund benefit include, but are not limited to, the following:

(i) Wages up to an amount equal to 65 percent of the contribution and benefit base for Social Security, as defined in the Social Security Act for the year in which wages were earned, paid to permanent residents of the insular possessions employed in a firm's 91/5 watch and watch movement program.

(A) Wages paid for the repair of watches up to an amount equal to 85 percent of the firm's total creditable wages.

(B) Wages paid to watch and watch movement assembly workers involved in the complete assembly of watches and watch movements which have entered the United States duty-free and have complied with the laws and regulations governing the program.

(C) Wages paid to watch and watch movement assembly workers involved in the complete assembly of watches, excluding the movement, only in situations where the desired movement can not be purchased unassembled and the producer has documentation establishing this.

(D) Wages paid to those persons engaged in the day-to-day assembly operations on the premises of the company office, wages paid to administrative employees working on the premises of the company office, wages paid to security employees and wages paid to servicing and maintenance employees if these services are integral to the assembly and manufacturing operations and the employees are working on the premises of the company office.

(E) Wages paid to persons engaged in both creditable and non-creditable assembly and repair operations may be credited proportionally provided the firm maintains production, shipping and payroll records adequate for the Departments' verification of the creditable portion.

(F) Wages paid to new permanent residents who have met the requirements of permanent residency in accordance with the Departments' regulations, along with meeting all other creditable wage requirements of the regulations, which must be documented and verified to the satisfaction of the Secretaries.

(ii) The combined creditable amount of individual health and life insurance per year, for each full-time permanent resident employee who works on the premises of the company office and whose wages qualify as creditable, may not exceed 130 percent of the ''weighted average'' yearly federal employee health insurance, which is calculated from the individual health plans weighted by the number of individual contracts in each plan. The yearly amount is calculated by the Office of Personnel Management and includes the ''weighted average'' of all individual health insurance costs for federal employees throughout the United States. The maximum life insurance allowed within this combined amount is $50,000 for each employee. Only during the time employees are earning creditable wages are they entitled to health and life insurance duty refund benefits under the program.

(A) The combined creditable amount of family health and life insurance per year, for each full-time permanent resident employee who works on the premises of the company office and whose wages qualify as creditable, may not exceed 150 percent of the ''weighted average'' yearly federal employee health insurance, which is calculated from the family health plans weighted by the number of family contracts in each plan. The yearly amount is calculated by the Office of Personnel Management and includes the ''weighted average'' of all family health insurance costs for federal employees throughout the United States. The maximum life insurance allowed within this combined amount is $50,000 for each employee. Only during the time employees are earning creditable wages are they entitled to health and life insurance duty refund benefits under the program.

(B) The creditable pension benefit, for each full-time permanent resident employee who works on the premises of the company office and whose wages qualify as creditable, is up to 3 percent of the employee's wages unless the employee's wages exceed the maximum annual creditable wage allowed under the program (see paragraph (a)(13)(i) of this section). An employee earning more than the maximum creditable wage allowed under the program will be eligible for only 3 percent of the maximum creditable wage. Only during

the time employees are earning creditable wages are they entitled to pension duty refund benefits under the program.

(iii) If tariffs on watches and watch movements are reduced, then companies would be required to provide the annual aggregate data by individual HTSUS watch tariff numbers for the following components contained therein: the quantity and value of watch cases, the quantity of movements, the quantity and value of each type of strap, bracelet or band, and the quantity and value of batteries shipped free of duty into the United States. If discrete watch movements are shipped free of duty into the United States, then the annual aggregate quantity by individual HTSUS movement tariff numbers would also be required along with the value of each battery if it is contained within. These data would be used to calculate the annual duty rate before each HTSUS tariff reduction, and the annual duty rate after the HTSUS tariff reduction. The amount of the difference would be creditable toward the duty refund. The tariff information would only be collected and used in the calculation of the annual duty-refund certificate and would not be used in the calculation of the mid-year duty-refund.

(14) Non-creditable wages and associated non-creditable fringe benefits ineligible for the duty refund benefit include, but are not limited to, the following:

(i) Wages over 65 percent of the contribution and benefit base for Social Security, as defined in the Social Security Act for the year in which wages were earned, paid to permanent residents of the territories employed in a firm's 91/5 watch and watch movement program.

(A) Wages paid for the repair of watches in an amount over 85 percent of the firm's total creditable wages.

(B) Wages paid for the assembly of watches and watch movements which are shipped outside the customs territory of the United States; wages paid for the assembly of watches and watch movements that do not meet the regulatory assembly requirements; or wages paid for the assembly of watches or watch movements that contain HTSUS column 2 components.

(C) Wages paid for the complete assembly of watches, excluding the movement, when the desired movement can be purchased unassembled, if the producer does not have adequate documentation, demonstrating to the satisfaction of the Secretaries, that the movement could not be purchased unassembled whether or not it is entering the United States.

(D) Wages paid to persons not engaged in the day-to-day assembly operations on the premises of the company office; wages paid to any outside consultants; wages paid to outside the office personnel, including but not limited to, lawyers, gardeners, construction workers, and accountants; wages paid to employees not working on the premises of the company office; and wages paid to employees who do not qualify as permanent residents in accordance with the Departments' regulations.

(E) Wages paid to persons engaged in both creditable and non-creditable assembly and repair operations if the producer does not maintain production, shipping and payroll records adequate for the Departments' verification of the creditable portion.

(ii) Any costs, for the year in which the wages were paid, of the combined creditable amount of individual health and life insurance for employees over 130 percent of the ''weighted average'' yearly individual health insurance costs for all federal employees. The cost of any life insurance over the $50,000 limit for each employee. Any health and life insurance costs during the time an employee is not earning creditable wages.

(A) Any costs, for the year in which the wages were paid, of the combined creditable amount of family health and life insurance for employees over 150 percent of the ''weighted average'' yearly family health insurance costs for all federal employee. The cost of any life insurance over the $50,000 limit for each employee. Any health and life insurance costs during the time an employee is not earning creditable wages.

(B) Any pension benefits that were not based on associated creditable wages. The cost of any pension benefit

per employee over 3 percent of the employee's creditable wages unless the employee's wages exceed the maximum annual creditable annual maximum creditable wage allowed under the program (see paragraph (a)(13)(i) of this section). Employees earning over the maximum creditable wage allowed under the program would have a creditable annual pension benefit of up to 3 percent of the maximum creditable wage and wages over 3 percent of the maximum creditable wage would not be creditable.

(15) *Non-91/5 watches and watch movements* include, but are not limited to, watches and movements which are liquidated as dutiable by the Bureau of Customs and Border Protection but do not include, for purposes of the duty refund, watches that are completely assembled in the insular possessions, with the exception of a desired movement if the movement cannot be purchased in an unassembled condition; contains any material which is the product of any country with respect to which Column 2 rates of duty apply; are ineligible for duty-free treatment pursuant to law or regulation; or are units the assembly of which the Departments have determined not to involve substantial and meaningful work in the territories (as elsewhere defined in these regulations).

(16) *Discrete movements and components* means screws, parts, components and subassemblies not assembled together with another part, component or subassembly at the time of importation into the territory. (A mainplate containing set jewels or shock devices, together with other parts, would be considered a single discrete component, as would a barrel bridge subassembly.)

(17) *Permanent resident* means a person with one residence which is in the insular possessions or a person with one or more residences outside the insular possessions who meets criteria that include maintaining his or her domicile in the insular possessions, residing (*i.e.*, be physically present for at least 183 days within a continuous 365 day period) and working in the territory at a program company, and maintaining his or her primary office for day-to-day work in the insular possessions.

(b) *Forms*—(1) *ITA–334P ''Application for License to Enter Watches and Watch Movements into the Customs Territory of the United States.''* This form must be completed annually by all producers desiring to receive an annual allocation. It is also used, with appropriate special instructions for its completion, by new firms applying for duty-exemptions and by producers who wish to receive the duty refund in installments on a biannual basis.

(2) *ITA–333 ''License to Enter Watches and Watch Movements into the Customs Territory of the United States.''* This form is issued by the Director to producers who have received an allocation and constitutes authorization for issuing specific shipment permits by the territorial governments. It is also used to record the balance of a producer's remaining duty-exemptions after each shipment permit is issued.

(3) *ITA–340 ''Permit to Enter Watches and Watch Movements into the Customs Territory of the United States.''* This form may be obtained, by producers holding a valid license, from the territorial government or may be produced by the licensee in an approved computerized format or any other medium or format approved by the Departments of Commerce and the Interior. The completed form authorizes duty-free entry of a specified amount of watches or watch movements at a specified U.S. Customs port.

(4) *ITA–360P ''Certificate of Entitlement to Secure the Refund of Duties on Articles that Entered the Customs Territory of The United State Duty Paid.''* This document authorizes an insular watch producer to request the refund of duties on imports of articles that entered the customs territory of the United States duty paid, up to the specified value of the certificate. Certificates may be used to obtain duty refunds only when presented with a properly executed Form ITA–361P.

(5) *ITA–361P ''Request for Refund of Duties on Articles that Entered the Customs Territory of the United States Duty Paid.''* This form must be completed to obtain the refund of duties authorized by the Director through Form ITA–

360P. After authentication by the Department of Commerce, it may be used for the refund of duties on items which were entered into the customs territory of the United States duty paid during a specified time period. Copies of the appropriate Customs entries must be provided with this form to establish a basis for issuing the claimed amounts. The forms may also be used to transfer all or part of the producer's entitlement to another party. (See § 303.12.)

[49 FR 17740, Apr. 25, 1984, as amended at 50 FR 43568, Oct. 28, 1985; 53 FR 52994, Dec. 30, 1988; 56 FR 9621, Mar. 7, 1991; 61 FR 55884, 55885, Oct. 30, 1996; 65 FR 8049, Feb. 17, 2000; 66 FR 34812, July 2, 2001; 67 FR 77408, Dec. 18, 2002; 68 FR 56555, Oct. 1, 2003; 70 FR 67647, Nov. 8, 2005; 72 FR 16714, Apr. 5, 2007; 73 FR 62881, Oct. 22, 2008]

§ 303.3 Determination of the total annual duty-exemption.

(a) *Procedure for determination.* If, after considering the productive capacity of the territorial watch industry and the economic interests of the territories, the Secretaries determine that the amount of the total annual duty-exemption, or the territorial shares of the total amount, should be changed, they shall publish in the FEDERAL REGISTER a proposed limit on the quantity of watch units which may enter duty-free into the customs territory of the United States and proposed territorial shares thereof and, after considering comments, establish the limit and shares by FEDERAL REGISTER notice. If the Secretaries take no action under this section, they shall make the allocations in accordance with the limit and shares last established by this procedure.

(b) *Standards for determination.* (1) Notwithstanding paragraph (b)(2) of this section, the limit established for any year may be 7,000,000 units if the limit established for the preceding year was a smaller amount.

(2) Subject to paragraph (c) of this section, the total annual duty-exemption shall not be decreased by more than 10% of the quantity established for the preceding calendar year, or increased, if the resultant total is larger than 7,000,000, by more than 20% of the quantity established for the calendar year immediately preceding.

(3) The Secretaries shall determine the limit after considering the interests of the territories; the domestic or international trade policy objectives of the United States; the need to maintain the competitive nature of the territorial industry; the total contribution of the industry to the economic well-being of the territories; and the territorial industry's utilization of the total duty-exemption established in the preceding year.

(c) *Determinations based on consumption.* (1) The Secretaries shall notify the International Trade Commission whenever they have reason to believe duty-free watch imports from the territories will exceed 9,000,000 units, or whenever they make a preliminary determination that the total annual duty-exemption should exceed 10,000,000 units.

(2) In addition to the limitations in paragraph (b) of this section, the Secretaries shall not establish a limit exceeding one-ninth of apparent domestic consumption if such consumption, as determined by International Trade Commission, exceeds 90 million units.

[49 FR 17740, Apr. 25, 1984, as amended at 50 FR 7170, Feb. 21, 1985; 50 FR 43568, Oct. 28, 1985; 53 FR 52994, Dec. 30, 1988]

§ 303.4 Determination of territorial distribution.

(a) *Procedure for determination.* The Secretaries shall determine the territorial shares concurrently with their determination of the total annual duty exemption, and in the same manner (see § 303.3, above).

(b) *Standards for determination*—(1) *Limitations.* A territorial share may not be reduced by more than 500,000 units in any calendar year. No territorial share shall be less than 500,000 units.

(2) *Criteria for setting precise quantities.* The Secretaries shall determine the precise quantities after considering, *inter alia*, the territorial capacity to produce and ship watch units. The Secretaries shall further bear in mind the aggregate benefits to the territories, such as creditable wages paid, creditable wages per unit exported, and corporate income tax payments.

(3) *Limitations on reduction of share.* The Secretaries shall not reduce a territory's share if its producers use 85%

or more of the quantity distributed to that territory in the immediately preceding year, except in the case of a major increase or decrease in the number of producers in a territory or if they believe that a territorial industry will decrease production by more than 15% from the total of the preceding year.

(4) *Standby redistribution authority.* The Secretaries may redistribute territorial shares if such action is warranted by circumstances unforeseen at the time of the initial distributions, such as that a territory will use less than 80% of its total by the end of a calendar year, or if a redistribution is necessary to maintain the competitive nature of the territorial industries.

[49 FR 17740, Apr. 25, 1984, as amended at 50 FR 7170, Feb. 21, 1985]

§ 303.5 Application for annual allocations of duty-exemptions and duty-refunds.

(a) Application forms (ITA–334P) shall be furnished to producers by January 1, and must be completed and returned to the Director no later than January 31, of each calendar year.

(b) All data supplied are subject to verification by the Secretaries and no allocation or duty-refund certificate shall be made to producer until the Secretaries are satisfied that the data are accurate. To verify the data, representatives of the Secretaries shall have access to relevant company records including:

(1) Work sheets used to answer all questions on the application form;

(2) Original records from which such data are derived;

(3) Records pertaining to ownership and control of the company and to the satisfaction of eligibility requirements of duty-free treatment of its product by the Bureau of Customs and Border Protection;

(4) Records pertaining to corporate income taxes, gross receipts taxes and excise taxes paid by each producer in the territories on the basis of which a portion of each producer's annual allocation is or may be predicated;

(5) Customs, bank, payroll, including time cards, production records, and all shipping records including the importer of record number and proof of residency, as requested;

(6) Records on purchases of components, including documentation on the purchase of any preassembled movements, which demonstrate that such movements could not have been purchased from the vendor in an unassembled condition, and records on the sales of insular watches and movements, including proof of payment; and

(7) Any other records in the possession of the parent or affiliated companies outside the territory pertaining to any aspect of the producer's 91/5 watch assembly operation.

(8) All records pertaining to health insurance, life insurance and pension benefits for each employee; and

(9) If HTSUS tariffs on watches and watch movements are reduced, records of the annual aggregate data by individual HTSUS watch tariff numbers for the following components contained therein would be required: the quantity and value of watch cases; the quantity of movements; the quantity and value of each type of strap, bracelet or band; and the quantity and value of batteries shipped free of duty into the United States. In addition, if applicable, records of the annual aggregate quantity of discrete watch movements shipped free of duty into the United States by HTSUS tariff number.

(c) Data verification shall be performed in the territories, unless other arrangements satisfactory to the Departments are made in advance, by the Secretaries' representatives by the end of February of each calendar year. It is the responsibility of each program producer to make the appropriate data available to the Departments' officials for the calendar year for which the annual verification is being performed and no further data, from the calendar year for which the audit is being completed, will be considered for benefits at any time after the audit has been completed. In the event of discrepancies between the application and substantiating data before the audit is complete, the Secretaries shall determine which data will be used in the calculation of the duty refund and allocations.

(d) Records subject to the requirements of paragraph (b), above, shall be

retained for a period of two years following their creation.

[49 FR 17740, Apr. 25, 1984, as amended at 50 FR 43568, Oct. 28, 1985; 53 FR 52994, Dec. 30, 1988; 68 FR 56556, Oct. 1, 2003; 70 FR 67648, Nov. 8, 2005; 72 FR 16714, Apr. 5, 2007]

§ 303.6 Allocation and reallocation of exemptions among producers.

(a) *Interim allocations.* As soon as practicable after January 1 of each year the Secretaries shall make an interim allocation to each producer equaling 70% of the number of watch units it has entered duty-free into the customs territory of the United States during the first eight months of the preceding calendar year, or any lesser amount requested in writing by the producer. The Secretaries may also issue a lesser amount if, in their judgment, the producer might otherwise receive an interim allocation in an amount greater than the producer's probable annual allocation. In calculating the interim allocations, the Director shall count only duty-free watches and watch movements verified by the Bureau of Customs and Border Protection, or verified by other means satisfctory to the Secretaries, as having been entered on or before August 31 of the preceding year. Interim allocations shall not be published.

(b) *Annual allocations.* (1) By March 1 of each year the Secretaries shall make annual allocations to the producers in accordance with the allocation formula based on data supplied in their annual application (Form ITA–334P) and verified by the Secretaries.

(2) The excess of a producer's duty-exemption earned under the allocation criteria over the amount formally requested by the producer shall be considered to have been relinquished voluntarily (see paragraph (f) below). A producer's request may be modified by written communication received by the Secretaries by February 28, or, at the discretion of the Secretaries, before the annual allocations are made. An allocation notice shall be published in the FEDERAL REGISTER.

(c) *Supplemental allocations.* At the request of a producer, the Secretaries may supplement a producer's interim allocation if the Secretaries determine the producer's interim allocation will be used before the Secretaries can issue the annual allocation. Allocations to supplement a producer's annual allocation shall be made under the reallocation provisions prescribed below.

(d) *Allocations to new entrants.* In making interim and annual allocations to producers selected the preceding year as new entrants, the Secretaries shall take into account that such producers will not have had a full year's operation as a basis for computation of its duty-exemption. The Secretaries may make an interim or annual allocation to a new entrant even if the firm did not operate during the preceding calendar year.

(e) *Special allocations.* A producer may request a special allocation if unusual circumstances kept it from making duty-free shipments at a level comparable with its past record. In considering such requests, the Secretaries shall take into account the firm's proposed assembly operations; its record in contributing to the territorial economy; and its intentions and capacity to make meaningful contributions to the territory. They shall also first determine that the amount of the special allocation requested will not significantly affect the amounts allocated to other producers pursuant to § 303.6(b)(1).

(f) *Reallocations.* Duty-exemptions may become available for reallocation as a result of cancellation or reduction for cause, voluntary relinquishment or nonplacement of duty-exemption set aside for new entrants. At the request of a producer, the Secretaries may reallocate such duty-exemptions among the remaining producers who can use additional quantities in a manner judged best for the economy of the territories. The Secretaries shall consider such factors as the wage and income tax contributions of the respective producers during the preceding year and the nature of the producer's present assembly operations. In addition, the Secretaries may consider other factors which, in their judgment, are relevant to determining that applications from new firms, in lieu of reallocations, should be considered for part or all of unused portions of the total duty exemptions. Such factors may include:

(1) The ability of the established industry to use the duty-exemption;

(2) Whether the duty-exemption is sufficient to support new entrant operations;

(3) The impact upon the established industry if new entrants are selected, particularly with respect to the effect on local employment, tax contributions to the territorial government, and the ability of the established industry to maintain satisfactory production levels; and

(4) Whether additional new entrants offer the best prospect for adding economic benefits to the territory.

(g) Section 303.14 of this part contains the criteria and formulae used by the Secretaries in calculating each watch producer's annual watch duty-exemption allocation, and other special rules or provisions the Secretaries may periodically adopt to carry out their responsibilities in a timely manner while taking into account changing circumstances. References to duty-exemptions, unless otherwise indicated, are to the amount available for reallocation in the current calendar year. Specifications of or references to data or bases used in the calculation of current year allocations (e.g., economic contributions and shipments) are, unless indicated otherwise, those which were generated in the previous year.

(h) The Secretaries may propose changes to § 303.14 at any time they consider it necessary to fulfill their responsibilities. Normally, such changes will be proposed towards the end of each calendar year. Interested parties shall be given an opportunity to submit written comments on proposed changes.

[49 FR 17740, Apr. 25, 1984, as amended at 50 FR 43568, Oct. 28, 1985; 61 FR 55885, Oct. 30, 1996; 63 FR 5888, Feb. 5, 1998]

§ 303.7 Issuance of licenses and shipment permits.

(a) *Issuance of Licenses (ITA–333)*. (1) Concurrently with annual allocations under § 303.5 the Director shall issue a non-transferable license (Form ITA–333) to each producer. The Director shall also issue a replacement license if a producer's allocation is reduced pursuant to § 303.6.

(2) Annual duty-exemption licenses shall be for only that portion of a producer's annual duty-exemption not previously licensed.

(3) If a producer's duty-exemption has been reduced, the Director shall not issue a replacement license for the reduced amount until the producer's previous license has been received for cancellation by the Director.

(4) A producer's license shall be used in their entirety, except when they expire or are cancelled, in order of their date of issuance, i.e., an interim license must be completely used before shipment permits can be issued against an interim supplemental license.

(5) Outstanding licenses issued by the Director automatically expire at midnight, December 31, of each calendar year. No unused allocation of duty-exemption may be carried over into the subsequent calendar year.

(6) The Director shall ensure that all licenses issued are conspicuously marked to show the type of license issued, the identity of the producer, and the year for which the license is valid. All licenses shall bear the signature of the Director.

(7) Each producer is responsible for the security of its licenses. The loss of a license shall be reported immediately to the Director. Defacing, tampering with, and unauthorized use of a license are forbidden.

(b) *Shipment Permit Requirements (ITA–340)*. (1) Producers may obtain shipment permits from the territorial government officials designated by the Governor. Permits may also be produced in any computerized or other format or medium approved by the Departments. The permit is for use against a producer's valid duty-exemption license and a permit must be completed for every duty-free shipment.

(2) Each permit must specify the license and permit number, the number of watches and watch movements included in the shipment, the unused balance remaining on the producer's license, pertinent shipping information and must have the certification statement signed by an official of the licensee's company. A copy of the completed permit must be sent electronically or taken to the designated territorial government officials, no later than the day

of shipment, for confirmation that the producer's duty-exemption license has not been exceeded and that the permit is properly completed.

(3) The permit (form ITA–340) shall be filed with Customs along with the other required entry documents to receive duty-free treatment unless the importer or its representative clears the documentation through Customs' automated broker interface. Entries made electronically do not require the submission of a permit to Customs, but the shipment data must be maintained as part of a producer's recordkeeping responsibilities for the period prescribed by Customs' recordkeeping regulations. Bureau of Customs and Border Protection Import Specialists may request the documentation they deem appropriate to substantiate claims for duty-free treatment, allowing a reasonable amount of time for the importer to produce the permit.

[49 FR 17740, Apr. 25, 1984, as amended at 50 FR 43568, Oct. 28, 1985; 61 FR 55885, Oct. 30, 1996]

§ 303.8 Maintenance of duty-exemption entitlements.

(a) The Secretaries may order a producer to show cause within 30 days of receipt of the order why the duty-exemption to which the firm would otherwise be entitled should not be cancelled, in whole or in part, if:

(1) At any time after June 30 of the calendar year:

(i) A producer's assembly and shipment record provides a reasonable basis to conclude that the producer will use less than 80 percent of its total allocation by the end of the calendar year, *and*

(ii) The producer refuses a request from the Departments to relinquish that portion of its allocation which they conclude will not be used; *or*

(2) A producer fails to satisfy or fulfill any term, condition or representation, whether undertaken by itself or prescribed by the Departments, upon which receipt of allocation has been predicated or upon which the Departments have relied in connection with the sale or transfer of a business together with its allocation; *or*

(3) A producer, in the judgment of the Secretaries, has failed to make a meaningful contribution to the territory for a period of two or more consecutive calendar years, when compared with the performance of the duty-free watch assembly industry in the territory as a whole. This comparison shall include the producer's quantitative use of its allocations, amount of direct labor employed in the assembly of watches and watch movements, and the net amount of corporate income taxes paid to the government of the territory. If the producer fails to satisfy the Secretaries as to why such action should not be taken, the firm's allocation shall be reduced or cancelled, whichever is appropriate under the show-cause order. The eligibility of a firm whose allocation has been cancelled to receive further allocations may also be terminated.

(b) The Secretaries may also issue a show-cause order to reduce or cancel a producer's allocation or production incentive certificate (see § 303.12, below), as appropriate, or to declare the producer ineligible to receive an allocation or certificate if it violates any regulation in this part, uses a form, license, permit, or certificate in an unauthorized manner, or fails to provide information or data required by these regulations or requested by the Secretaries or their delegates in the performance of their responsibilities.

(c) If a firm's allocation is reduced or cancelled, or if a firm voluntarily relinquishes a part of its allocation, the Secretaries may:

(1) Reallocate the allocation involved among the remaining producers in a manner best suited to contribute to the economy of the territory;

(2) Reallocate the allocation or part thereof to a new entrant applicant; or

(3) Do neither of the above if deemed in the best interest of the territories and the established industry.

[49 FR 17740, Apr. 25, 1984, as amended at 61 FR 55885, Oct. 31, 1996]

§ 303.9 Restrictions on the transfer of duty-exemptions.

(a) The sale or transfer of a duty-exemption from one firm to another shall not be permitted.

(b) The sale or transfer of a business together with its duty-exemption shall

be permitted with prior written notification to the Departments. Such notification shall be accompanied by certifications and representations, as appropriate, that:

(1) If the transferee is a subsidiary of or in any way affiliated with any other company engaged in the production of watch movements components being offered for sale to any territorial producer, the related company or companies will continue to offer such watch and watch movement components on equal terms and conditions to all willing buyers and shall not engage in any practice, in regard to the sale of components, that competitively disadvantages the non-affiliated territorial producers *vis-a-vis* the territorial subsidiary;

(2) The sale or transfer price for the business together with its duty-exemption does not include the capitalization of the duty-exemption *per se;*

(3) The transferee is neither directly or indirectly affiliated with any other territorial duty-exemption holder in any territory;

(4) The transferee will not modify the watch assembly operations of the duty-exemption firm in a manner that will significantly diminish its economic contributions to the territory.

(c) At the request of the Departments, the transferee shall permit representatives of the Departments to inspect whatever records are necessary to establish to their satisfaction that the certifications and representations contained in paragraph (b) of this section have been or are being met.

(d) Any transferee who is either unwilling or unable to make the certifications and representations specified in paragraph (b) of this section shall secure the Departments' approval in advance of the sale or transfer of the business together with its duty-exemption. The request for approval shall specify which of the certifications specified in paragraph (b) of this section the firm is unable or unwilling to make, and give reasons why such fact should not constitute a basis for the Departments' disapproval of the sale or transfer.

[49 FR 17740, Apr. 25, 1984, as amended at 50 FR 43568, Oct. 28, 1985]

§§ 303.10–303.11 [Reserved]

§ 303.12 Issuance and use of production incentive certificates.

(a) *Issuance of certificates.* (1) The total annual amount of the Certificate of Entitlement, Form ITA–360, may be divided and issued on a biannual basis. The first portion of the total annual certificate amount will be based on reported duty-free shipments and creditable wages, determined from the wages as reported on the employer's first two quarterly federal tax returns (941–SS), paid during the first six months of the calendar year, using the formula in § 303.14(c). The Departments require the receipt of the data by July 31 for each producer who wishes to receive an interim duty refund certificate. The interim duty refund certificate will be issued on or before August 31 of the same calendar year in which the wages were earned unless the Departments have unresolved questions. The process of determining the total annual amount of the duty refund will be based on verified creditable wages, duty-free shipments into the customs territory of the United States, creditable health insurance, life insurance and pension benefits and the duty differential, if watch tariffs have been reduced during the calendar year. The completed annual application (Form ITA–334P) shall be received by the Departments on or before January 31 and the annual verification of data and the calculation of each producer's total annual duty refund, based on the verified data, will continue to take place in February. Once the calculations for each producer's duty refund has been completed, the portion of the duty refund that has already been issued to each producer will be deducted from the total amount of each producer's annual duty refund amount. The duty refund certificate will continue to be issued by March 1 unless the Departments have unresolved questions.

(2) Certificates shall not be issued to more than one company in the territories owned or controlled by the same corporate entity.

(b) *Securities and handling of certificates.* (1) Certificate holders are responsible for the security of the certificates. The certificates shall be kept at

the territorial address of the insular producer or at another location having the advance approval of the Departments.

(2) All refund requests made pursuant to the certificates shall be entered on the reverse side of the certificate.

(3) Certificates shall be returned by registered, certified or express carrier mail to the Departments when:

(i) A refund is requested which exhausts the entitlement on the face of the certificate,

(ii) The certificate expires, or

(iii) The Departments request their return with good cause.

(4) Certificate entitlements may be transferred according to the procedures described in (c) of this section.

(c) *The use and transfer of certificate entitlements.* (1) Insular producers issued a certificate may request a refund by executing Form ITA–361P (see § 303.2(b)(5) and the instructions on the form). After authentication by the Department of Commerce, Form ITA–361P may be used to obtain duty refunds on articles that entered the customs territory of the United States duty paid except for any article containing a material which is the product of a country to which column 2 rates of duty apply. Articles for which duty refunds are claimed must have entered the customs territory of the United States during the two-year period prior to the issue date of the certificate or during the one-year period the certificate remains valid. Copies of the appropriate Customs entries must be provided with the refund request in order to establish a basis for issuing the claimed amounts. Certification regarding drawback claims and liquidated refunds relating to the presented entries is required from the claimant on the form.

(2) Regulations issued by the Bureau of Customs and Border Protection, U.S. Department of Homeland Security, govern the refund of duties under Public Law 97–446, as amended by Public Law 103–465 and Public Law 108–429. If the Departments receive information from the Bureau of Customs and Border Protection that a producer has made unauthorized use of any official form, they shall cancel the affected certificate.

(3) The insular producer may transfer a portion of all of its certificate entitlement to another party by entering in block C of Form ITA–361P the name and address of the party.

(4) After a Form ITA–361P transferring a certificate entitlement to a party other than the certificate holder has been authenticated by the Department of Commerce, the form may be exchanged for any consideration satisfactory to the two parties. In all cases, authenticated forms shall be transmitted to the certificate holder or its authorized custodian for disposition (see paragraph (b) above).

(5) All disputes concerning the use of an authenticated Form ITA–361P shall be referred to the Departments for resolution. Any party named on an authenticated Form ITA–361P shall be considered an ''interested party'' within the meaning of § 303.13 of this part.

[49 FR 17740, Apr. 25, 1984, as amended at 50 FR 43568, Oct. 28, 1985; 56 FR 9621, Mar. 7, 1991; 61 FR 55885, Oct. 30, 1996; 66 FR 34812, July 2, 2001; 70 FR 67648, Nov. 8, 2005; 72 FR 16714, Apr. 5, 2007]

§ 303.13 Appeals.

(a) Any official decision or action relating to the allocation of duty-exemptions or to the issuance or use of production incentive certificates may be appealed to the Secretaries by any interested party. Such appeals must be received within 30 days of the date on which the decision was made or the action taken in accordance with the procedures set forth in paragraph (b) of this section. Interested parties may petition for the issuance of a rule, or amendment or repeal of a rule issued by the Secretaries. Interested parties may also petition for relief from the application of any rule on the basis of hardship or extraordinary circumstances resulting in the inability of the petitioner to comply with the rule.

(b) Petitions shall bear the name and address of the petitioner and the name and address of the principal attorney or authorized representative (if any) for the party concerned. They shall be addressed to the Secretaries and filed in one original and two copies with the

U.S. Department of Commerce, Enforcement and Compliance, International Trade Administration, Washington, D.C. 20230, Attention: Statutory Import Programs Staff. Petitions shall contain the following:

(1) A reference to the decision, action or rule which is the subject of the petition;

(2) A short statement of the interest of the petitioner;

(3) A statement of the facts as seen by the petitioner;

(4) The petitioner's argument as to the points of law, policy of fact. In cases where policy error is contended, the alleged error together with the policy the submitting party advocates as the correct one should be described in full;

(5) A conclusion specifying the action that the petitioner believes the Secretaries should take.

(c) The Secretaries may at their discretion schedule a hearing and invite the participation of other interested parties.

(d) The Secretaries shall communicate their decision which shall be final, to the petitioner by registered mail.

(e) If the outcome of any petition materially affects the amount of the petitioner's allocation and if the Secretaries' consideration of the petition continues during the calculation of the annual allocations, the Secretaries shall set aside a portion of the affected territorial share in an amount which, in their judgment, protects the petitioner's interest and shall allocate the remainder among the other producers.

[49 FR 17740, Apr. 25, 1984, as amended at 56 FR 9622, Mar. 7, 1991; 72 FR 16714, Apr. 5, 2007; 78 FR 72571, Dec. 3, 2013]

§ 303.14 Allocation factors, duty refund calculations and miscellaneous provisions.

(a) *The allocation formula.* (1) Except as provided in (a)(2) of this section, the territorial shares (excluding any amount set aside for possible new entrants) shall be allocated among the several producers in each territory in accordance with the following formula:

(i) Fifty percent of the territorial share shall be allocated on the basis of the net dollar amount of economic contributions to the territory consisting of the dollar amount of creditable wages, up to an amount equal to 65% of the contribution and benefit base for Social Security as defined in the Social Security Act for the year in which the wages were earned, paid by each producer to territorial residents, plus the dollar amount of income taxes (excluding penalty and interest payments and deducting any income tax refunds and subsidies paid by the territorial government), and

(ii) Fifty percent of the territorial share shall be allocated on the basis of the number of units of watches and watch movements assembled in the territory and entered by each producer duty-free into the customs territory of the United States.

(2) If there is only one producer in a territory, the entire territorial share, excluding any amount set aside for possible new entrants, may be allocated without recourse to any distributive formula.

(b) *Minimum assembly requirements and prohibition of preferential supply relationship.* (1) No insular watch movement or watch may be entered free of duty into the customs territory of the United States unless the producer used 30 or more discrete parts and components to assemble a mechanical watch movement and 33 or more discrete parts and components to assemble a mechanical watch.

(2) Quartz analog watch movements must be assembled from parts knocked down to the maximum degree possible for the technical capabilities of the insular industry as a whole. The greatest degree of disassembly specified, for each manufacturer's brand and model, by any producer in any territory purchasing such brands and models shall constitute the disassembly required as a minimum for the industry as a whole.

(3) Watch movements and watches assembled from components with a value of more than $300 for watch movements and $3000 for watches shall not be eligible for duty-exemption upon entry into the U.S. Customs territory. Value means the value of the merchandise plus all charges and costs incurred up to the last point of shipment (*i.e.*, prior to entry of the parts and components into the territory).

(4) No producer shall accept from any watch parts and components supplier advantages and preferences which might result in a more favorable competitive position for itself vis-a-vis other territorial producers relying on the same supplier. Disputes under this paragraph may be resolved under the appeals procedures contained in § 303.13(b).

(c) *Calculation of the value of the mid-year production incentive certificates.* (1) The value of each producer's certificate shall equal the producer's average creditable wage per unit shipped during the first six months of the calendar year multiplied by the sum of:

(i) The number of units shipped up to 300,000 units times a factor of 90%; plus

(ii) Incremental units shipped up to 450,000 units times a factor of 85%; plus

(iii) Incremental units shipped up to 600,000 units times a factor of 80%; plus

(iv) Incremental units shipped up to 750,000 units times a factor of 75%.

(2) *Calculation of the value of the annual production incentive certificates.* The value of each producer's certificate shall equal the producer's average creditable benefit per unit based on creditable wages, health insurance, life insurance and pension benefits plus any duty differential, if applicable, averaged from the amount of duty free units shipped during the calendar year multiplied by the sum of the following to obtain the total verified amount of the annual duty-refund per company. This amount would then be adjusted by deducting the amount of the mid-year duty-refund already issued.

(i) The number of units shipped up to 300,000 units times a factor of 90%; plus

(ii) Incremental units shipped up to 450,000 units times a factor of 85%; plus

(iii) Incremental units shipped up to 600,000 units times a factor of 80%; plus

(iv) Incremental units shipped up to 750,000 units times a factor of 75%.

(3) The Departments may make adjustments for these data in the manner set forth in § 303.5(c).

(d) *New entrant invitations.* Applications from new firms are invited for any unused portion of any territorial share.

(e) *Territorial shares.* The shares of the total duty exemption are 1,866,000 for the Virgin Islands, 500,000 for Guam, 500,000 for American Samoa, and 500,000 for the Northern Mariana Islands.

[49 FR 17740, Apr. 25, 1984, as amended at 50 FR 43568, Oct. 28, 1985; 53 FR 17825, May 19, 1988; 53 FR 52679, Dec. 29, 1988; 53 FR 52994, Dec. 30, 1988; 56 FR 9622, Mar. 7, 1991; 58 FR 21348, Apr. 21, 1993; 59 FR 8847, 8848, Feb. 24, 1994; 61 FR 55885, Oct. 30, 1996; 63 FR 49667, Sept. 17, 1998; 65 FR 8049, Feb. 17, 2000; 69 FR 51533, Aug. 20, 2004; 72 FR 16714, Apr. 5, 2007]

Subpart B—Jewelry

SOURCE: 64 FR 67150, Dec. 1, 1999, unless otherwise noted.

§ 303.15 Purpose.

(a) This subpart implements the responsibilities of the Secretaries of Commerce and the Interior (''the Secretaries'') under Pub. L. 106–36, enacted 25 June 1999 which substantially amended Pub. L. 97–446, enacted 12 January 1983, amended by Pub. L. 89–805, enacted 10 November 1966, amended by Pub. L. 94–88, enacted 8 August 1975, amended by Pub. L. 94–241, enacted 24 March 1976, and amended by Pub. L. 103–465, enacted 8 December 1994, and Public Law 108–429, enacted on 3 December 2004.

(b) The amended law provides for the issuance of certificates to insular jewelry producers who have met the requirements of the laws and regulations, entitling the holder (or any transferee) to obtain refunds of duties on any article imported into the customs territory of the United States duty paid except for any article containing a material which is the product of a country to which column 2 rates of duty apply. The amounts of these certificates may not exceed specified percentages of the producers' verified creditable wages in the insular possessions (90% of wages paid for the production of the first 300,000 duty-free units and declining percentages, established by the Secretaries, of wages paid for incremental production up to 10,000,000 units by each producer) nor an aggregate annual amount for all certificates exceeding $5,000,000 adjusted for growth by the ratio of the previous year's gross national product to the gross national product in 1982. However, the law specifies that watch producer benefits are not to be diminished as a consequence

of extending the duty refund to jewelry manufacturers. In the event that the amount of the calculated duty refunds for watches and jewelry exceeds the total aggregate annual amount that is available, the watch producers shall receive their calculated amounts and the jewelry producers would receive amounts proportionately reduced from the remainder. Refund requests are governed by regulations issued by the Department of Homeland Security (see 19 CFR 7.4).

(c) Section 2401(a) of Pub. L. 106–36 and additional U.S. note 5 to chapter 91 of the HTSUS authorize the Secretaries to issue regulations necessary to carry out their duties. The Secretaries may cancel or restrict the certificate of any insular manufacturer found violating the regulations.

[49 FR 17740, Apr. 25, 1984, as amended at 70 FR 67648, Nov. 8, 2005; 72 FR 16715, Apr. 5, 2007; 73 FR 34857, June 19, 2008]

§ 303.16 Definitions and forms.

(a) *Definitions*. For purposes of the subpart, unless the context indicates otherwise:

(1) *Act* means Pub. L. 97–446, enacted 12 January 1983 (19 U.S.C. 1202), 96 Stat. 2329, as amended by Pub. L. 103–465, enacted on 8 December 1994, 108 Stat. 4991 and, as amended by Pub. L. 106–36, enacted on 25 June 1999, and Public Law 108–429, enacted on 3 December 2004.

(2) *Secretaries* means the Secretary of Commerce and the Secretary of the Interior or their delegates, acting jointly.

(3) *Director* means the Director of the Statutory Import Programs Staff, International Trade Administration, U.S. Department of Commerce.

(4) *Sale or transfer of a business* means the sale or transfer of control, whether temporary or permanent, over a firm which is eligible for a jewelry program duty-refund to any other firm, corporation, partnership, person or other legal entity by any means whatsoever, including, but not limited to, merger and transfer of stock, assets or voting trusts.

(5) *New firm* means a jewelry company which has requested in writing to the Secretaries permission to participate in the program. In addition to any other information required by the Secretaries, new firm requests shall include a representation that the company agrees to abide by the laws and regulations of the program, an outline of the company's anticipated economic contribution to the territory (including the number of employees) and a statement as to whether the company is affiliated by ownership or control with any other watch or jewelry company in the insular possessions. The Secretaries will then review the request and make a decision based on the information provided and the economic contribution to the territory. A new jewelry firm may not be affiliated through ownership or control with any other jewelry duty-refund recipient. In assessing whether persons or parties are affiliated, the Secretaries will consider the following factors, among others: stock ownership; corporate or family groupings; franchise or joint venture agreements; debt financing; and close supplier relationships. The Secretaries may not find that control exists on the basis of these factors unless the relationship has the potential to affect decisions concerning production, pricing, or cost. Also, no jewelry duty-refund recipient may own or control more than one watch duty-refund recipient.

(6) *Jewelry producer* means a company, located in one of the insular territories (see paragraph (a)(8) of this section), that produces jewelry provided for in heading 7113, HTSUS, which meets all the Bureau of Customs and Border Protection requirements for duty-free entry set forth in General Note 3(a)(iv), HTSUS, and 19 CFR 7.3, and has maintained its eligibility for duty refund benefits by complying with these regulations.

(7) *Unit of Jewelry* means a single article (e.g., ring, bracelet, necklace), pair (e.g, cufflinks), gram for links which are sold in grams and stocked in grams, and other subassemblies and components in the customary unit of measure they are stocked and sold within the industry.

(8) *Territories, territorial and insular possessions* refers to the insular possessions of the United States (i.e., the U.S. Virgin Islands, Guam, American Samoa and the Northern Mariana Islands).

(9) Creditable wages and associated creditable fringe benefits and creditable duty differentials eligible for the duty refund benefit include, but are not limited to, the following:

(i) Wages up to an amount equal to 65 percent of the contribution and benefit base for Social Security, as defined in the Social Security Act for the year in which wages were earned, paid to permanent residents of the insular possessions employed in a firm's manufacture of HTSUS heading 7113 articles of jewelry which are a product of the insular possessions and have met the Bureau of Customs and Border Protection's criteria for duty-free entry into the United States, plus any wages paid for the repair of non-insular HTSUS heading 7113 jewelry up to an amount equal to 50 percent of the firm's total creditable wages.

(A) Wages paid to persons engaged in the day-to-day assembly operations at the company office, wages paid to administrative employees working on the premises of the company office, wages paid to security operations employees and wages paid to servicing and maintenance employees if these services are integral to the assembly and manufacturing operations and the employees are working on the premises of the company office.

(B) Wages paid to permanent residents who are employees of a new company involved in the jewelry assembly and jewelry manufacturing of HTSUS heading 7113 jewelry for up to 18 months after such jewelry company commences jewelry manufacturing or jewelry assembly operations in the insular possessions.

(C) Wages paid when a maximum of two program producers work on a single piece of HTSUS heading 7113 jewelry which entered the United States free of duty under the program. Wages paid by the two producers will be credited proportionally provided both producers demonstrate to the satisfaction of the Secretaries that they worked on the same piece of jewelry, the jewelry received duty-free treatment into the customs territory of the United States, and the producers maintained production and payroll records sufficient for the Departments' verification of the creditable wage portion (see § 303.17(b)).

(D) Wages paid to persons engaged in both creditable and non-creditable assembly and repair operations may be credited proportionally provided the firm maintains production, shipping and payroll records adequate for the Departments' verification of the creditable portion.

(E) Wages paid to new permanent residents who have met the requirements of permanent residency in accordance with the Departments' regulations along with meeting all other creditable wage requirements of the regulations, which must be documented and verified to the satisfaction of the Secretaries.

(ii) The combined creditable amount of individual health and life insurance per year, for each full-time permanent resident employee who works on the premises of the company office and whose wages qualify as creditable, may not exceed 130 percent of the ''weighted average'' yearly federal employee health insurance, which is calculated from the individual health plans weighted by the number of individual contracts in each plan. The yearly amount is calculated by the Office of Personnel Management and includes the ''weighted average'' of all individual health insurance costs for federal employees throughout the United States. The maximum life insurance allowed within this combined amount is $50,000 for each employee. Only during the time employees are earning creditable wages are they entitled to health and life insurance duty refund benefits under the program.

(A) The combined creditable amount of family health and life insurance per year, for each full-time permanent resident employee who works on the premises of the company office and whose wages qualify as creditable, may not exceed 150 percent of the ''weighted average'' yearly federal employee health insurance, which is calculated from the family health plans weighted by the number of family contracts in each plan. The yearly amount is calculated by the Office of Personnel Management and includes the ''weighted average'' of all family health insurance costs for federal employees throughout the United States. The maximum life

insurance allowed within this combined amount is $50,000 dollars for each employee. Only during the time employees are earning creditable wages are they entitled to health and life insurance duty refund benefits under the program.

(B) The creditable pension benefit, for each full-time permanent resident employee who works on the premises of the company office and whose wages qualify as creditable, is up to 3 percent of the employee's wages unless the employee's wages exceed the maximum annual creditable wage allowed under the program (see paragraph (a)(9)(i) of this section). An employee earning more than the maximum creditable wage allowed under the program will be eligible for only 3 percent of the maximum creditable wage. Only during the time employees are earning creditable wages are they entitled to pension duty refund benefits under the program.

(10) Non-creditable wages and associated non-creditable fringe benefits ineligible for the duty refund benefit include, but are not limited to, the following:

(i) Wages over 65 percent of the contribution and benefit base for Social Security, as defined in the Social Security Act for the year in which wages were earned, paid to permanent residents of the territories employed in a firm's 91/5 heading 7113, HTSUS, jewelry program.

(A) Wages paid for the repair of jewelry in an amount over 50 percent of the firm's total creditable wages.

(B) Wages paid to employees who are involved in assembling HTSUS heading 7113 jewelry beyond 18 months after such jewelry company commences jewelry manufacturing or jewelry assembly operations in the insular possessions if the jewelry does not meet the Bureau of Customs and Border Protection's substantial transformation requirements and other criteria for duty-free enter into the United States.

(C) Wages paid for the assembly and manufacturing of jewelry which is shipped to places outside the customs territory of the United States; wages paid for the assembly and manufacturing of jewelry that does not meet the regulatory assembly requirements; or wages paid for the assembly and manufacture of jewelry that contain HTSUS column 2 components.

(D) Wages paid to those persons not engaged in the day-to-day assembly operations on the premises of the company office, wages paid to any outside consultants, wages paid to outside the office personnel, including but not limited to, lawyers, gardeners, construction workers and accountants; wages paid to employees not working on the premises of the company office; wages paid to employees working with a non-program producer to create a single piece of HTSUS heading 7113 jewelry whether or not it entered the United States free of duty; and wages paid to employees who do not qualify as permanent residents in accordance with the Departments' regulations.

(E) Wages paid to persons engaged in both creditable and non-creditable assembly and repair operations if the producer does not maintain production, shipping and payroll records adequate for the Departments' verification of the creditable portion.

(ii) Any costs, for the year in which the wages were paid, of the combined creditable amount of individual health and life insurance for employees over 130 percent of the ''weighted average'' yearly individual health insurance costs for all federal employees. The cost of any life insurance over the $50,000 limit for each employee. Any health and life insurance costs during the time an employee is not earning creditable wages.

(A) Any costs, for the year in which the wages were paid, of the combined creditable amount of family health and life insurance for employees over 150 percent of the ''weighted average'' yearly family health insurance costs for all federal employee. The cost of any life insurance over the $50,000 limit for each employee. Any health and life insurance costs during the time an employee is not earning creditable wages.

(B) Any pension benefits that were not based on associated creditable wages. The cost of any pension benefit per employee over 3 percent of the employee's creditable wages unless the employee's wages exceed the maximum annual creditable annual maximum

creditable wage allowed under the program (see paragraph (a)(9)(i) of this section). Employees earning over the maximum creditable wage allowed under the program would have a creditable annual pension benefit of up to 3 percent of the maximum creditable wage and wages over 3 percent of the maximum creditable wage would not be creditable.

(11) *Dutiable jewelry* includes jewelry which does not meet the requirements for duty-free entry under General Note 3(a)(iv), HTSUS, and 19 CFR 7.3, contains any material which is the product of any country with respect to which Column 2 rates of duty apply or is ineligible for duty-free treatment pursuant to other laws or regulations.

(12) *Permanent resident* means a person with one residence which is in the insular possessions or a person with one or more residences outside the insular possessions who meets criteria that include maintaining his or her domicile in the insular possessions, residing (*i.e.*, be physically present for at least 183 days within a continuous 365 day period year) and working in the territory at a program company, and maintaining his or her primary office for day-to-day work in the insular possessions.

(b) *Forms*. (1) *ITA—334P* ''Annual Application for License to Enter Watches and Watch Movements into the Customs Territory of the United States.'' The Director shall issue instructions for jewelry manufacturers on the completion of the relevant portions of the form. The form must be completed annually by all jewelry producers desiring to receive a duty refund and, with special instructions for its completion, by producers who wish to receive the total annual amount of the duty refund in installments on a biannual basis.

(2) *ITA–360P ''Certificate of Entitlement to Secure the Refund of Duties on Articles that Entered the Customs Territory of The United State Duty Paid.''* This document authorizes an insular jewelry producer to request the refund of duties on imports of articles that entered the customs territory of the United States duty paid, with certain exceptions, up to the specified value of the certificate. Certificates may be used to obtain duty refunds only when presented with a properly executed Form ITA–361P.

(3) *ITA–361P ''Request for Refund of Duties on Articles that Entered the Customs Territory of the United States Duty Paid.''* This form must be completed to obtain the refund of duties authorized by the Director through Form ITA–360P. After authentication by the Department of Commerce, it may be used for the refund of duties on items which were entered into the customs territory of the United States duty paid during a specified time period. Copies of the appropriate Customs entries must be provided with this form to establish a basis for issuing the claimed amounts. The forms may also be used to transfer all or part of the producer's entitlement to another party (see Sec. 303.19(c)).

[64 FR 67150, Dec. 1, 1999, as amended at 65 FR 8049, Feb. 17, 2000; 66 FR 34812, July 2, 2001; 67 FR 77409, Dec. 18, 2202; 70 FR 67648, Nov. 8, 2005; 72 FR 16715, Apr. 5, 2007; 73 FR 62881, Oct. 22, 2008]

§ 303.17 Application for annual duty-refunds.

(a) Form ITA–334P shall be furnished to producers by January 1 and must be completed and returned to the Director no later than January 31 of each calendar year.

(b) All data supplied are subject to verification by the Secretaries and no duty refund shall be made to producers until the Secretaries are satisfied that the data are accurate. To verify the data, representatives of the Secretaries shall have access to relevant company records including, but not limited to:

(1) Work sheets used to answer all questions on the application form, as specified by the instructions;

(2) Original records from which such data are derived;

(3) Records pertaining to ownership and control of the company;

(4) Records pertaining to all duty-free and dutiable shipments of HTSUS 7113 jewelry, including Customs entry documents, or the certificate of origin for the shipment, or, if a company did

not receive such documents from Customs, a certification from the consignee that the jewelry shipment received duty-free treatment, or a certification from the producer, if the producer can attest that the jewelry shipment received duty-free treatment;

(5) Records pertaining to corporate income taxes, gross receipts taxes and excise taxes paid by each producer in the territories;

(6) Customs, bank, payroll, including time cards, production records, and all shipping records including the importer of record number and proof of residency, as requested;

(7) All records pertaining to health insurance, life insurance and pension benefits for each employee;

(8) Records on purchases of components and sales of jewelry, including proof of payment; and

(9) Any other records in the possession of the parent or affiliated companies outside the territory pertaining to any aspect of the producer's jewelry operations.

(c) Data verification shall be performed in the territories, unless other arrangements satisfactory to the Departments are made in advance, by the Secretaries' representatives by the end of February of each calendar year. It is the responsibility of each program producer to make the appropriate data available to the Departments' officials for the calendar year for which the annual verification is being performed and no further data, from the calendar year for which the audit is being completed, will be considered for benefits at any time after the audit has been completed. In the event of discrepancies between the application and substantiating data before the audit is complete, the Secretaries shall determine which data will be used in the calculation of the duty refund and allocations.

(d) Records subject to the requirements of paragraph (b) of this section, shall be retained for a period of two years following their creation.

[49 FR 17740, Apr. 25, 1984, as amended at 66 FR 34813, July 2, 2001; 70 FR 67650, Nov. 8, 2005; 72 FR 16715, Apr. 5, 2007]

§ 303.18 Sale or transfer of business.

(a) The sale or transfer of a business together with its duty refund entitlement shall be permitted with prior written notification to the Departments. Such notification shall be accompanied by certifications and representations, as appropriate, that:

(1) The transferee is neither directly nor indirectly affiliated with any other territorial duty refund jewelry recipient in any territory;

(2) The transferee will not modify the jewelry operations in a manner that will significantly diminish its economic contributions to the territory.

(b) At the request of the Departments, the transferee shall permit representatives of the Departments to inspect whatever records are necessary to establish to their satisfaction that the certifications and representations contained in paragraph (a) of this section have been or are being met.

(c) Any transferee who is either unwilling or unable to make the certifications and representations specified in paragraph (a) of this section shall secure the Departments' approval in advance of the sale or transfer of the business. The request for approval shall specify which of the certifications specified in paragraph (a) of this section the firm is unable or unwilling to make, and give reasons why such fact should not constitute a basis for the Departments' disapproval of the sale or transfer.

§ 303.19 Issuance and use of production incentive certificates.

(a) *Issuance of certificates.* (1) The total annual amount of the Certificate of Entitlement, Form ITA–360, may be divided and issued on a biannual basis. The first portion of the total annual certificate amount will be based on reported duty-free shipments and creditable wages, determined from the wages as reported on the employer's first two quarterly federal tax returns (941–SS), paid during the first six month of the calendar year, using the formula in § 303.20(b). The Departments require the receipt of the data by July 31 for each producer who wishes to receive an interim duty refund certificate. The interim duty refund certificate will be issued on or before August

31 of the same year in which the wages were earned unless the Departments have unresolved questions. The process of determining the total annual amount of the duty refund will be based on verified creditable wages, duty-free shipments into the customs territory of the United States, creditable health insurance, life insurance and pension benefits and the duty differential, if watch tariffs have been reduced during the calendar year. The completed annual application (Form ITA–334P) shall be received by the Departments on or before January 31 and the annual verification of data and calculation of each producer's total annual duty refund, based on the verified data, will continue to take place in February. Once the calculations for each producer's duty refund has been completed, the portion of the duty refund that has already been issued to each producer will be deducted from the total amount of each producer's annual duty refund amount. The duty refund certificate will continue to be issued by March 1 unless the Departments have unresolved questions.

(2) Certificates shall not be issued to more than one jewelry company in the territories owned or controlled by the same corporate entity.

(b) *Security and handling of certificates.* (1) Certificate holders are responsible for the security of the certificates. The certificates shall be kept at the territorial address of the producer or at another location having the advance approval of the Departments.

(2) All refund requests made pursuant to the certificates shall be entered on the reverse side of the certificate.

(3) Certificates shall be returned by registered, certified or express carrier mail to the Department of Commerce when:

(i) A refund is requested which exhausts the entitlement on the face of the certificate,

(ii) The certificate expires, or

(iii) The Departments request their return with good cause.

(4) Certificate entitlements may be transferred according to the procedures described in paragraph (c) of this section.

(c) *The use and transfer of certificate entitlements.* (1) Insular producers issued a certificate may request a refund by executing Form ITA–361P (see § 303.16(b)(3)) and the instruction on the form). After authentication by the Department of Commerce, Form ITA–361P may be used to obtain duty refunds on article that entered the customs territory of the United States duty paid. Duties on an article which is the product of a country with respect to column 2 rates of duty apply may not be refunded Articles for which duty refunds are claimed must have entered the customs territory of the United States during the two-year period prior to the issue date of the certificate or during the one-year period the certificate remains valid. Copies of the appropriate Customs entries must be provided with the refund request in order to establish a basis for issuing the claimed amounts. Certification regarding drawback claims and liquidated refunds relating to the presented entries is required from the claimant on the form.

(2) Regulations issued by the Bureau of Customs and Border Protection, U.S. Department of Homeland Security, govern the refund of duties under 19 CFR 7.4. If the Departments receive information from the Bureau of Customs and Border Protection that a producer has made unauthorized use of any official form, they may cancel the affected certificate.

(3) The territorial producer may transfer a portion of all of its certificate entitlement to another party by entering in block C of Form ITA–361P the name and address of the party.

(4) After a Form ITA–361P transferring a certificate entitlement to a party other than the certificate holder has been authenticated by the Department of Commerce, the form may be exchanged for any consideration satisfactory to the two parties. In all cases, authenticated forms shall be transmitted to the certificate holder or its authorized custodian for disposition (see paragraph (b) of this section).

(5) All disputes concerning the use of an authenticated Form ITA–361P shall be referred to the Departments for resolution. Any party named on an authenticated Form ITA–361P shall be

considered an ''interested party'' within the meaning of § 303.21 of this part.

[49 FR 17740, Apr. 25, 1984, as amended at 66 FR 34813, July 2, 2001; 70 FR 67650, Nov. 8, 2005; 72 FR 16715, Apr. 5, 2007]

§ 303.20 Duty refund calculations and miscellaneous provisions.

(a) Territorial jewelry producers are entitled to duty refund certificates only for jewelry that they produce which is provided for in heading 7113, HTSUS, is a product of a territory and otherwise meets the requirements for duty-free entry under General Note 3 (a)(iv), HTSUS, and 19 CFR 7.3.

(1) An article of jewelry is considered to be a product of a territory if:

(i) The article is wholly the growth or product of the territory; or

(ii) The article became a new and different article of commerce as a result of production or manufacture performed in the territories.

(2) Eighteen month exemption. Any article of jewelry provided for in HTSUS heading 7113, assembled in the insular possessions by a new entrant jewelry manufacturer shall be treated as a product of the insular possessions if such article is entered into the customs territory of the United States no later than 18 months after such producer commences jewelry manufacturing or jewelry assembly operations in the insular possessions.

(b) *Calculation of the value of the mid-year production incentive certificates.* (1) The value of each producer's certificate shall equal the producer's average creditable wage per unit shipped during the first six months of the calendar year multiplied by the sum of:

(i) The number of units shipped up to 300,000 units times a factor of 90%; plus

(ii) Incremental units shipped up to 3,533,334 units times a factor of 85%; plus

(iii) Incremental units shipped up to 6,766,667 units times a factor of 80%; plus

(iv) Incremental units shipped up to 10,000,000 units times a factor of 75%.

(2) *Calculation of the value of the annual production incentive certificates.* The value of each producer's certificate shall equal the producer's average creditable benefit per unit based on creditable wages, health insurance, life insurance and pension benefits averaged from the amount of duty free units shipped during the calendar year multiplied by the sum of the following to obtain the total verified amount of the annual duty-refund per company. This amount would then be adjusted by deducting the amount of the mid-year duty-refund already issued.

(i) The number of units shipped up to 300,000 units times a factor of 90%; plus

(ii) Incremental units shipped up to 3,533,334 units times a factor of 85%; plus

(iii) Incremental units shipped up to 6,766,667 units times a factor of 80%; plus

(iv) Incremental units shipped up to 10,000,000 units times a factor of 75%.

[64 FR 67150, Dec. 1, 1999, as amended at 70 FR 67650, Nov. 8, 2005; 72 FR 16715, Apr. 5, 2007; 73 FR 34857, June 19, 2008]

§ 303.21 Appeals.

(a) Any official decision or action relating to the issuance or use of production incentive certificates may be appealed to the Secretaries by any interested party. Such appeals must be received within 30 days of the date on which the decision was made or the action taken in accordance with the procedures set forth in paragraph (b) of this section. Interested parties may petition for the issuance of a rule, or amendment or repeal of a rule issued by the Secretaries. Interested parties may also petition for relief from the application of any rule on the basis of hardship or extraordinary circumstances resulting in the inability of the petitioner to comply with the rule.

(b) Petitions shall bear the name and address of the petitioner and the name and address of the principal attorney or authorized representative (if any) for the party concerned. They shall be addressed to the Secretaries and filed in one original and two copies with the U.S. Department of Commerce, Enforcement and Compliance, International Trade Administration, Washington, DC 20230, Attention: Statutory Import Programs Staff. Petitions shall contain the following:

(1) A reference to the decision, action or rule which is the subject of the petition;

(2) A short statement of the interest of the petitioner;

(3) A statement of the facts as seen by the petitioner;

(4) The petitioner's argument as to the points of law, policy or fact. In cases where policy error is contended, the alleged error together with the policy the submitting party advocates as the correct one should be described in full;

(5) A conclusion specifying the action that the petitioner believes the Secretaries should take.

(c) The Secretaries may at their discretion schedule a hearing and invite the participation of other interested parties.

(d) The Secretaries shall communicate their decision, which shall be final, to the petitioner by registered, certified or express mail.

[64 FR 67150, Dec. 1, 1999, as amended at 72 FR 16716; 78 FR 72571, Dec. 3, 2013]

PART 310—OFFICIAL U.S. GOVERNMENT RECOGNITION OF AND PARTICIPATION IN INTERNATIONAL EXPOSITIONS HELD IN THE UNITED STATES

Sec.

310.1 Background and purpose.
310.2 Definitions.
310.3 Applications for Federal recognition.
310.4 Action on application.
310.5 Report of the Secretary on Federal recognition.
310.6 Recognition by the President.
310.7 Statement for Federal participation.
310.8 Proposed plan for Federal participation.
310.9 Report of the Secretary on Federal participation.

AUTHORITY: Pub. L. 91–269, 84 Stat. 271 (22 U.S.C. 2801 *et seq.*).

SOURCE: 40 FR 34107, Aug. 14, 1975, unless otherwise noted. Redesignated at 46 FR 57457, Nov. 24, 1981.

§310.1 Background and purpose.

The regulations in this part are issued under the authority of Pub. L. 91–269 (84 Stat. 271, 22 U.S.C. 2801 *et seq.*) which establishes an orderly procedure for Federal Government recognition of, and participation in, international expositions to be held in the United States. The Act provides, inter alia, that Federal recognition of an exposition is to be granted upon a finding by the President that such recognition will be in the national interest. In making this finding, the President is directed to consider, among other factors, a report from the Secretary of Commerce as to the purposes and reasons for an exposition and the extent of financial and other support to be provided by the State and local officials and business and community leaders where the exposition is to be held, and a report by the Secretary of State to determine whether the exposition is qualified for registration under Bureau of International Expositions (BIE) rules. The BIE is an international organization established by the Paris Convention of 1928 (T.I.A.S. 6548 as amended by T.I.A.S. 6549) to regulate the conduct and scheduling of international expositions in which foreign nations are officially invited to participate. The BIE divides international expositions into different categories and types and requires each member nation to observe specified minimum time intervals in scheduling each of these categories and types of expositions.[1]

[1] The BIE defines a General Exposition of the First Category as an exposition dealing with progress achieved in a particular field applying to several branches of human activity at which the invited countries are obligated to construct national pavilions. A General Exposition of the Secondary Category is a similar exposition at which invited countries are not authorized to construct national pavilions, but occupy space provided by the exposition sponsors. Special Category Expositions are those dealing only with one particular technique, raw material, or basic need.

The BIE frequency rules require that an interval of 15 years must elapse between General Expositions of the First Category held in one country. General Expositions of the Second Category require an interval of 10 years. An interval of 5 years must ordinarily elapse between Special Category Expositions of the same kind in one country or three months between Special Category Expositions of different kinds. These frequency intervals are computed from the date of the opening of the exposition.

More detailed BIE classification criteria and regulations are contained in the Paris Convention of 1928, as amended in 1948 and 1966. Applicants not having a copy of the text of this convention may obtain one by writing

Continued

BIE rules, member nations may not ordinarily participate in an international exposition unless such exposition has been approved by the BIE. The United States became a member of the BIE on April 30, 1968, upon ratification of the Paris Convention by the U.S. Senate (114 Cong. Rec. 11012).

Federal participation in a recognized international exposition requires a specific authorization by the Congress, upon a finding by the President that such participation would be in the national interest. The Act provides for the transmission to Congress of a participation proposal by the President. This proposal transmits to the Congress information regarding the exposition, including a statement that it has been registered by the BIE and a plan for Federal participation prepared by the Secretary of Commerce in cooperation with other interested Federal departments and agencies.

§ 310.2 Definitions.

For the purpose of this part, except where the context requires otherwise:

(a) *Act* means Pub. L. 91–269.

(b) *Secretary* means the Secretary of Commerce.

(c) *Commissioner General* means the person appointed to act as the senior Federal official for the exposition as required by BIE rules and regulations.

(d) *Director* means the Director of the International Expositions Staff, Office of the Deputy Assistant Secretary for Export Development, International Trade Administration, Department of Commerce.

(e) *Applicant* means a State, County, municipality, a political subdivision of the foregoing, private non-profit or not-for-profit organizations, or individuals filing an application with the Director seeking Federal recognition of an international exposition to be held in the United States.

(f) *State* means one of the several States of the United States, the District of Columbia, the Commonwealth of Puerto Rico, the Virgin Islands, Guam, American Samoa, and the Trust Territory of the Pacific Islands.

(g) *Exposition* means an international exposition proposed to be held in the United States for which an application has been filed with the Director seeking Federal recognition under the Act; which proposes to invite more than one foreign country to participate; and, which would exceed three weeks in duration. Any event under three weeks in duration is not considered an international exposition under BIE rules.

[40 FR 34107, Aug. 14, 1975. Redesignated and amended at 46 FR 57457, Nov. 24, 1981]

§ 310.3 Applications for Federal recognition.

(a) Applications for Federal recognition of an exposition shall be filed with, and all official communications in connection therewith addressed to, the International Expositions Staff, International Trade Administration, Department of Commerce, Washington, DC 20230.

(b) Every application, exhibit, or enclosure, except where specifically waived by the Director, shall be in quadruplicate, duly authenticated and referenced.

(c) Every application shall be in letter form and shall contain the date, address, and official designation of the applicant and shall be signed by an authorized officer or individual.

(d) Every application, except where specifically waived by the Director, shall be accompanied by the following exhibits:

1. *Exhibit No. 1.* A study setting forth in detail the purpose for the exposition, including any historical, geographic, or other significant event of the host city, State, or region related to the exposition.

2. *Exhibit No. 2.* An exposition plan setting forth in detail (i) the theme of the exposition and the ''storyline'' around which the entire exposition is to be developed; (ii) whatever preliminary architectural and design plans are available on the physical layout of the site plus existing and projected structures; (iii) the type of participation proposed in the exposition (e.g., foreign and domestic exhibits); (iv) cultural, sports, and special events planned; (v) the proposed BIE category of the event and evidence of its conformity to the regulations of the BIE (a copy of these regulations can be obtained from the Director upon request); (vi) the proposed steps that

the Director. (The Convention may soon be amended by a Protocol which has been approved by the BIE and ratified by the United States. This amendment would increase authorized frequencies or intervals for BIE approved expositions.)

will be taken to protect foreign exhibitors under the BIE model rules and regulations and (vii) in writing commit its organization to the completion of the exposition.

3. *Exhibit No. 3.* Documentary evidence of State, regional and local support (e.g., letters to the applicant from business and civic leadership of the region, pledging assistance and/or financing; State and/or municipal resolutions, acts, or appropriations; referendums on bond issues, and others).

4. *Exhibit No. 4.* An organization chart of the exposition management structure (actual or proposed) of the applicant, including description of the functions, duties and responsibilities of each official position along with bibliographic material, including any professional experience in the fields of architecture, industrial design, engineering, labor relations, concession management, interpretative theme planning, exhibit development, etc., on principal officers, if available. (The principal officials should also be prepared to submit subsequent individual statements under oath of their respective financial holdings and other interests.)

5. *Exhibit No. 5.* A statement setting forth in detail (i) the availability of visitor services in existence or projected to accommodate tourists at the exposition (e.g., number of hotel and motel units, number and type of restaurants, health facilities, etc.); (ii) evidence of adequate transportation facilities and accessibility of the host city to large groups of national and international visitors (e.g., number and schedule of airlines, bus lines, railroads, and truck lines serving the host city); and (iii) plans to promote the exposition as a major national and international tourist destination.

6. *Exhibit No. 6.* A statement setting forth in detail the applicant's plans for acquiring title to, or the right to occupy and use real property, other than that owned by the applicant or by the United States, essential for implementing the project or projects covered by the application. If the applicant, at the time of filing the application, has acquired title to the real property, he should submit a certified copy of the deed(s). If the applicant, at the time of filing the application, has by easement, lease, franchise, or otherwise acquired the right to occupy and use real property owned by others, he should submit a certified copy of the appropriate legal instrument(s) evidencing this right.

7. *Exhibit No. 7.* A statement of the latest prevailing hourly wage rates for construction workers in the host city (e.g., carpenters, cement masons, sheet metal workers, etc.).

8. *Exhibit No. 8.* Information on attitudes of labor leaders as to ''no strike'' agreements during the development and operation of the exposition. Actual ''no strike'' pledges are desirable.

9. *Exhibit No. 9.* A detailed study conducted and certified by a nationally recognized firm(s) in the field of economics, accounting, management, etc., setting forth (i) proposed capital investment cost; cash flow projections; and sources of financing available to meet these costs, including but not limited to funds from State and municipal financing, general obligation and/or general revenue bond issues, and other public or private sources of front-end capital; (ii) assurances that the ''guaranteed financing'' is or will be available in accordance with Section 2(a)(1)(b) of Pub. L. 91–269; (iii) the projected expenses for managing the exposition; (iv) projected operational revenues broken down to include admissions, space rental, concessions, service fees and miscellaneous income; and (v) cost-benefit projections. These should be accompanied by a statement of the firm that the needed cash flow, sources of funding, and revenue projections are realistic and attainable.

10. *Exhibit No. 10.* A description of the exposition implementation time schedule and the management control system to be utilized to implement the time schedule (e.g., PERT, CPM, etc.).

11. *Exhibit No. 11.* A statement setting forth in detail the public relations, publicity and other promotional plans of the applicant. For example, the statement could include: (i) an outline of the public relations/publicity program broken down by percentage allocations among the various media; (ii) a public relations/publicity program budget with the various calendar target dates for completion of phases prior to the opening, the opening and post-opening of the exposition; and (iii) protocol plans for U.S. and foreign dignitaries, as well as for special ceremonies and events and how these plans are to be financed.

12. *Exhibit No. 12.* A study setting forth in detail the benefits to be derived from the exposition and residual use plans. For example, the study might include: (i) extent of immediate economic benefits for the city/region/nation in proportion to total investment in the exposition; (ii) extent of long range economic benefits for the city/region/nation in proportion to total investment in the exposition; and (iii) extent of intangible (social, psychological, ''good will'') benefits accruing to the city/region/nation including the solution or amelioration of any national/local problems.

13. *Exhibit No. 13.* A statement committing the applicant to develop and complete an environmental impact statement which complies with section 102(2)(c) of the National Environmental Policy Act of 1969 (83 Stat. 852; 42 U.S.C. 4331). Sample copies of environmental impact statements may be obtained from the Director. Prior to the Director's submitting a report to the Secretary containing his findings on the application for

Federal recognition pursuant to § 310.4, the applicant must have completed the required Environmental Impact Statement (EIS), in a form acceptable to the Department of Commerce.

14. *Exhibit No. 14.* A detailed set of general and special rules and regulations governing the exposition and participation in it, which, if Federal recognition is obtained, can be used by the Federal Government in seeking BIE registration.

15. *Exhibit No. 15.* A statement from the applicant agreeing to accept a U.S. Commissioner General, appointed by the President. He will be recognized as the senior Federal official and titular head of the exposition, final arbiter in disputes with exhibitors, and the official contact with foreign governments. The applicant should also agree to furnish the Commissioner General and his staff with suitable facilities in the host community during the development and operation of the exposition.

[40 FR 34107, Aug. 14, 1975. Redesignated and amended at 46 FR 57457, Nov. 24, 1981]

§ 310.4 Action on application.

(a) Upon receipt of an application, the Director will analyze the application and all accompanying exhibits to insure compliance with the provisions of § 310.3 and report his findings with respect thereto to the Secretary.

(b) If more than one applicant applies for Federal recognition for expositions to be held within three years or less of each other, the applications will be reviewed concurrently by the Director. The following standards will be considered in determining which if any of the competing applicants will be recommended for Federal recognition:

(1) The order of receipt of the applications by the Director, complete with all exhibits required by § 310.3.

(2) The financial plans of the applications. Primary consideration will be given to those applications which do not require Federal financing for exposition development. This does not extend to funding for a Federal pavilion, if one is desired.

(3) The relative merit of the applications in terms of their qualifications as tourism destination sites, both with respect to existing facilities and those facilities planned for the proposed exposition. If necessary, to assist in making this determination, the Director will appoint a panel of travel industry experts representing tour developers, the transportation, entertainment and hotel/motel industries for the purpose of studying the competing applications and reporting to the Director its views as to which proposed site best meets the above criteria. If such a panel is deemed necessary, the provisions of the Federal Advisory Committee Act (86 Stat. 770, 5 U.S.C. App. I) will be applicable.

(c) In analyzing the applications, the Director may hold public hearings with the objective of clarifying issues that might be raised by the application. If desired, the Director may utilize the services of an examiner.

(d) If the Director, in his discretion, decides to hold a public hearing, notice of such hearing shall be published in the FEDERAL REGISTER, and a copy of the notice shall be furnished to local newspapers. The notice shall state the subject to be considered and when and where the hearing will be held, specifically designating the date, hour, and place.

(e) The following general procedure shall govern the conduct of public hearings: (1) Stenographic minutes of the proceedings shall be made; (2) the names and addresses of all parties present or represented at the hearing shall be recorded; and (3) the Director or Examiner shall read aloud for the record and for the benefit of the public such parts of the Act and of these regulations as bear on the application. He shall also read aloud for the record and for the benefit of the public such other important papers, or extracts therefrom, as may be necessary for a full understanding of the issues which require clarification. The Director or Examiner shall impress upon the parties in attendance at the public hearing, and shall specifically state at the commencement of the hearing, that the hearing is not adversary in nature and that the sole objective thereof is to clarify issues that might have been raised by the application.

(f) Statements of interested parties may be presented orally at the hearing, or submitted in writing for the record.

(g) Within six months after receipt of a fully completed application and/or the adjournment of the public hearing, the Director shall submit his report

containing his findings on the application to the Secretary.

§310.5 Report of the Secretary on Federal recognition.

If the Director's report recommends Federal recognition, the Secretary, within a reasonable time, shall submit a report to the President.

(a) The Secretary's report shall include: (1) An evaluation of the purposes and reasons for the exposition; and (2) a determination as to whether guaranteed financial and other support has been secured by the exposition from affected State and local governments and from business and civic leaders of the region and others in amounts sufficient to assure the successful development and progress of the exposition.

(b) Based on information from, and coordination with the Department of Commerce the Secretary of State shall also file a report with the President that the exposition qualifies for recognition by the BIE.

§310.6 Recognition by the President.

If the President concurs in the favorable reports from the Secretaries of State and Commerce, he may grant Federal recognition to the exposition by indicating his concurrence to the two Secretaries and authorizing them to seek BIE registration.

§310.7 Statement for Federal participation.

If Federal participation in the exposition, as well as Federal recognition thereof is desired, the applicant shall in a statement to the Director outline the nature of the Federal participation envisioned, including whether construction of a Federal pavilion is contemplated. (It should be noted, however, that before Federal participation can be authorized by the Congress under the Act, the exposition must have (i) met the criteria for Federal recognition and be so recognized, and (ii) been registered by the BIE. Although applicants need not submit such a statement until these prerequisites are satisfied, they are encouraged to do so.) Where the desired Federal participation includes a request for construction of a Federal pavilion, the statement shall be accompanied by the following exhibits:

1. *Exhibit No. 1.* A survey drawing of the proposed Federal pavilion site, showing its areas and boundaries, its grade elevations, and surface and subsoil conditions.

2. *Exhibit No. 2.* Evidence of resolutions, statutes, opinions, etc., as to the applicant's ability to convey by deed the real property comprising the proposed Federal pavilion site in fee-simple and free of liens and encumbrances to the Federal Government. The only consideration on the part of the Government for the conveyance of the property shall be the Government's commitment to participate in the exposition.

3. *Exhibit No. 3.* A certified copy of the building code which would be applicable should a pavilion be constructed.

4. *Exhibit No. 4.* An engineering drawing showing the accessibility of the proposed pavilion site to utilities (e.g., sewerage, water, gas, electricity, etc.).

5. *Exhibit No. 5.* A statement setting forth the security and maintenance and arrangements which the applicant would undertake (and an estimate of their cost) while a pavilion is under construction.

6. *Exhibit No. 6.* A study pursuant to Executive Order 11296 of August 10, 1966, entitled "Evaluation of flood hazard in locating Federally owned or financed buildings, roads and other facilities and in disposing of Federal land and properties."

§310.8 Proposed plan for Federal participation.

(a) Upon receipt of the statement, and the exhibits referred to in §310.7, the Director shall prepare a proposed plan in cooperation with other interested departments and agencies of the Federal Government for Federal participation in the exposition.

(b) In preparing the proposed plan for Federal participation in the exposition, the Director shall conduct a feasibility study of Federal participation including cost estimates by utilizing the services within the Federal Government, professional consultants and private sources as required and in accordance with applicable laws and regulations.

(c) The Director, in the proposed plan for Federal participation in the exposition, shall determine whether or not a Federal pavilion should be constructed and, if so, whether or not the

Government would have need for a permanent structure in the area of the exposition or whether a temporary structure would be more appropriate.

(d) The Director shall seek the advice of the Administrator of the General Services Administration to the extent necessary in carrying out the proposed plan for Federal participation in the exposition.

(e) Upon completion of the proposed plan for Federal participation in the exposition, the Director shall submit the plan to the Secretary.

§ 310.9 Report of the Secretary on Federal participation.

Upon receipt of the Director's proposed plan for Federal participation, the Secretary, within a reasonable time, shall submit a report to the President including: (a) Evidence that the exposition has met the criteria for Federal recognition and has been so recognized; (b) a statement that the exposition has been registered by the BIE; and (c) a proposed plan for the Federal participation referred to in § 310.8.

PART 315—DETERMINATION OF BONA FIDE MOTOR-VEHICLE MANUFACTURER

Sec.
315.1 Scope and purpose.
315.2 Definitions.
315.3 Application.
315.4 Determination by the Under Secretary.
315.5 Maintenance and publication of a list of bona fide motor-vehicle manufacturers.

AUTHORITY: Headnote 2, subpart B, part 6, schedule 6, Tariff Schedules of the United States (19 U.S.C. 1202); sec. 501(2) of Title V, Automotive Products Trade Act of 1965 (19 U.S.C. 2031).

SOURCE: 45 FR 42214, June 23, 1980, unless otherwise noted. Redesignated at 53 FR 52115, Dec. 27, 1988.

§ 315.1 Scope and purpose.

The purpose of this part is to set forth regulations implementing headnote 2 to subpart B, part 6, schedule 6 of the Tariff Schedules of the United States as proclaimed by Proclamation No. 3682 of October 21, 1965 (3 CFR 140–65 Comp.). issued pursuant to the Automotive Products Trade Act of 1965 (19 U.S.C. 2031), by establishing a procedure under which a person may apply to be determined a bona fide motor-vehicle manufacturer. Under headnote 2 to subpart B, part 6, schedule 6 of the Tariff Schedules of the United States, whenever the Secretary of Commerce has determined a person to be a bona fide motor-vehicle manufacturer, such person is eligible to obtain duty-free importation of certain Canadian articles and to issue certain orders, contracts, or letters of intent under or pursuant to which other persons, not themselves bona fide motor-vehicle manufacturers, may obtain duty-free treatment for such Canadian articles. The responsibilities of Secretary of Commerce relating to the development, maintenance and publication of a list of bona fide motor-vehicle manufacturers and the authority to promulgate rules and regulations pertaining thereto have been delegated to Under Secretary for International Trade, Department of Commerce pursuant to Department of Commerce Organization Order 40–1, Amendment 9 of January 22, 1984 (49 FR 4538).

[45 FR 42214, June 23, 1980. Redesignated and amended at 53 FR 52115, Dec. 27, 1988]

§ 315.2 Definitions.

For the purpose of the regulations in this part and the forms issued to implement it:

(a) *Act* means the Automotive Products Trade Act of 1965 (79 Stat. 1016, 19 U.S.C. 2001 through 2033).

(b) *Under Secretary* means Under Secretary for International Trade of the Department of Commerce, or such official as may be designated by the Under Secretary to act in his or her behalf.

(c) *Motor vehicle* means a motor vehicle of a kind described in item 692.05 or 692.10 of subpart B, part 6, schedule 6, of the Tariff Schedules of the United States (excluding an electric trolley bus and a three-wheeled vehicle) or an automotive truck tractor.

(d) *Bona fide motor-vehicle manufacturer* means a person who upon application to the Under Secretary is determined by the Under Secretary to have produced no fewer than 15 complete motor vehicles in the United States during the 12-month period preceding

the date certified in the application, and to have had as of such date installed capacity in the United States to produce 10 or more complete motor vehicles per 40-hour week. A person shall only be regarded as having had the capacity to produce a complete motor vehicle if his operation included the assembly of two or more major components (e.g., the attachment of a body to a chassis) to create a new motor vehicle ready for use.

(e) *Person* includes any individual, corporation, partnership, association, company, or any kind of organization.

(f) *United States* includes only the States, the District of Columbia and Puerto Rico.

[45 FR 42214, June 23, 1980. Redesignated and amended at 53 FR 52115, Dec. 27, 1988]

§ 315.3 Application.

Any person in the United States desiring to be determined a bona fide motor vehicle manufacturer shall apply to the Under Secretary by filing two copies of Form BIE–3 in accordance with the instructions set forth on the form and this part. Application forms may be obtained from the Under Secretary, District offices of the U.S. Department of Commerce, or from U.S. Collectors of Customs, and should be mailed or delivered to the:

U.S. Department of Commerce, International Trade Administration, Office of Automotive Industry Affairs—APTA, 14th and Constitution Avenue, NW., Room 4036, Washington, DC 20230.

[45 FR 42214, June 23, 1980. Redesignated and amended at 53 FR 52115, Dec. 27, 1988]

§ 315.4 Determination by the Under Secretary.

(a) As soon as practicable after receipt of the application, the Under Secretary shall determine whether an applicant has produced no fewer than 15 complete motor vehicles in the United States during the 12-month period preceding the date certified in the application and as of such date, had installed capacity in the United States to produce 10 or more complete motor vehicles per 40 hour week. The Under Secretary may request such additional data from an applicant as he may deem appropriate to establish whether the applicant has satisfied the requirements of this part.

(b) A determination by the Under Secretary under this part shall be effective for a 12-month period to begin on the date as of which the Under Secretary determines that the applicant qualified under this part. Within 60 days prior to the termination of such period, a bona fide motor vehicle manufacturer may apply for another determination under this part.

(c) The Under Secretary will promptly notify each applicant in writing of the final action taken on his application.

[45 FR 42214, June 23, 1980. Redesignated and amended at 53 FR 52115, Dec. 27, 1988]

§ 315.5 Maintenance and publication of a list of bona fide motor-vehicle manufacturers.

The Under Secretary shall maintain and publish from time to time in the FEDERAL REGISTER, a list of the names and addresses of bona fide motor vehicle manufacturers, and the effective dates from each determination.

[45 FR 42214, June 23, 1980. Redesignated and amended at 53 FR 52115, Dec. 27, 1988]

PART 325—EXPORT TRADE CERTIFICATES OF REVIEW

Sec.

325.1 Scope.
325.2 Definitions.
325.3 Applying for a certificate of review.
325.4 Calculating time periods.
325.5 Issuing the certificate.
325.6 Publishing notices in the Federal Register.
325.7 Amending the certificate.
325.8 Expediting the certification process.
325.9 Reconsidering an application that has been denied.
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325.12 Returning the applicant's documents.
325.13 Nonadmissibility in evidence.
325.14 Submitting reports.
325.15 Relinquishing a certificate.
325.16 Protecting confidentiality of information.
325.17 Waiver.

AUTHORITY: Title III of the Export Trading Company Act, Pub. L. 97–290 (96 Stat. 1240–1245, 15 U.S.C. 4011–4021).

SOURCE: 50 FR 1806, Jan. 11, 1985, unless otherwise noted.

§ 325.1 Scope.

This part contains regulations for issuing export trade certificates of review under title III of the Export Trading Company Act, Pub. L. 97–290. A holder of a certificate of review and the members named in the certificate will have specific protections from private treble damage actions and government criminal and civil suits under U.S. Federal and State antitrust laws for the export conduct specified in the certificate and carried out during its effective period in compliance with its terms and conditions.

§ 325.2 Definitions.

As used in this part:

(a) *Act* means title III of Pub. L. 97–290, Export Trade Certificates of Review.

(b) *Antitrust laws* means the antitrust laws, as the term is defined in the first section of the Clayton Act (15 U.S.C. 12), section 5 of the Federal Trade Commission Act (15 U.S.C. 45) (to the extent that section 5 prohibits unfair methods of competition), and any State antitrust or unfair competition law.

(c) *Applicant* means the person or persons who submit an application for a certificate.

(d) *Application* means an application for a certificate to be issued under the Act.

(e) *Attorney General* means the Attorney General of the United States or his designee.

(f) *Certificate* means a certificate of review issued pursuant to the Act.

(g) *Control* means either (1) holding 50 percent or more of the outstanding voting securities of an issuer; or (2) having the contractual power presently to designate a majority of the directors of a corporation, or in the case of an unincorporated entity, a majority of the individuals who exercise similar functions.

(h) *Controlling entity* means an entity which directly or indirectly controls a member or applicant, and is not controlled by any other entity.

(i) *Export conduct* means specified export trade activities and methods of operation carried out in specified export trade and export markets.

(j) *Export trade* means trade or commerce in goods, wares, merchandise, or services that are exported, or are in the course of being exported, from the United States or any territory of the United States to any foreign nation.

(k) *Export trade activities* means activities or agreements in the course of export trade.

(l) *Member* means an entity (U.S. or foreign) or a person which is seeking protection under the certificate with the applicant. A member may be a partner in a partnership or a joint venture; a shareholder of a corporation; or a participant in an association, cooperative, or other form of profit or nonprofit organization or relationship, by contract or other arrangement.

(m) *Method of operation* means any method by which an applicant or member conducts or proposes to conduct export trade.

(n) *Person* means an individual who is a resident of the United States; a partnership that is created under and exists pursuant to the laws of any State or of the United States; a State or local government entity; a corporation, whether it is organized as a profit or nonprofit corporation, that is created under and exists pursuant to the laws of any State or of the United States; or any association or combination, by contract or other arrangement, between or among such persons.

(o) *Secretary* means the Secretary of Commerce or his designee.

(p) *Services* means intangible economic output, including, but not limited to—

(1) business, repair, and amusement services,

(2) management, legal, engineering, architectural, and other professional services, and

(3) financial, insurance, transportation, informational and any other data-based services, and communication services.

(q) *United States* means the fifty States of the United States, the District of Columbia, the Commonwealth of Puerto Rico, the Virgin Islands, American Samoa, Guam, the Commonwealth of the Northern Mariana Islands, and the Trust Territory of the Pacific Islands.

§ 325.3 Applying for a certificate of review.

(a) *Place of filing*. The applicant shall submit an original and two copies of a completed application form (ITA 4093–P, OMB control number 0625–0125) by personal delivery during normal business hours or by first class mail to the Office of Export Trading Company Affairs, Room 5618, International Trade Administration, Department of Commerce, Washington, DC 20230. Although not required, the applicant should consider using registered mail or some other delivery method that provides evidence of receipt.

(b) *Contents of application*. Any person may submit an application for certification. The application shall contain, where applicable, the information listed below. Some information, in particular the identification of goods or services that the applicant exports or proposes to export, is requested in a certain form (Standard Industrial Classification [SIC] numbers) if reasonably available. Where information does not exist in this form, the applicant may satisfy the request for information by providing it in some other convenient form. If the applicant is unable to provide any of the information requested or if the applicant believes that any of the information requested would be both burdensome to obtain and unnecessary for a determination on the application, the applicant should state that the information is not being provided or is being provided in lesser detail, and explain why.

(1) Name and principal address of the applicant and of its controlling entity, if any. Include the name, title, address, telephone number, and relationship to the applicant of each individual to whom the Secretary should address correspondence.

(2) The name and principal address of each member, and of each member's controlling entity, if any.

(3) A copy of any legal instrument under which the applicant is organized or will operate. Include copies, as applicable, of its corporate charter, bylaws, partnership, joint venture, membership or other agreements or contracts under which the applicant is organized.

(4) A copy of the applicant's most recent annual report, if any, and that of its controlling entity, if any. To the extent the information is not included in the annual report, or other documents submitted in connection with the application, a description of the applicant's domestic (including import) and export operations, including the nature of its business, the types of products or services in which it deals, and the places where it does business. This description may be supplemented by a chart or table.

(5) A copy of each member's most recent annual report, if any, and that of its controlling entity, if any. To the extent the information is not included in the annual report, or other documents submitted in connection with the application, a description of each member's domestic (including import) and export operations, including the nature of its business, the types of products or services in which it deals, and the places where it does business. This description may be supplemented by a chart or table.

(6) The names, titles, and responsibilities of the applicant's directors, officers, partners and managing officials, and their business affiliations with other members or other businesses that produce or sell any of the types of goods or services described in paragraph (b)(7) of this section.

(7)(i) A description of the goods or services which the applicant exports or proposes to export under the certificate of review. This description should reflect the industry's customary definitions of the products and services.

(ii) If it is reasonably available, an identification of the goods or services according to the Standard Industrial Classification (SIC) number. Goods should normally be identified according to the 7-digit level. Services should normally be identified at the most detailed SIC level available.

(iii) The foreign geographic areas to which the applicant and each member export or intend to export their goods and services.

(8) For each class of the goods, wares, merchandise or services described in paragraph (b)(7) of this section:

(i) The principal geographic area or areas in the United States in which the

applicant and each member sell their goods and services.

(ii) For their previous two fiscal years, the dollar value of the applicant's and each member's (A) total domestic sales, if any; and (B) total export sales, if any. Include the value of the sales of any controlling entities and all entities under their control.

(9) For each class of the goods, wares, merchandise or services described in paragraph (b)(7) of this section, the best information or estimate accessible to the applicant of the total value of sales in the United States by all companies for the last two years. Identify the source of the information or the basis of the estimate.

(10) A description of the specific export conduct which the applicant seeks to have certified. Only the specific export conduct described in the application will be eligible for certification. For each item, the applicant should state the antitrust concern, if any, raised by that export conduct. (Examples of export conduct which applicants may seek to have certified include the manner in which goods and services will be obtained or provided; the manner in which prices or quantities will be set; exclusive agreements with U.S. suppliers or export intermediaries; territorial, quantity, or price agreements with U.S. suppliers or export intermediaries; and restrictions on membership or membership withdrawal. These examples are given only to illustrate the type of export conduct which might be of concern. The specific activities which the applicant may wish to have certified will depend on its particular circumstances or business plans.).

(11) If the export trade, export trade activities, or methods of operation for which certification is sought will involve any agreement or any exchange of information among suppliers of the same or similar products or services with respect to domestic prices, production, sales, or other competitively sensitive business information, specify the nature of the agreement or exchange of information. Such information exchanges are not necessarily impermissible and may be eligible for certification. Whether or not certification is sought for such exchanges, this information is necessary to evaluate whether the conduct for which certification is sought meets the standards of the Act.

(12) A statement of whether the applicant intends or reasonably expects that any exported goods or services covered by the proposed certificate will re-enter the United States, either in their original or modified form. If so, identify the goods or services and the manner in which they may re-enter the U.S.

(13) The names and addresses of the suppliers of the goods and services to be exported (and the goods and services to be supplied by each) unless the goods and services to be exported are to be supplied by the applicant and/or its members.

(14) A proposed non-confidential summary of the export conduct for which certification is sought. This summary may be used as the basis for publication in the FEDERAL REGISTER.

(15) Any other information that the applicant believes will be necessary or helpful to a determination of whether to issue a certificate under the standards of the Act.

(16) (Optional) A draft proposed certificate.

(c) The applicant must sign the application and certify that (1) each member has authorized the applicant to submit the application, and (2) to the best of its belief the information in the application is true, correct, and fully responsive.

(d) *Conformity with regulations.* No application shall be deemed submitted unless it complies with these regulations. Applicants are encouraged to seek guidance and assistance from the Department of Commerce in preparing and documenting their applications.

(e) *Review and acceptance.* The Secretary will stamp the application on the day that it is received in the Office of Export Trading Company Affairs. From that date, the Secretary will have five working days to decide whether the application is complete and can be deemed submitted under the Act. On the date on which the application is deemed submitted, the Secretary will stamp it with that date and notify the applicant that the application has been accepted for review. If

the application is not accepted for review, the Secretary shall advise the applicant that it may file the application again after correcting the deficiencies that the Secretary has specified. If the Secretary does not take action on the application within the five-day period, the application shall be deemed submitted as of the sixth day.

(f) *Withdrawal of application.* The applicant may withdraw an application by written request at any time before the Secretary has determined whether to issue a certificate. An applicant who withdraws an application may submit a new application at any time.

(g) *Supplemental information.* After an application has been deemed submitted, if the Secretary or the Attorney General finds that additional information is necessary to make a determination on the application, the Secretary will ask the applicant in writing to supply the supplemental information. The running of the time period for a determination on the application will be suspended from the date on which the request is sent until the supplemental information is received and is considered complete. The Secretary shall promptly decide whether the supplemental information is complete, and shall notify the applicant of his decision. If the information is being sought by the Attorney General, the supplemental information may be deemed complete only if the Attorney General concurs. If the applicant does not agree to provide the additional information, or supplies information which the Secretary or the Attorney General considers incomplete, the Secretary and the Attorney General will decide whether the information in their possession is sufficient to make a determination on the application. If either the Secretary or the Attorney General considers the information in their possession insufficient, the Secretary may make an additional request or shall deny the application. If they consider the information in their possession sufficient to make a determination on the application, the Secretary shall notify the applicant that the time period for a determination has resumed running.

§ 325.4 Calculating time periods.

(a) When these regulations require action to be taken within a fixed time period, and the last day of the time period falls on a non-working day, the time period shall be extended to the next working day.

(b) The day after an application is deemed submitted shall be deemed the first of the days within which the Secretary must make a determination on the application.

§ 325.5 Issuing the certificate.

(a) *Time period.* The Secretary shall determine whether to issue a certificate within ninety days after the application is deemed submitted (excluding any suspension pursuant to § 325.3(f) of the time period for making a determination). If the Secretary or the Attorney General considers it necessary, and the applicant agrees, the Secretary may take up to an additional thirty days to determine whether to issue a certificate.

(b) *Determination.* The Secretary shall issue a certificate to the applicant if he determines, and the Attorney General concurs, that the proposed export trade, export trade activities and methods of operation will—

(1) Result in neither a substantial lessening of competition or restraint of trade within the United States nor a substantial restraint of the export trade of any competitor of the applicant;

(2) Not unreasonably enhance, stabilize, or depress prices within the United States of the class of the goods, wares, merchandise or services exported by the applicant;

(3) Not constitute unfair methods of competition against competitors who are engaged in the export of goods, wares, merchandise or services of the class exported by the applicant; and

(4) Not include any act that may reasonably be expected to result in the sale for consumption or resale within the United States of the goods, wares, merchandise, or services exported by the applicant.

(c) *Concurrence of the Attorney General.* (1) Not later than seven days after an application is deemed submitted,

the Secretary shall deliver to the Attorney General a copy of the application, any information submitted in connection with the application, and any other relevant information in his possession. The Secretary and the Attorney General shall make available to each other copies of other relevant information that was obtained in connection with the application, unless otherwise prohibited by law.

(2) Not later than thirty days before the day a determination on the application is due, the Secretary shall deliver a proposed certificate to the Attorney General for discussion and comment. If the Attorney General does not agree that the proposed certificate may be issued, he shall, not later than ten days before the day a determination on the application is due, so advise the Secretary and state the reasons for the disagreement. The Secretary with the concurrence of the Attorney General, may modify or revise the proposed certificate to resolve the objections and problems raised by the Attorney General, or deny the application.

(3) If the Attorney General receives the proposed certification by the date specified in the preceding paragraph and does not respond within the time period specified in that paragraph, he shall be deemed to concur in the proposed certificate.

(d) *Content of certificate.* The certificate shall specify the export conduct and all persons or entities which are protected from liability under the antitrust laws. The Secretary may certify the proposed export conduct contained in the application, in whole or in part, with such changes, modifications, terms, or conditions as are appropriate. If the Secretary intends to issue a certificate different from a draft certificate submitted by the applicant, the Secretary shall first consult with the applicant.

(e) *Certificate obtained by fraud.* A certificate shall be void *ab initio* with respect to any export conduct for which a certificate was obtained by fraud.

(f) *Minimum thirty-day period.* The Secretary may not issue a certificate until thirty days after the summary of the application is published in the FEDERAL REGISTER.

§ 325.6 Publishing notices in the Federal Register.

(a) Within ten days after an application is deemed submitted, the Secretary shall deliver to the FEDERAL REGISTER a notice summarizing the application. The notice shall identify the applicant and each member and shall include a summary of the export conduct for which certification is sought. If the Secretary does not intend to publish the summary proposed by the applicant, he shall notify the applicant. Within twenty days after the date the notice is published in the FEDERAL REGISTER, interested parties may submit written comments to the Secretary on the application. The Secretary shall provide a copy of such comments to the Attorney General.

(b) If a certificate is issued, the Secretary shall publish a summary of the certification in the FEDERAL REGISTER. If an application is denied, the Secretary shall publish a notice of denial. Certificates will be available for inspection and copying in the International Trade Administration Freedom of Information Records Inspection Facility.

(c) If the Secretary initiates proceedings to revoke or modify a certificate, he shall publish a notice of his final determination in the FEDERAL REGISTER.

(d) If the applicant requests reconsideration of a determination to deny an application, in whole or in part, the Secretary shall publish notice of his final determination in the FEDERAL REGISTER.

§ 325.7 Amending the certificate.

An application for an amendment to a certificate shall be treated in the same manner as an original application. The application for an amendment shall set forth the proposed amendment(s) and the reasons for them. It shall contain any information specified in § 325.3(b) that is relevant to the determination on the application for an amendment. The effective date of an amendment will be the date on which the application for the amendment was deemed submitted.

§ 325.8 Expediting the certification process.

(a) *Request for expedited action.* (1) An applicant may be granted expedited action on its application in the discretion of the Secretary and the Attorney General. The Secretary and the Attorney General will consider such requests in light of an applicant's showing that it has a special need for a prompt decision. A request for expedited action should include an explanation of why expedited action is needed, including a statement of all relevant facts and circumstances, such as bidding deadlines or other circumstances beyond the control of the applicant, that require the applicant to act in less than ninety days and that have a significant impact on the applicant's export trade.

(2) The Secretary shall advise the applicant within ten days after the application is deemed submitted whether it will receive expedited action. The Secretary may grant the request in whole or in part and process the remainder of the application through the normal procedures. Expedited action may be granted only if the Attorney General concurs.

(b) *Time period.* The Secretary shall determine whether to issue a certificate to the applicant within forty-five days after the Secretary granted the request for expedited action, or within a longer period if agreed to by the applicant (excluding any suspension pursuant to § 325.3(f) of the time period for making a determination). The Secretary may not issue a certificate until thirty days after the summary of the application is published in the FEDERAL REGISTER.

(c) *Concurrence of the Attorney General.* (1) Not later than ten working days before the date on which a determination on the application is due, the Secretary shall deliver a proposed certificate to the Attorney General for discussion and comment. If the Attorney General does not agree that the proposed certificate may be issued, he shall, not later than five working days before the date on which a determination on the application is due, so advise the Secretary and state the reasons for the disagreement. The Secretary, with the concurrence of the Attorney General, may revise the proposed certificate to resolve the objections and problems raised by the Attorney General, or deny the application.

(2) If the Attorney General receives the proposed certificate by the date specified in the preceding paragraph and does not respond within the time period specified in that paragraph, he shall be deemed to concur in the proposed certificate.

§ 325.9 Reconsidering an application that has been denied.

(a) If the Secretary determines to deny an application in whole or in part, he shall notify the applicant in writing of his decision and the reasons for his determination.

(b) Within thirty days after receiving a notice of denial, the applicant may request the Secretary to reconsider his determination.

(1) The request for reconsideration shall include a written statement setting forth the reasons why the applicant believes the decision should be reconsidered, and any additional information that the applicant considers relevant.

(2) Upon the request of the applicant, the Secretary and the Attorney General will meet informally with the applicant and/or his representative to discuss the applicant's reasons why the determination on the application should be changed.

(c) The Secretary shall consult with the Attorney General with regard to reconsidering an application. The Secretary may modify his original determination only if the Attorney General concurs.

(d) The Secretary shall notify the applicant in writing of his final determination after reconsideration and of his reasons for the determination within thirty days after the request for reconsideration has been received.

§ 325.10 Modifying or revoking a certificate.

(a) *Action subject to modification or revocation.* The Secretary shall revoke a certificate, in whole or in part, or modify it, as the Secretary or the Attorney General considers necessary, if:

(1) The export conduct of a person or entity protected by the certificate no

longer complies with the requirements set forth in § 325.4(b);

(2) A person or entity protected by the certificate fails to comply with a request for information under paragraph (b) of this section; or

(3) The certificate holder fails to file a complete annual report.

(b) *Request for information.* If the Secretary or the Attorney General has reason to believe that the export trade, export trade activities, or methods of operation of a person or entity protected by a certificate no longer comply with the requirements set forth in § 325.4(b), the Secretary shall request any information that he or the Attorney General considers to be necessary to resolve the matter.

(c) *Proceedings for the revocation or modification of a certificate*—(1) *Notification letter.* If, after reviewing the relevant information in their possession, it appears to the Secretary or the Attorney General that a certificate should be revoked or modified for any of the reasons set forth in paragraph (a) above, the Secretary shall so notify the certificate holder in writing. The notification shall be sent by registered or certified mail to the address specified in the certificate. The notification shall include a detailed statement of the facts, conduct, or circumstances which may warrant the revocation or modification of the certificate.

(2) *Answer.* The certificate holder shall respond to the notification letter within thirty days after receiving it, unless the Secretary, in his discretion, grants a thirty day extension for good cause shown. The certificate holder shall respond specifically to the statement included with the notification letter and state in detail why the facts, conduct or circumstances described in the notification letter are not true, or if they are true, why they do not warrant the revoking or modifying of the certificate. If the certificate holder does not respond within the specified period, it will be considered an admission of the statements contained in the notification letter.

(3) *Resolution of factual disputes.* Where material facts are in dispute, the Secretary and the Attorney General shall, upon request, meet informally with the certificate holder. The Secretary or the Attorney General may require the certificate holder to provide any documents or information that are necessary to support its contentions. After reviewing the statements of the certificate holder and the documents or information that the certificate holder has submitted, and upon considering other relevant documents or information in his possession, the Secretary shall make proposed findings of the factual matters in dispute. The Attorney General is not bound by the proposed findings.

(4) *Final determination.* The Secretary and the Attorney General shall review the notification letter and the certificate holder's answer to it, the proposed factual findings made under paragraph (c)(3) of this section, and any other relevant documents or information in their possession. If, after review, the Secretary or the Attorney General determines that the export conduct of a person or entity protected by the certificate no longer complies with the standards set forth in § 325.4(b), the Secretary shall revoke or modify the certificate as appropriate. If the Secretary or the Attorney General determines that the certificate holder has failed to comply with the request for information under paragraph (b) of this section, or has failed to file a complete annual report, and that the failure to comply or file should result in revocation of modification, the Secretary shall revoke or modify the certificate as appropriate. The determination will be final and will be issued to the certificate holder in writing. The notice to the certificate holder shall include a statement of the circumstances underlying and the reasons in support of the determination. If the Secretary determines to revoke or modify the certificate, the decision shall specify the effective date of the revocation or modification; this date must be at least thirty days but not more than ninety days after the Secretary notifies the certificate holder of his determination. The Secretary shall publish notice in the FEDERAL REGISTER of a revocation or modification or a decision not to revoke or modify.

(d) *Investigative information.* In proceedings under this section, the Attorney General shall make available to

the Secretary any information that has been obtained in response to Civil Investigative Demands issued under section 304(b)(3) of the Act. Unless prohibited by law, the Attorney General and the Secretary shall also make available to each other any other information which each is relying upon under these proceedings.

§ 325.11 Judicial review.

(a) *Review of certain determinations.* (1) Any person aggrieved by a final determination of the Secretary under § 325.5, § 325.7, § 325.9, or § 325.10 of these regulations may, within thirty days of the determination, bring an action in an appropriate district court of the United States to set aside the determination on the ground that it is erroneous. If a certificate is denied, the applicant may bring suit within thirty days after the notice of denial is published in the FEDERAL REGISTER, or, if the applicant seeks reconsideration, within thirty days after the Secretary publishes in the FEDERAL REGISTER notice of his determination after reconsideration.

(b) For purposes of judicial review, determinations of the Secretary are final when notice is published in the FEDERAL REGISTER.

(c) *Record for judicial review.* For purposes of judicial review, the record shall include all information presented to or obtained by the Secretary which had a bearing on the determination, the determination itself, the supporting statement setting forth the reasons for the determination, and the Attorney General's response to the Secretary indicating concurrence or nonconcurrence.

(d) *Limitation of judicial review.* Except as provided in paragraph (a) of this section, no agency action taken under the Act shall be subject to judicial review.

§ 325.12 Returning the applicant's documents.

(a) Upon the denial or withdrawal of an application for a certificate in its entirety, the applicant may request the return of all copies of the documents submitted by the applicant in connection with the application to the Department of Commerce or the Department of Justice. The applicant shall submit this request in writing to both the Secretary and the Attorney General.

(b) The Secretary and the Attorney General shall return the documents to the applicant within thirty days after they receive the applicant's request.

§ 325.13 Nonadmissibility in evidence.

If the Secretary denies, in whole or in part, an application for a certificate or for an amendment to a certificate, or revokes or amends a certificate, neither the negative determination nor the statement of reasons therefor shall be admissible in evidence in any administrative or judicial proceeding in support of any claim under the antitrust laws.

§ 325.14 Submitting reports.

(a) Not later than each anniversary of a certificate's effective date, the Secretary shall notify the certificate holder of the information to be included in the annual report. This report shall contain any changes relevant to the matters specified in the certificate, an update of the information contained in the application brought current to the anniversary date, and any other information the Secretary considers appropriate, after consultation with the Attorney General.

(b) Not later than forty-five days after each anniversary of a certificate's effective date, a certificate holder shall submit its annual report to the Secretary. The Secretary shall deliver a copy of the annual report to the Attorney General.

(c) Failure to submit a complete annual report may be the basis for modification or revocation of a certificate.

§ 325.15 Relinquishing a certificate.

A certificate holder may relinquish a certificate at any time through written notice to the Secretary. The certificate will cease to be effective on the day the Secretary receives the notice.

§ 325.16 Protecting confidentiality of information.

(a) Any information that is submitted by any person under the Act is exempt from disclosure under the Freedom of Information Act (5 U.S.C. 552).

(b)(1) Except as authorized under paragraph (b)(3) of this section, no officer or employee of the United States shall disclose commercial or financial information submitted under this Act if the information is privileged or confidential, and if disclosing the information would cause harm to the person who submitted it.

(2) A person submitting information shall designate the documents or information which it considers privileged or confidential and the disclosure of which would cause harm to the person submitting it. The Secretary shall endeavor to notify these persons of any requests or demands before disclosing any of this information.

(3) An officer or employee of the United States may disclose information covered under paragraph (b)(1) of this section only under the following circumstances—

(i) Upon a request made by either House of Congress or a Committee of the Congress,

(ii) In a judicial or administrative proceeding subject to issuance of an appropriate protective order,

(iii) With the written consent of the person who submitted the information,

(iv) When the Secretary considers disclosure of the information to be necessary for determining whether or not to issue, amend, or revoke a certificate, if—

(A) The Secretary determines that a non-confidential summary of the information is inadequate; and

(B) The person who submitted the information is informed of the intent to disclose the information, and has an opportunity to advise the Secretary of the potential harm which disclosure may cause,

(v) In accordance with any requirement imposed by a statute of the United States.

(c) In any judicial or administrative proceeding in which disclosure is sought from the Secretary or the Attorney General of any confidential or privileged documents or information submitted under this Act, the Secretary or Attorney General shall attempt to notify the party who submitted the information of the request or demand for disclosure. In appropriate circumstances the Secretary or Attorney General may seek or support an appropriate protective order on behalf of the party who submitted the documents or information.

§ 325.17 Waiver.

The Secretary may waive any of the provisions of this part in writing for good cause shown, if the Attorney General concurs and if permitted by law.

PART 335—IMPORTS OF WORSTED WOOL FABRIC

Sec.

335.1 Purpose.
335.2 Definitions.
335.3 Applications to receive allocation.
335.4 Allocation.
335.5 Licenses.
335.6 Surrender, reallocation and license utilization requirement.

AUTHORITY: Title V of the Trade and Development Act of 2000 (Public Law No. 106-200) as amended by Trade Act of 2002 and the Miscellaneous Trade Act of 2004 (Public Law 108-429), Presidential Proclamation No. 7383 (December 1, 2000).

SOURCE: 66 FR 6461, Jan. 22, 2001, unless otherwise noted.

§ 335.1 Purpose.

This part sets forth regulations regarding the issuance and effect of licenses for the allocation of Worsted Wool Fabric under the TRQs established by Section 501 of the Act, including the new HTS categories 9902.51.15 and 9902.51.16 added by the amended Act.

[70 FR 25777, May 16, 2005]

§ 335.2 Definitions.

For purposes of these regulations and the forms used to implement them:

The Act means the Trade and Development Act of 2000 (Public Law No. 106–200, 114 Stat 251).

The Department means the United States Department of Commerce.

HTS means the Harmonized Tariff Schedule of the United States.

Imports subject to Tariff Rate Quotas are defined by date of presentation as defined in 19 CFR 132.1(d) and 19 CFR 132.11(a).

Licensee means an applicant for an allocation of the Tariff Rate Quotas that receives an allocation and a license.

Production means cutting and sewing garments in the United States.

Tariff Rate Quota or Quotas means the temporary duty reduction provided under Section 501 of the Act for limited quantities of fabrics of worsted wool with average diameters greater than 18.5 micron, certified by the importer as suitable for use in making suits, suit-type jackets, or trousers (HTS heading 9902.51.11), and for limited quantities of fabrics of worsted wool with average diameters of 18.5 microns or less, certified by the importer as suitable for use in making suits, suit-type jackets, or trousers for the benefit of persons (including firms, corporations, or other legal entities) who cut and sew men's and boy's wool suits, suit-type jackets and trousers in the United States (HTS heading 9902.51.15), and worsted wool fabric with average fiber diameters of 18.5 microns or less for the benefit of persons (including firms, corporations, or other legal entities) who weave worsted wool fabric in the United States (HTS 9902.51.16).

Tariff Rate Quota Year means a calendar year for which the Tariff Rate Quotas are in effect.

Worsted Wool Fabric means fabric containing at least 85 percent by weight worsted wool.

Worsted Wool Suits means men's and boys' worsted wool suits, containing at least 85 percent by weight worsted wool fabric.

Worsted Wool Suit-Type Jackets mean men's and boys' worsted wool suit-type jackets, containing at least 85 percent by weight worsted wool fabric.

Worsted Wool Trousers means men's and boys' worsted wool trousers, containing at least 85 percent by weight worsted wool fabric.

[66 FR 6461, Jan. 22, 2001, as amended at 70 FR 25777, May 16, 2005]

§ 335.3 Applications to receive allocation.

(a) In each year prior to a Tariff Rate Quota Year, the Department will cause to be published a FEDERAL REGISTER notice soliciting applications to receive an allocation of the Tariff Rate Quotas.

(b) An application for a Tariff Rate Quota allocation must be received, or postmarked by the U.S. Postal Service, within 30 calendar days after the date of publication of the FEDERAL REGISTER notice soliciting applications.

(c) For applying for TRQs 9902.51.11 or 9902.51.15 during the calendar year of the date of the application, an applicant must have cut and sewed in the United States all three of the following apparel products: Worsted Wool Suits, Worsted Wool Suit-Type Jackets, and Worsted Wool Trousers. The applicant may either have cut and sewn these products on its own behalf or had another person cut and sew the products on the applicant's behalf, provided the applicant owned the fabric at the time it was cut and sewn. The application must contain a statement to this effect. For applying for TRQ 9902.51.16 during the calendar year of the date of the application, an applicant must have woven in the United States worsted wool fabrics with average fiber diameters of 18.5 microns or less, suitable for use in making suits, suit-type jackets, and trousers. The application must contain a statement to this effect.

(d) An applicant must provide the following information in the format set forth in the application form provided by the Department:

(1) *Identification*. Applicant's name, address, telephone number, fax number, and federal tax identification number; name of person submitting the application, and title, or capacity in which the person is acting for the applicant.

(2)(i) *Production*. Applicants for TRQs 9902.51.11 and 9902.51.15 must provide the name and address of each plant or location where Worsted Wool Suits, Worsted Wool Suit-Type Jackets, and Worsted Wool Trousers were cut and sewn or woven by the applicant and the name and address of all plants or locations that cut and sewed such products on behalf of the applicant. Production data, including the following: the quantity and value of the Worsted Wool Suits, Worsted Wool Suit-Type Jackets, and Worsted Wool Trousers cut and sewn in the United States by applicant, or on behalf of applicant, from fabric owned by applicant. This data must indicate actual production (not estimates) of Worsted Wool Suits, Worsted Wool Suit-Type Jackets and Worsted Wool Trousers containing at least 85

percent worsted wool fabric by weight with an average diameter of 18.5 microns or less. This data must also indicate actual production (not estimates) of Worsted Wool Suits, Worsted Wool Suit-Type Jackets and Worsted Wool Trousers containing at least 85 percent worsted wool fabric by weight with average diameter greater than 18.5 microns. Production data must be provided for the first six months of the year of the application. This data will be annualized for the purpose of making Tariff Rate Quota allocations.

(ii) Applicants for TRQ 9902.51.16 must provide the name and address of each plant or location where Worsted Wool Fabric was woven by the applicant. The quantity and value of the Worsted Wool Fabric woven in the United States by applicant. This data must indicate actual production (not estimates) of Worsted Wool Fabric containing at least 85 percent worsted wool fabric by weight with an average diameter of 18.5 microns or less. For applications for the 2005 Tariff Rate Quota year, production data must be provided for full calendar year 2004. For allocations of Tariff Rate Quota years after 2005, production data must be provided for the first six months of the year of the application. This data will be annualized for the purpose of making Tariff Rate Quota allocations.

(3) *Worsted Wool Fabric*. Data indicating the quantity and value of the Worsted Wool Fabric used in reported production.

(4) *Certification*. A statement by the applicant (if a natural person), or on behalf of applicant, by an employee, officer or agent, with personal knowledge of the matters set out in the application, certifying that the information contained therein is complete and accurate, signed and sworn before a Notary Public, and acknowledging that false representations to a federal agency may result in criminal penalties under federal law.

(e) *Confidentiality*. Any business confidential information provided pursuant to this section that is marked business confidential will be kept confidential and protected from disclosure to the full extent permitted by law.

(f) *Record Retention:* The applicant shall retain records substantiating the information provided in § 335.3(d)(2), (3), and (4) for a period of 3 years and the records must be made available upon request by an appropriate U.S. government official.

[66 FR 6461, Jan. 22, 2001, as amended at 70 FR 25777, May 16, 2005]

§ 335.4 Allocation.

(a) For HTS 9902.51.11 and HTS 9902.51.15 each Tariff Rate Quota will be allocated separately. Allocation will be based on an applicant's Worsted Wool Suit production, on a weighted average basis, and the proportion of imported Worsted Wool Fabric consumed in the production of Worsted Wool Suits. In regards to HTS 9902.51.16 the Tariff Rate Quota will be allocated based on an applicant's Worsted Wool Fabric production, on a weighted average basis.

(b) For the purpose of calculating allocations for HTS 9902.51.11 and HTS 9902.51.15 only, Worsted Wool Suit production will be increased by the percentage of imported fabric consumed in the production of Worsted Wool Suits to total fabric consumed in this production. For example, if an applicant uses 30 percent imported fabric in the production of Worsted Wool Suits, that applicant's production level will be increased by 30 percent.

(c) The Department will cause to be published in the FEDERAL REGISTER its determination to allocate the Tariff Rate Quotas and will notify applicants of their respective allocation as soon as possible. Promptly thereafter, the Department will issue licenses.

[66 FR 6461, Jan. 22, 2001, as amended at 70 FR 25777, May 16, 2005]

§ 335.5 Licenses.

(a) Each Licensee will receive a license, which will include a unique control number. The license is subject to the surrender and reallocation provisions in § 335.6.

(b) A license may be exercised only for fabric entered for consumption, or withdrawn from warehouse for consumption, during the Tariff Rate Quota Year specified in the license. A license will be debited on the basis of date of entry for consumption or withdrawal from warehouse for consumption.

(c) A Licensee may import fabric certified by the importer as suitable for use in making suits, suit-type jackets, or trousers under the appropriate Tariff Rate Quota as specified in the license (*i.e.*, under the Tariff Rate Quota for fabric of worsted wool with average fiber diameters greater than 18.5 micron or the Tariff Rate Quota for fabric of worsted wool with average fiber diameters of 18.5 micron or less) up to the quantity specified in the license subject to the Tariff Rate Quota duty rate. Only a Licensee or an importer authorized by a Licensee will be permitted to import fabric under the Tariff Rate Quotas and to receive the Tariff Rate Quota duty rate.

(d) The term of a license shall be the Tariff Rate Quota Year for which it is issued. Fabric may be entered or withdrawn from warehouse for consumption under a license only during the term of that license. The license cannot be used for fabric entered or withdrawn from warehouse for consumption after December 31 of the year of the term of the license.

(e) The importer of record of fabric entered or withdrawn from warehouse for consumption under a license must be the Licensee or an importer authorized by the Licensee to act on its behalf. If the importer of record is the Licensee, the importer must possess the license at the time of filing the entry summary or warehouse withdrawal for consumption (Customs Form 7501).

(f) A Licensee may only authorize an importer to import fabric under the license on its behalf by making such an authorization in writing or by electronic notice to the importer and providing a copy of such authorization to the Department. A Licensee may only withdraw authorization from an importer by notifying the importer, in writing or by electronic notice, and providing a copy to the Department.

(g) The written authorization must include the unique number of the license, must specifically cover the type of fabric imported, and must be in the possession of the importer at the time of filing the entry summary or warehouse withdrawal for consumption (Customs Form 7501), or its electronic equivalent, in order for the importer to obtain the applicable Tariff Rate Quota duty rate.

(h) It is the responsibility of the Licensee to safeguard the use of the license issued. The Department and the U.S. Customs Service will not be liable for any unauthorized or improper use of the license.

§ 335.6 Surrender, reallocation and license utilization requirement.

(a) Not later than September 30 of each Tariff Rate Quota Year, a Licensee that will not import the full quantity granted in a license during the Tariff Rate Quota Year shall surrender the allocation that will not be used to the Department for purposes of reallocation through a written or electronic notice to the Department, including the license control number and the amount being surrendered. The surrender shall be final, and shall apply only to that Tariff Rate Quota Year.

(b) For purposes of this section, ''unused allocation'' means the amount by which the quantity set forth in a license, including any additional amount received pursuant to paragraph (d) of this section, exceeds the quantity entered under the license, excluding any amount surrendered pursuant to paragraph (a) of this section.

(c) The Department will notify Licensees of any amount surrendered and the application period for requests for reallocation. A Licensee that has imported, or intends to import, a quantity of Worsted Wool Fabric exceeding the quantity set forth in its license may apply to receive additional allocation from the amount to be reallocated. The application shall state the maximum amount of additional allocation the applicant will be able to use.

(d) The amount surrendered will be reallocated to Licensees that have applied for reallocation. The entire amount surrendered will be reallocated pro-rata among applicants based on the applicant's share of the annual allocation, but will not exceed the amount set forth in the reallocation application as the maximum amount able to be used.

(e) A Licensee whose unused allocation in a Tariff Rate Quota Year exceeds five percent of the quantity set forth in its license shall be subject to

having its allocation reduced in the subsequent Tariff Rate Quota Year. The subsequent Tariff Rate Quota Year allocation will be reduced from the quantity such Licensee would otherwise have received by a quantity equal to 25 percent of its unused allocation from the prior year. A Licensee whose unused allocation in two or more consecutive Tariff Rate Quota Years exceeds five percent of the quantity set forth in its license shall have its allocation reduced in the subsequent Tariff Rate Quota Year by a quantity equal to 50 percent of its unused allocation from the prior year.

(f) No penalty will be imposed under paragraph (e) of this section if the Licensee demonstrates to the satisfaction of the Department that the unused allocation resulted from breach by a carrier of its contract of carriage, breach by a supplier of its contract to supply the fabric, act of God, or force majeure.

[66 FR 6461, Jan. 22, 2001, as amended at 70 FR 25777, May 16, 2005]

PARTS 336–399 [RESERVED]

CHAPTER IV—FOREIGN-TRADE ZONES BOARD, DEPARTMENT OF COMMERCE

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PART 400—REGULATIONS OF THE FOREIGN-TRADE ZONES BOARD

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AUTHORITY: Foreign-Trade Zones Act of June 18, 1934, as amended (Pub. L. 73–397, 48 Stat. 998–1003 (19 U.S.C. 81a–81u)).

SOURCE: 77 FR 12139, Feb. 28, 2012, unless otherwise noted.

EDITORIAL NOTE: Nomenclature changes to part 400 appear at 78 FR 69289, Nov. 19, 2013.

Subpart A—Scope, Definitions and Authority

§ 400.1 Scope.

(a) This part sets forth the regulations, including the rules of practice and procedure, of the Foreign-Trade Zones Board with regard to foreign-trade zones (FTZs or zones) in the United States pursuant to the Foreign-Trade Zones Act of 1934, as amended (19 U.S.C. 81a–81u). It includes the substantive and procedural rules for the authorization of zones and for the Board's regulation of zone activity. The purpose of zones as stated in the

Act is to ''expedite and encourage foreign commerce, and other purposes.'' The regulations provide the legal framework for accomplishing this purpose in the context of evolving U.S. economic and trade policy, and economic factors relating to international competition.

(b) Part 146 of the customs regulations (19 CFR part 146) governs zone operations, including the admission of merchandise into zones, zone activity involving such merchandise, and the transfer of merchandise from zones.

(c) To the extent zones are ''activated'' under U.S. Customs and Border Protection (CBP) procedures in 19 CFR part 146, and only for the purposes specified in the Act (19 U.S.C. 81c), zones are treated for purposes of the tariff laws and customs entry procedures as being outside the customs territory of the United States. Under zone procedures, foreign and domestic merchandise may be admitted into zones for operations such as storage, exhibition, assembly, manufacture and processing, without being subject to formal customs entry procedures and payment of duties, unless and until the foreign merchandise enters customs territory for domestic consumption. At that time, the importer ordinarily has a choice of paying duties either at the rate applicable to the foreign material in its condition as admitted into a zone, or if used in production activity, to the emerging product. Quota restrictions do not normally apply to foreign goods in zones. The Board can deny or limit the use of zone procedures in specific cases on public interest grounds. Merchandise moved into zones for export (zone-restricted status) may be considered exported for purposes such as federal excise tax rebates and customs drawback. Foreign merchandise (tangible personal property) admitted to a zone and domestic merchandise held in a zone for exportation are exempt from certain state and local *ad valorem* taxes (19 U.S.C. 81o(e)). Articles admitted into zones for purposes not specified in the Act shall be subject to the tariff laws and regular entry procedures, including the payment of applicable duties, taxes, and fees.

§ 400.2 Definitions.

(a) *Act* means the Foreign-Trade Zones Act of 1934, as amended (19 U.S.C. 81a–81u).

(b) *Activation limit* is the size of the physical area of a particular zone or subzone authorized by the Board to be simultaneously in activated status with CBP pursuant to 19 CFR 146.6. The activation limit for a particular zone/subzone is a figure explicitly specified by the Board in authorizing the zone (commonly 2,000 acres) or subzone or, in the absence of a specified figure, the total of the sizes of the approved sites of the zone/subzone.

(c) *Alternative site framework* (ASF) is an optional approach to designation and management of zone sites allowing greater flexibility and responsiveness to serve single-operator/user locations. The ASF was adopted by the Board as a matter of practice in December 2008 (74 FR 1170, January 12, 2009; correction 74 FR 3987, January 22, 2009) and modified by the Board in November 2010 (75 FR 71069, November 22, 2010).

(d) *Board* means the Foreign-Trade Zones Board, which consists of the Secretary of the Department of Commerce (chairman) and the Secretary of the Treasury, or their designated alternates.

(e) *Board Order* is a type of document that indicates a final decision of the Board. Board Orders are generally published in the FEDERAL REGISTER after issuance.

(f) *CBP* means U.S. Customs and Border Protection.

(g) *Executive Secretary* is the Executive Secretary of the Foreign-Trade Zones Board.

(h) *Foreign-trade zone* (FTZ or zone) includes one or more restricted-access sites, including subzones, in or adjacent (as defined by § 400.11(b)(2)) to a CBP port of entry, operated as a public utility (within the meaning of § 400.42) under the sponsorship of a zone grantee authorized by the Board, with zone operations under the supervision of CBP.

(i) *Grant of authority* is a document issued by the Board that authorizes a zone grantee to establish, operate and maintain a zone, subject to limitations and conditions specified in this part and in 19 CFR part 146. The authority

to establish a zone includes the responsibility to manage it.

(j) *Magnet site* means a site intended to serve or attract multiple operators or users under the ASF.

(k) *Modification:* A major modification is a proposed change to a zone that requires action by the FTZ Board; a minor modification is a proposed change to a zone that may be authorized by the Executive Secretary.

(l) *Person* includes any individual, corporation, or entity.

(m) *Port of entry* means a port of entry in the United States, as defined by part 101 of the customs regulations (19 CFR part 101), or a user fee airport authorized under 19 U.S.C. 58b and listed in part 122 of the customs regulations (19 CFR part 122).

(n) *Private corporation* means any corporation, other than a public corporation, which is organized for the purpose of establishing, operating and maintaining a zone and which is chartered for this purpose under a law of the state in which the zone is located.

(o) *Production*, as used in this part, means activity involving the substantial transformation of a foreign article resulting in a new and different article having a different name, character, and use, or activity involving a change in the condition of the article which results in a change in the customs classification of the article or in its eligibility for entry for consumption.

(p) *Public corporation* means a state, a political subdivision (including a municipality) or public agency thereof, or a corporate municipal instrumentality of one or more states.

(q) *Service area* means the jurisdiction(s) within which a grantee proposes to be able to designate sites via minor boundary modifications under the ASF.

(r) *State* includes any state of the United States, the District of Columbia, and Puerto Rico.

(s) *Subzone* means a site (or group of sites) established for a specific use.

(t) *Usage-driven site* means a site tied to a single operator or user under the ASF.

(u) *Zone* means a foreign-trade zone established under the provisions of the Act and these regulations. Where used in this part, the term also includes subzones, unless the context indicates otherwise.

(v) *Zone grantee* is the corporate recipient of a grant of authority for a zone. Where used in this part, the term ''grantee'' means ''zone grantee'' unless otherwise indicated.

(w) *Zone operator* is a person that operates within a zone or subzone under the terms of an agreement with the zone grantee (or third party on behalf of the grantee), with the concurrence of CBP.

(x) *Zone participant* is a current or prospective zone operator, zone user, or property owner.

(y) *Zone plan* includes all the zone sites that a single grantee is authorized to establish.

(z) *Zone site* (site) means a physical location of a zone or subzone. A site is composed of one or more generally contiguous parcels of land organized and functioning as an integrated unit, such as all or part of an industrial park or airport facility.

(aa) *Zone user* is a party using a zone under agreement with a zone operator.

§ 400.3 Authority of the Board.

(a) *In general.* In accordance with the Act and procedures of this part, the Board has authority to:

(1) Prescribe rules and regulations concerning zones;

(2) Issue grants of authority for zones, and approve subzones and modifications to the original zone;

(3) Authorize production activity in zones and subzones as described in this part;

(4) Make determinations on matters requiring Board decisions under this part;

(5) Decide appeals in regard to certain decisions of the Commerce Department's Assistant Secretary for Enforcement and Compliance or the Executive Secretary;

(6) Inspect the premises, operations and accounts of zone grantees, operators and users (and persons undertaking zone-related functions on behalf of grantees, where applicable);

(7) Require zone grantees and operators to report on zone operations;

(8) Report annually to the Congress on zone operations;

(9) Restrict or prohibit zone operations;

(10) Terminate reviews of applications under certain circumstances pursuant to § 400.36(g);

(11) Authorize under certain circumstances the entry of ''zone-restricted merchandise'' (19 CFR 146.44) into the customs territory pursuant to § 400.48;

(12) Impose fines for violations of the Act and this part;

(13) Instruct CBP to suspend activated status pursuant to § 400.62(h);

(14) Revoke grants of authority for cause;

(15) Determine, as appropriate, whether zone activity is or would be in the public interest or detrimental to the public interest, health or safety; and

(16) Issue and discontinue waivers pursuant to § 400.43(f).

(b) *Authority of the Chairman of the Board.* The Chairman of the Board (Secretary of the Department of Commerce) has the authority to:

(1) Appoint the Executive Secretary of the Board;

(2) Call meetings of the Board, with reasonable notice given to each member; and

(3) Submit to the Congress the Board's annual report as prepared by the Executive Secretary.

(c) *Alternates.* Each member of the Board shall designate an alternate with authority to act in an official capacity for that member.

(d) *Authority of the Assistant Secretary for Enforcement and Compliance (Alternate Chairman).* The Commerce Department's Assistant Secretary for Enforcement and Compliance has the authority to:

(1) Terminate reviews of applications under certain circumstances pursuant to § 400.36(g);

(2) Mitigate and assess fines pursuant to §§ 400.62(e) and (f) and instruct CBP to suspend activated status pursuant to § 400.62(h); and

(3) Restrict the use of zone procedures under certain circumstances pursuant to § 400.49(c).

(e) *Determinations of the Board.* Determinations of the Board shall be by the unanimous vote of the members (or alternate members) of the Board, which shall be recorded.

§ 400.4 Authority and responsibilities of the Executive Secretary.

The Executive Secretary has the following responsibilities and authority:

(a) Represent the Board in administrative, regulatory, operational, and public affairs matters;

(b) Serve as director of the Commerce Department's Foreign-Trade Zones staff;

(c) Execute and implement orders of the Board;

(d) Arrange meetings and direct circulation of action documents for the Board;

(e) Arrange with other sections of the Department of Commerce and other governmental agencies for studies and comments on zone issues and proposals;

(f) Maintain custody of the seal, records, files and correspondence of the Board, with disposition subject to the regulations of the Department of Commerce;

(g) Issue notices on zone matters for publication in the FEDERAL REGISTER;

(h) Direct processing of applications and reviews, including designation of examiners and scheduling of hearings, under various sections of this part;

(i) Make determinations on questions pertaining to grantees' applications for subzones as provided in § 400.12(d);

(j) Make recommendations in cases involving questions as to whether zone activity should be prohibited or restricted for public interest reasons, including proceedings and reviews under § 400.5;

(k) Determine questions of scope under § 400.14(d);

(l) Determine whether additional information is needed for evaluation of applications and other requests for decisions under this part, as provided for in various sections of this part, including §§ 400.21–400.25;

(m) Issue instructions, guidelines, forms and related documents specifying time, place, manner and formats for applications and notifications in various sections of this part, including §§ 400.21(b) and 400.43(f);

(n) Determine whether proposed modifications are major modifications

or minor modifications under § 400.24(a)(2);

(o) Determine whether applications meet pre-docketing requirements under § 400.31(b);

(p) Terminate reviews of applications under certain circumstances pursuant to § 400.36(g);

(q) Authorize minor modifications to zones under § 400.38, commencement of production activity under § 400.37(d) and subzone designation under § 400.36(f);

(r) Review notifications for production authority under § 400.37;

(s) Direct monitoring and reviews of zone operations and activity under § 400.49;

(t) Review rate schedules and determine their sufficiency under § 400.44(c);

(u) Assess potential issues and make recommendations pertaining to uniform treatment under § 400.43 and review and decide complaint cases under § 400.45;

(v) Make certain determinations and authorizations pertaining to retail trade under § 400.47;

(w) Authorize under certain circumstances the entry of ''zone-restricted merchandise'' into the customs territory under § 400.48;

(x) Determine the format and deadlines for the annual reports of zone grantees to the Board and direct preparation of an annual report from the Board to Congress under § 400.51(c);

(y) Make recommendations and certain determinations regarding violations and fines, and undertake certain procedures related to the suspension of activated status, as provided in § 400.62; and

(z) Designate an acting Executive Secretary.

§ 400.5 Authority to restrict or prohibit certain zone operations.

The Board may conduct a proceeding, or the Executive Secretary a review, to consider a restriction or prohibition on zone activity. Such proceeding or review may be either self-initiated or in response to a complaint made to the Board by a person directly affected by the activity in question and showing good cause. After a proceeding or review, the Board may restrict or prohibit any admission of merchandise or process of treatment in an activated FTZ site when it determines that such activity is detrimental to the public interest, health or safety.

§ 400.6 Board headquarters.

The headquarters of the Board are located within the U.S. Department of Commerce (Herbert C. Hoover Building), 1401 Constitution Avenue NW., Washington, DC 20230, within the office of the Foreign-Trade Zones staff.

§ 400.7 CBP officials as Board representatives.

CBP officials with oversight responsibilities for a port of entry represent the Board with regard to the zones adjacent to the port of entry in question and are responsible for enforcement, including physical security and access requirements, as provided in 19 CFR part 146.

Subpart B—Ability To Establish Zone; Limitations and Restrictions on Authority Granted

§ 400.11 Number and location of zones and subzones.

(a) *Number of zones—port of entry entitlement.* (1) Provided that the other requirements of this part are met:

(i) Each port of entry is entitled to at least one zone;

(ii) If a port of entry is located in more than one state, each of the states in which the port of entry is located is entitled to a zone; and

(iii) If a port of entry is defined to include more than one city separated by a navigable waterway, each of the cities is entitled to a zone.

(2) Applications pertaining to zones in addition to those approved under the entitlement provision of paragraph (a)(1) of this section may be approved by the Board if it determines that the existing zone(s) will not adequately serve the convenience of commerce.

(b) *Location of zones and subzones—port of entry adjacency requirements.* (1) The Board may approve ''zones in or adjacent to ports of entry'' (19 U.S.C. 81b).

(2) The ''adjacency'' requirement is satisfied if:

(i) A general-purpose zone site is located within 60 statute miles or 90 minutes' driving time (as determined or concurred upon by CBP) from the outer limits of a port of entry boundary as defined in 19 CFR 101.3.

(ii) A subzone meets the following requirements relating to CBP supervision:

(A) Proper CBP oversight can be accomplished with physical and electronic means;

(B) All electronically produced records are maintained in a format compatible with the requirements of CBP for the duration of the record period; and

(C) The operator agrees to present merchandise for examination at a CBP site selected by CBP when requested, and further agrees to present all necessary documents directly to the relevant CBP oversight office.

§ 400.12 Eligible applicants.

(a) *In general.* Subject to the other provisions of this section, public or private corporations may apply for grants of authority to establish zones. The Board shall give preference to public corporations.

(b) *Public corporations and private nonprofit corporations.* The eligibility of public corporations and private nonprofit corporations to apply for a grant of authority shall be supported by enabling legislation of the legislature of the state in which the zone is to be located, indicating that the corporation, individually or as part of a class, is authorized to so apply. Any application must not be inconsistent with the charter or organizational papers of the applying entity.

(c) *Private for-profit corporations.* The eligibility of private for-profit corporations to apply for a grant of authority shall be supported by a special act of the state legislature naming the applicant corporation and by evidence indicating that the corporation is chartered for the purpose of establishing a zone.

(d) *Applicants for subzones (except pursuant to § 400.24(c))*—(1) *Eligibility.* The following entities are eligible to apply to establish a subzone:

(i) The grantee of the closest zone in the same state;

(ii) The grantee of another zone in the same state, which is a public corporation (or a non-public corporation if no such other public corporation exists), if the Board, or the Executive Secretary, finds that such sponsorship better serves the public interest; or

(iii) A state agency specifically authorized to submit such an application by an act of the state legislature.

(2) *Notification of closest grantee.* If an application is submitted under paragraph (d)(1)(ii) or (iii) of this section, the Executive Secretary shall:

(i) Notify, in writing, the grantee specified in paragraph (d)(1)(i) of this section, which may, within 30 days, object to such sponsorship, in writing, with supporting information as to why the public interest would be better served by its acting as sponsor;

(ii) Review such objections prior to docketing the application to determine whether the proposed sponsorship is in the public interest, taking into account:

(A) The objecting zone's structure and operation;

(B) The views of state and local public agencies; and

(C) The views of the proposed subzone operator;

(iii) Notify the applicant and objecting zone in writing of the Executive Secretary's determination;

(iv) If the Executive Secretary determines that the proposed sponsorship is in the public interest, docket the application (see § 400.63 regarding appeals of decisions of the Executive Secretary).

§ 400.13 General conditions, prohibitions and restrictions applicable to authorized zones.

(a) *In general.* Grants of authority issued by the Board for the establishment of zones and any authority subsequently approved for such zones, including those already issued, are subject to the Act and this part and the following general conditions or limitations:

(1) Prior to activation of a zone, the zone grantee or operator shall obtain all necessary permits from federal, state and local authorities, and except as otherwise specified in the Act or this part, shall comply with the requirements of those authorities.

(2) A grant of authority approved under this part includes authority for the grantee to permit the erection of buildings necessary to carry out the approved zone (subject to concurrence of CBP for an activated area of a zone).

(3) Approvals from the grantee (or other party acting on behalf of the grantee, where applicable) and CBP, pursuant to 19 CFR part 146, are required prior to the activation of any portion of an approved zone.

(4) Authority for a zone or a subzone shall lapse unless the zone (in case of subzones, the subzone facility) is activated, pursuant to 19 CFR part 146, and in operation not later than five years from the authorization of the zone or subzone, subject to the provisions of Board Order 849 (61 FR 53305, October 11, 1996).

(5) Zone grantees, operators, and users (and persons undertaking zone-related functions on behalf of grantees, where applicable) shall permit federal government officials acting in an official capacity to have access to the zone and records during normal business hours and under other reasonable circumstances.

(6) Activity involving production is subject to the specific provisions in § 400.14.

(7) A grant of authority may not be sold, conveyed, transferred, set over, or assigned (FTZ Act, section 17; 19 U.S.C. 81q).

(8) Private ownership of zone land and facilities is permitted, provided the zone grantee retains the control necessary to implement the approved zone. Such permission shall not constitute a vested right to zone designation, nor interfere with the Board's regulation of the grantee or the permittee, nor interfere with or complicate the revocation of the grant by the Board. Should title to land or facilities be transferred after a grant of authority is issued, the zone grantee must retain, by agreement with the new owner, a level of control which allows the grantee to carry out its responsibilities as grantee. The sale of zone-designated land/facility for more than its fair market value without zone designation could, depending on the circumstances, be subject to the prohibitions set forth in section 17 of the Act (19 U.S.C. 81q).

(b) *Board authority to restrict or prohibit activity*. Pursuant to section 15(c) of the Act (19 U.S.C. 81o(c)), the Board has authority to ''order the exclusion from [a] zone of any goods or process of treatment that in its judgment is detrimental to the public interest, health, or safety.'' In approvals of proposed production authority pursuant to § 400.14(a), the Board may adopt restrictions to protect the public interest, health, or safety. When evaluating production activity, either as proposed in an application or as part of a review of an operation, the Board shall determine whether the activity is in the public interest by reviewing it in relation to the evaluation criteria contained in § 400.27.

(c) *Additional conditions, prohibitions and restrictions*. Other conditions/requirements, prohibitions and restrictions under Federal, State or local law may apply to authorized zones and subzones.

§ 400.14 Production—requirement for prior authorization; restrictions.

(a) *In general*. Production activity in zones shall not be conducted without prior authorization from the Board. To obtain authorization, the notification process provided for in §§ 400.22 and 400.37 shall be used. If Board review of a notification under § 400.37 results in a determination that further review is warranted for all or part of the notified activity, the application process pursuant to §§ 400.23, 400.31–400.32, 400.34 and 400.36 shall apply to the activity.

(b) *Scope of authority*. Production activity that may be conducted in a particular zone operation is limited to the specific foreign-status materials and components and specific finished products described in notifications and applications that have been authorized pursuant to paragraph (a) of this section, including any applicable prohibitions or restrictions. A determination may be requested pursuant to paragraph (d) of this section as to whether particular activity falls within the

scope of authorized activity. Unauthorized activity could be subject to penalties pursuant to the customs regulations on foreign-trade zones (19 CFR part 146).

(c) *Information about authorized production activity*. The Board shall make available via its Web site information regarding the materials, components, and finished products associated with individual production operations authorized under these and previous regulations, as derived from applications and notifications submitted to the Board.

(d) *Scope determinations*. Determinations may be made by the Executive Secretary as to whether changes in activity are within the scope of the production activity already authorized under this part. When warranted, the procedures of §§ 400.32 and 400.34 shall be followed.

(e) *Restrictions on items subject to antidumping and countervailing duty actions*—(1) *Board policy*. Zone procedures shall not be used to circumvent antidumping duty (AD) and countervailing duty (CVD) actions under 19 CFR part 351.

(2) *Admission of items subject to AD/CVD actions*. Items subject to AD/CVD orders, or items which would be otherwise subject to suspension of liquidation under AD/CVD procedures if they entered U.S. customs territory, shall be placed in privileged foreign status (19 CFR 146.41) upon admission to a zone or subzone. Upon entry for consumption, such items shall be subject to duties under AD/CVD orders or to suspension of liquidation, as appropriate, under 19 CFR part 351.

§ 400.15 Production equipment.

(a) *In general*. Pursuant to section 81c(e) of the FTZ Act, merchandise that is admitted into a foreign-trade zone for use within such zone as production equipment or as parts for such equipment, shall not be subject to duty until such merchandise is completely assembled, installed, tested, and used in the production for which it was admitted. Payment of duty may be deferred until such equipment goes into use as production equipment as part of zone production activity, at which time the equipment shall be entered for consumption as completed equipment.

(b) *Definition of production equipment*. Eligibility for this section is limited to equipment and parts of equipment destined for use in zone production activity as defined in § 400.2(o) of this part. Ineligible for treatment as production equipment under this section are general materials (that are used in the installation of production equipment or in the assembly of equipment) and materials used in the construction or modification of the plant that houses the production equipment.

(c) *Equipment not destined for zone activity*. Production equipment or parts that are not destined for use in zone production activity shall be treated as normal merchandise eligible for standard zone-related benefits (*i.e.*, benefits not subject to the requirements of § 400.14(a)), provided the equipment is entered for consumption or exported prior to its use.

§ 400.16 Exemption from state and local ad valorem taxation of tangible personal property.

Tangible personal property imported from outside the United States and held in a zone for the purpose of storage, sale, exhibition, repackaging, assembly, distribution, sorting, grading, cleaning, mixing, display, manufacturing, or processing, and tangible personal property produced in the United States and held in a zone for exportation, either in its original form or as altered by any of the above processes, shall be exempt from state and local *ad valorem* taxation.

Subpart C—Applications To Establish and Modify Authority

§ 400.21 Application to establish a zone.

(a) *In general*. An application for a grant of authority to establish a zone (including pursuant to the ASF procedures adopted by the Board; see 74 FR 1170, Jan. 12, 2009, 74 FR 3987, Jan. 22, 2009, and 75 FR 71069, Nov. 22, 2010) shall consist of an application letter and detailed contents to meet the requirements of this part.

(b) *Application format*. Applications pursuant to this part shall comply with

any instructions, guidelines, and forms or related documents, published in the FEDERAL REGISTER and made available on the Board's Web site, as established by the Executive Secretary specific to the type of application in question. An application submitted that uses a superseded format shall be processed unless the format has not been current for a period in excess of one year.

(c) *Application letter*. The application letter shall be dated within six months prior to the submission of the application and signed by an officer of the corporation authorized in the resolution for the application (see § 400.21(d)(1)(iii)). The application letter shall also describe:

(1) The relationship of the proposal to the state enabling legislation and the grantee's charter;

(2) The specific authority requested from the Board;

(3) The proposed zone site(s) and facility(ies) and any larger project of which the zone is a part;

(4) The project background;

(5) The relationship of the project to the community's and state's international trade-related goals and objectives;

(6) Any production authority requested; and

(7) Any additional pertinent information needed for a complete summary description of the proposal.

(d) *Detailed contents*. (1) Legal authority for the application shall be documented with:

(i) A current copy of the state enabling legislation described in §§ 400.12(b) and (c);

(ii) A copy of the relevant sections of the applicant's charter or organization papers; and

(iii) A certified copy of a resolution of the applicant's governing body specific to the application authorizing the official signing the application letter. The resolution must be dated no more than six months prior to the submission of the application.

(2) Site descriptions (including a table with site designations when more than one site is involved) shall be documented with:

(i) A detailed description of the zone site, including size, location, and address (and legal description or its equivalent in instances where the Executive Secretary determines it is needed to supplement the maps in the application), as well as dimensions and types of existing and proposed structures, master planning, and timelines for construction of roads, utilities and planned buildings;

(ii) Where applicable, a summary description of the larger project of which the site is a part, including type, size, location and address;

(iii) A statement as to whether the site is within or adjacent to a CBP port of entry (including distance from the limits of the port of entry and, if the distance exceeds 60 miles, driving time from the limits of the port of entry);

(iv) A description of existing or proposed site qualifications, including appropriate land-use zoning (with environmentally sensitive areas avoided) and physical security;

(v) A description of current and planned activities associated with the site;

(vi) A summary description of transportation systems, facilities, and services, including connections from local and regional transportation hubs to the zone;

(vii) A statement regarding the environmental aspects of the proposal;

(viii) The estimated time schedules for construction and activation; and

(ix) A statement as to the possibilities and plans for future expansion of the site.

(3) Operation and financing shall be documented with:

(i) A statement as to site ownership (if not owned by the applicant or proposed operator, evidence as to their legal right to use the site);

(ii) A discussion of plans for operations at the site;

(iii) A commitment to satisfy the requirements for CBP automated systems; and

(iv) A summary of the plans for financing the project.

(4) Economic justification shall be documented with:

(i) A statement of the community's overall economic and trade-related goals and strategies in relation to those of the region and state, including a reference to the plan or plans on

which the goals are based and how they relate to the zone project;

(ii) An economic profile of the community including discussion of:

(A) Dominant sectors in terms of employment or income;

(B) Area strengths and weaknesses;

(C) Unemployment rates; and

(D) Area foreign trade statistics;

(iii) A statement as to the role and objective of the zone project and a discussion of the anticipated economic impact, direct and indirect, of the zone project, including references to public costs and benefits, employment, and U.S. international trade;

(iv) A separate justification for each proposed site, including a specific explanation addressing the degree to which the site may duplicate types of facilities at other proposed or existing sites in the zone;

(v) A statement as to the need for zone services in the community, with specific expressions of interest from proposed zone users and letters of intent from those firms that are considered prime prospects for each specific proposed site; and

(vi) For any production activity to be conducted at a proposed site, the separate requirements of § 400.14(a) must also be met.

(5) Maps and site plans shall include the following documents:

(i) State and county maps showing the general location of the proposed site(s) in terms of the area's transportation network;

(ii) For any proposed site, a legible, detailed site plan of the zone area showing zone boundaries in red, with street name(s), and showing existing and proposed structures; and

(iii) For proposals involving a change in existing zones, one or more maps showing the relationship between existing zone sites and the proposed changes.

(e) *ASF applications.* In addition to the general application requirements of this section, applications under the ASF shall include the following, where applicable:

(1) Service area.

(2) Appropriate information regarding magnet sites.

(3) Appropriate information regarding usage-driven sites.

(f) *Additional information.* The Board or the Executive Secretary may require additional information needed to evaluate proposals adequately.

(g) *Amendment of application.* The Board or the Executive Secretary may allow amendment of an application. Amendments which substantively expand the scope of an application shall be subject to comment period requirements such as those of § 400.32(c)(2) with a minimum comment period of 30 days.

(h) *Drafts.* Applicants are encouraged to submit a draft application to the Executive Secretary for review. A draft application must be complete with the possible exception of the application letter and/or resolution from the grantee.

(i) *Format and number of copies.* Unless the Executive Secretary alters the requirements of this paragraph, the applicant shall submit an original (including original documents to meet the requirements of paragraphs (c) and (d)(1)(iii) of this section) and one copy of the application, both on 8½ ″ × 11″ (216 × 279 mm) paper, and an electronic copy.

(j) *Where to submit an application:* Executive Secretary, Foreign-Trade Zones Board, U.S. Department of Commerce, 1401 Constitution Avenue NW., Washington, DC 20230. Options for submission of electronic copies are described on the FTZ Board's Web site.

EFFECTIVE DATE NOTE: At 77 FR 12139, Feb. 28, 2012, § 400.21 was added. This section contains information collection and recordkeeping requirements and will not become effective until approval has been given by the Office of Management and Budget.

§ 400.22 Notification for production authority.

Notifications requesting production authority pursuant to § 400.14(a) shall comply with any instructions, guidelines, and forms or related documents, published in the FEDERAL REGISTER and made available on the Board's Web site, as established by the Executive Secretary. Notifications shall contain the following information:

(a) Identity of the user and its location;

(b) Materials, components and finished products associated with the proposed activity, including the tariff schedule categories (6-digit HTSUS) and tariff rates; and

(c) Information as to whether any material or component is subject to a trade-related measure or proceeding (e.g., AD/CVD order or proceeding, suspension of liquidation under AD/CVD procedures).

EFFECTIVE DATE NOTE: At 77 FR 12139, Feb. 28, 2012, § 400.22 was added. This section contains information collection and recordkeeping requirements and will not become effective until approval has been given by the Office of Management and Budget.

§ 400.23 Application for production authority.

In addition to any applicable requirements set forth in § 400.21, an application requesting production authority pursuant to § 400.37(c) shall include:

(a) A summary as to the reasons for the application and an explanation of its anticipated economic effects;

(b) Identity of the user and its corporate affiliation;

(c) A description of the proposed activity, including:

(1) Finished products;

(2) Imported (foreign-status) materials and components;

(3) For each finished product and imported material or component, the tariff schedule category (6-digit HTSUS), tariff rate, and whether the material or component is subject to a trade-related measure or proceeding (e.g., AD/CVD order or proceeding, suspension of liquidation under AD/CVD procedures);

(4) Domestic inputs, foreign inputs, and plant value added as percentages of finished product value;

(5) Projected shipments to domestic market and export market (percentages);

(6) Estimated total or range of annual value of benefits to proposed user (broken down by category), including as a percent of finished product value;

(7) Annual production capacity (current and planned) for the proposed FTZ activity, in units;

(8) Information to assist the Board in making a determination under §§ 400.27(a)(3) and 400.27(b);

(9) Information as to whether alternative procedures have been considered as a means of obtaining the benefits sought;

(10) Information on the industry involved and extent of international competition; and

(11) Economic impact of the operation on the area; and

(d) Any additional information requested by the Board or the Executive Secretary in order to conduct the review.

EFFECTIVE DATE NOTE: At 77 FR 12139, Feb. 28, 2012, § 400.23 was added. This section contains information collection and recordkeeping requirements and will not become effective until approval has been given by the Office of Management and Budget.

§ 400.24 Application for expansion or other modification to zone.

(a) *In general.* (1) A grantee may apply to the Board for authority to expand or otherwise modify its zone (including pursuant to the ASF procedures adopted by the Board; see 74 FR 1170, Jan. 12, 2009, 74 FR 3987, Jan. 22, 2009, and 75 FR 71069, Nov. 22, 2010).

(2) The Executive Secretary, in consultation with CBP as appropriate, shall determine whether the proposed modification involves a major change in the zone plan and is thus subject to paragraph (b) of this section, or is minor and subject to paragraph (c) of this section. In making this determination the Executive Secretary shall consider the extent to which the proposed modification would:

(i) Substantially modify the plan originally approved by the Board; or

(ii) Expand the physical dimensions of the approved zone area as they relate to the scope of operations envisioned in the original plan.

(b) *Major modification to zone.* An application for a major modification of an approved zone shall be submitted in accordance with the requirements of § 400.21, except that the content submitted pursuant to § 400.21(d)(4) (economic justification) shall relate specifically to the proposed change.

(c) *Minor modification to zone.* Other applications or requests under this subpart shall be submitted in letter form with information and documentation necessary for analysis, as determined

by the Executive Secretary, who shall determine whether the proposed change is a minor one subject to this paragraph (c) instead of paragraph (b) of this section (see § 400.38). Such applications or requests include those for minor revisions of general-purpose zone or subzone boundaries based on immediate need, as well as for designation as a subzone of all or part of an existing zone site(s) (or site(s) that qualifies for usage-driven status), where warranted by the circumstances and so long as the subzone activity remains subject to the activation limit (see § 400.2(b)) for the zone in question.

(d) *Applications for other revisions to authority*. Applications or requests for other revisions to authority, such as for Board action to establish or modify an activation limit for a zone, modification of a restriction or reissuance of a grant of authority, shall be submitted in letter form with information and documentation necessary for analysis, as determined by the Executive Secretary. If the change involves the removal or significant modification of a restriction included by the Board in its approval of authority or the reissuance of a grant of authority, the review procedures of §§ 400.31–400.34 and 400.36 shall be followed, where relevant. If not, the procedure set forth in § 400.38 shall generally apply (although the Executive Secretary may elect to follow the procedures of §§ 400.31–400.34 and 400.36 when warranted).

§ 400.25 Application for subzone designation.

In addition to the requirements of §§ 400.21(d)(1)(i) and (ii) pertaining to legal authority, § 400.21(d)(2)(vii) pertaining to environmental aspects of the proposal, and §§ 400.21(d)(3)(i) and (iii) pertaining to operation, a grantee's application for subzone designation shall contain the following information:

(a) The name of the operator/user for which subzone designation is sought;

(b) The nature of the activity at the proposed subzone;

(c) The address(es) and physical size (acreage or square feet) of the proposed subzone location(s); and

(d) One or more maps conforming to the requirements of section § 400.21(d)(5)(ii). For any production activity to be conducted at a proposed subzone, the separate requirements of § 400.14(a) must be met.

EFFECTIVE DATE NOTE: At 77 FR 12139, Feb. 28, 2012, § 400.25 was added. This section contains information collection and recordkeeping requirements and will not become effective until approval has been given by the Office of Management and Budget.

§ 400.26 Criteria for evaluation of applications for expansions, subzones or other modifications of zones.

The Board shall consider the following factors in determining whether to approve an application pertaining to a zone:

(a) The need for zone services in the port of entry area, taking into account existing as well as projected international trade-related activities and employment impact;

(b) The suitability of each proposed site and its facilities based on the plans presented for the site, including existing and planned buildings, zone-related activities, and the timeframe for development of the site;

(c) The specific need and justification for each proposed site, taking into account existing sites and/or other proposed sites;

(d) The extent of state and local government support, as indicated by the compatibility of the zone project with the community's master plan or stated goals for economic development and the views of state and local public officials involved in economic development. Such officials shall avoid commitments that anticipate the outcome of Board decisions;

(e) The views of persons likely to be materially affected by proposed zone activity; and

(f) If the application involves production activity, the criteria in § 400.27.

§ 400.27 Criteria applicable to evaluation of applications for production authority.

The Board shall apply the criteria set forth in this section in determining whether to approve an application for authority to conduct production activity pursuant to § 400.23. The Board's evaluation shall take into account such factors as market conditions, price sensitivity, degree and nature of foreign competition, intra-industry and

intra-firm trade, effect on exports and imports, ability to conduct the proposed activity outside the United States with the same U.S. tariff impact, analyses conducted in connection with prior Board actions, and net effect on U.S. employment and the U.S. economy:

(a) *Threshold factors.* It is the policy of the Board to authorize zone activity only when it is consistent with public policy and, in regard to activity involving foreign merchandise subject to quotas or inverted tariffs, when zone procedures are not the sole determining cause of imports. Thus, without undertaking a review of the economic factors enumerated in § 400.27(b), the Board shall deny or restrict authority for proposed or ongoing activity if it determines that:

(1) The activity is inconsistent with U.S. trade and tariff law, or policy which has been formally adopted by the Executive branch;

(2) Board approval of the activity under review would seriously prejudice U.S. tariff and trade negotiations or other initiatives; or

(3) The activity involves items subject to quantitative import controls or inverted tariffs, and the use of zone procedures would be the direct and sole cause of imports that, but for such procedures, would not likely otherwise have occurred, taking into account imports both as individual items and as components of imported products.

(b) *Economic factors.* After its review of threshold factors, if there is a basis for further consideration of the application, the Board shall consider the following factors in determining the net economic effect of the proposed activity:

(1) Overall employment impact;

(2) Exports and re-exports;

(3) Retention or creation of value-added activity;

(4) Extent of value-added activity;

(5) Overall effect on import levels of relevant products;

(6) Extent and nature of foreign competition in relevant products;

(7) Impact on related domestic industry, taking into account market conditions; and

(8) Other relevant information relating to the public interest and net economic impact considerations, including technology transfers and investment effects.

(c) The significant public benefit(s) that would result from the production activity, taking into account the factors in paragraphs (a) and (b) of this section.

(d) *Contributory effect.* In assessing the significance of the economic effect of the proposed zone activity as part of the consideration of economic factors, and considering whether it would result in a significant public benefit(s), the Board may consider the contributory effect zone savings have as an incremental part of cost-effectiveness programs adopted by companies to improve their international competitiveness.

§ 400.28 Burden of proof.

(a) *In general.* An applicant must demonstrate to the Board that its application meets the criteria set forth in these regulations. Applications for production-related authority shall contain evidence regarding the positive economic effect(s) and significant public benefit(s) that would result from the proposed activity and may submit evidence and comments concerning policy considerations.

(b) *Comments on applications.* Comments submitted regarding applications should provide information that is probative and substantial in addressing the matter at issue relative to the nature of the proceeding, including any evidence of the projected direct impact of the proposed authority.

(c) *Requests for extensions of comment periods.* Requests for extensions of comment periods shall include a description of the potential impact of the proposed authority and the specific actions or steps for which additional time is necessary.

(d) *Responses to comments on applications.* Submissions in response to comments received during the public comment period or pursuant to § 400.33(e)(1) or § 400.34(a)(5)(iv)(A) should contain evidence that is probative and substantial in addressing the matter at issue.

§ 400.29 Application fees.

(a) *In general.* This section sets forth a uniform system of charges in the

form of fees to recover some costs incurred by the Foreign-Trade Zones staff of the Department of Commerce in processing the applications listed in paragraph (b) of this section. The legal authority for the fees is 31 U.S.C. 9701, which provides for the collection of user fees by agencies of the Federal Government.

(b) *Uniform system of user fee charges.* The following fee schedule establishes fees for certain types of applications and requests for authority on the basis of their estimated average processing time. Applications combining requests for more than one type of approval are subject to the fee for each category.

(1) Additional general-purpose zones (§ 400.21; § 400.11(a)(2))—$3,200

(2) Special-purpose subzones (§ 400.25):

(i) Not involving production activity or involving production activity with fewer than three products—$4,000

(ii) Production activity with three or more products—$6,500

(3) Expansions (§ 400.24(b))—$1,600

(c) Applications submitted to the Board shall include a currently dated check drawn on a national or state bank or trust company of the United States or Puerto Rico in the amount called for in paragraph (b) of this section. Uncertified checks must be acceptable for deposit by the Board in a Federal Reserve bank or branch.

(d) Applicants shall make their checks payable to the U.S. Department of Commerce ITA. The checks will be deposited by ITA into the Treasury receipts account. If applications are found deficient under § 400.31(b), or are withdrawn by applicants prior to formal docketing, refunds will be made.

Subpart D—Procedures for Application Evaluation and Reviews

§ 400.31 General application provisions and pre-docketing review.

(a) *In general.* Sections 400.31–400.36 and 400.38 outline the procedures to be followed in docketing and processing applications submitted under §§ 400.21, 400.23, 400.24(b), and 400.25. In addition, these sections set forth the time schedules which will ordinarily apply in processing applications. The schedules will guide applicants with respect to the time frames for each of the procedural steps involved in the Board's review. Under these schedules, applications for subzone designation will generally be processed within 5 months (3 months for applications subject to § 400.36(f)) and applications to establish or expand zones will generally be processed within 10 months. The general timeframe to process applications for production authority is 12 months, but additional time is most likely to be required for applications requesting production authority when a complex or controversial issue is involved or when the applicant or other party has obtained a time extension for a particular procedural step. The timeframes specified apply from the time of docketing. Each applicant is responsible for submitting an application that meets the docketing requirements in a timeframe consistent with the applicant's need for action on its request.

(b) *Pre-docketing review.* The grantee shall submit a single complete copy of an application for pre-docketing review. (For requests relating to production in already approved zone or subzone space, the request may be submitted by the operator, provided the operator at the same time furnishes a copy of the request to the grantee.) The Executive Secretary shall determine whether the application satisfies the requirements of §§ 400.12, 400.21, 400.23–400.25, and other applicable provisions of this part such that the application is sufficient for docketing. If the pre-docketing copy of the application is deficient, the Executive Secretary shall notify the applicant within 30 days of receipt of the pre-docketing copy, specifying the deficiencies. An affected zone participant may also be contacted regarding relevant application elements requiring additional information or clarification. If the applicant does not correct the deficiencies and submit a corrected pre-docketing application copy within 30 days of notification, the pre-docketing application (single copy) shall be discarded.

§ 400.32 Procedures for docketing applications and commencement of case review.

(a) Once the pre-docketing copy of the application is determined to be sufficient, the Executive Secretary shall notify the applicant within 15 days so that the applicant may then submit the original and requisite number of copies (which shall be dated upon receipt at the headquarters of the Board) for docketing by the Board. For applications subject to § 400.29, the original shall be accompanied with a check in accordance with that section.

(b) After the procedures described in paragraph (a) of this section are completed, the Executive Secretary shall within 15 days of receipt of the original and required number of copies of the application:

(1) Formally docket the application, thereby initiating the proceeding or review;

(2) Assign a case-docket number; and

(3) Notify the applicant of the formal docketing action.

(c) After initiating a proceeding based on an application under §§ 400.21 and 400.23–400.25, the Executive Secretary shall:

(1) Designate an examiner to conduct a review and prepare a report or memorandum with recommendations for the Board;

(2) Publish in the FEDERAL REGISTER a notice of the formal docketing of the application and initiation of the review. The notice shall include the name of the applicant, a description of the proposal, and an invitation for public comment. If the application requests authority for production activity and indicates that a component to be used in the activity is subject to a trade-related measure or proceeding (e.g., AD/CVD order or proceeding, suspension of liquidation under AD/CVD procedures), the notice shall include that information. For applications to establish or expand a zone or for production authority, the comment period shall normally close 60 days after the date the notice appears. For applications for subzone designation, the comment period shall normally close 40 days after the date the notice appears. However, if a hearing is held (see § 400.52), the comment period shall not close prior to 15 days after the date of the hearing. The closing date for general comments shall ordinarily be followed by an additional 15-day period for rebuttal comments. Requests for extensions of a comment period will be considered, subject to the standards of § 400.28(c). Submissions must meet the requirements of § 400.28(b). With the exception of submissions by the applicant, any new evidence or new factual information and any written arguments submitted after the deadlines for comments shall not be considered by the examiner or the Board. Submission by the applicant of new evidence or new factual information may result in the (re)opening of a comment period. A comment period may otherwise be opened or reopened for cause;

(3) Transmit or otherwise make available copies of the docketing notice and the application to CBP;

(4) Arrange for hearings, as appropriate;

(5) Transmit the report and recommendations of the examiner and any comments by CBP to the Board for appropriate action; and

(6) Notify the applicant in writing (via electronic means, where appropriate) and publish notice in the FEDERAL REGISTER of the Board's determination.

(d) *CBP review.* Any comments by CBP pertaining to the application shall be submitted to the Executive Secretary by the conclusion of the public comment period described in paragraph (c)(2) of this section.

§ 400.33 Examiner's review—application to establish or modify a zone.

An examiner assigned to review an application to establish, reorganize or expand a zone shall conduct a review taking into account the factors enumerated in § 400.26 and other appropriate sections of this part, which shall include:

(a) Conducting or participating in hearings scheduled by the Executive Secretary;

(b) Reviewing case records, including public comments;

(c) Requesting information and evidence from parties of record;

(d) Developing information and evidence necessary for evaluation and

analysis of the application in accordance with the criteria of the Act and this part; and

(e) Developing recommendations to the Board and submitting a report to the Executive Secretary, generally within 150 days of the close of the period for public comment (75 days for reorganizations under the ASF) (see § 400.32):

(1) If the recommendations are unfavorable to the applicant, they shall be considered preliminary and the applicant shall be notified in writing (via electronic means, where appropriate) of the preliminary recommendations and the factors considered in their development. The applicant shall be given 30 days from the date of notification, subject to extensions upon request by the applicant, which shall not be unreasonably withheld, in which to respond to the recommendations and submit additional evidence pertinent to the factors considered in the development of the preliminary recommendations. Public comment may be invited on preliminary recommendations when warranted.

(2) If the response contains new evidence on which there has been no opportunity for public comment, the Executive Secretary shall publish a notice in the FEDERAL REGISTER after completion of the review of the response. The new material shall be made available for public inspection and the FEDERAL REGISTER notice shall invite further public comment for a period of not less than 30 days, with an additional 15-day period for rebuttal comments.

(3) If the bases for an examiner's recommendation(s) change as a result of new evidence, the applicable procedures of §§ 400.33(e)(1) and (2) shall be followed.

(4) When necessary, a request may be made to CBP to provide further comments, which shall be submitted within 45 days after the request.

§ 400.34 Examiner's review—application for production authority.

(a) The examiner shall conduct a review taking into account the factors enumerated in this section, § 400.27, and other appropriate sections of this part, which shall include:

(1) Conducting or participating in hearings scheduled by the Executive Secretary;

(2) Reviewing case records, including public comments;

(3) Requesting information and evidence from parties of record and others, as warranted;

(4) Developing information and evidence necessary for analysis of the threshold factors and the economic factors enumerated in § 400.27; and

(5) Conducting an analysis to include:

(i) An evaluation of policy considerations pursuant to §§ 400.27(a)(1) and (2);

(ii) An evaluation of the economic factors enumerated in §§ 400.27(a)(3) and 400.27(b), which shall include an evaluation of the economic impact on domestic industry, considering both producers of like products and producers of components/materials used in the production activity;

(iii) Conducting appropriate industry research and surveys, as necessary; and

(iv) Developing recommendations to the Board and submitting a report to the Executive Secretary, generally within 150 days of the close of the period for public comment (although additional time may be required in circumstances such as when the applicant or other party has obtained a time extension for a particular procedural step):

(A) If the recommendations are unfavorable to the applicant, they shall be considered preliminary and the applicant shall be notified in writing (via electronic transmission where appropriate) of the preliminary recommendations and the factors considered in their development. The applicant shall be given 45 days from the date of notification in which to respond to the recommendations and submit additional evidence pertinent to the factors considered in the development of the preliminary recommendations. Public comment may be invited on preliminary recommendations when warranted.

(B) If the response contains new evidence on which there has not been an opportunity for public comment, the Executive Secretary shall publish notice in the FEDERAL REGISTER after completion of the review of the response. The new material shall be made

available for public inspection and the FEDERAL REGISTER notice shall invite further public comment for a period of not less than 30 days, with an additional 15-day period for rebuttal comments.

(C) If the bases for an examiner's recommendation(s) change as a result of new evidence, the applicable procedures of §§ 400.34(a)(5)(iv)(A) and (B) shall be followed.

(b) *Methodology and evidence.* The evaluation of an application for production authority shall include the following steps:

(1) The first phase (§ 400.27(a)) involves consideration of threshold factors. If an examiner or reviewer makes a negative finding on any of the factors in § 400.27(a) in the course of a review, the applicant shall be informed pursuant to § 400.34(a)(5)(iv)(A). When threshold factors are the basis for a negative recommendation in a review of ongoing activity, the zone grantee and directly affected party shall be notified and given an opportunity to submit evidence pursuant to § 400.34(a)(5)(iv)(A). If the Board determines in the negative regarding any of the factors in § 400.27(a), it shall deny or restrict authority for the proposed or ongoing activity.

(2) The second phase (§ 400.27(b)) involves consideration of the enumerated economic factors, taking into account their relative weight and significance under the circumstances. Previous evaluations in similar cases shall be considered.

§ 400.35 Examiner's review—application for subzone designation.

The examiner shall develop a memorandum with a recommendation on whether to approve the application, taking into account the criteria enumerated in § 400.26. To develop that memorandum, the examiner shall review the case records including public comments, and may request information and evidence from parties of record, as necessary. The examiner's memorandum shall generally be submitted to the Board within 30 days of the close of the period for public comment. However, additional time may be taken as necessary for analysis of any public comment in opposition to the application or if other complicating factors arise.

(a) If the examiner's recommendation is unfavorable to the applicant, it shall be considered preliminary and the applicant shall be notified in writing (via electronic means, where appropriate) of the preliminary recommendation and the factors considered in its development. The applicant shall be given 30 days from the date of notification, subject to extensions upon request by the applicant, which shall not be unreasonably withheld, in which to respond to the recommendation and submit additional evidence pertinent to the factors considered in the development of the preliminary recommendations. Public comment may be invited on preliminary recommendations when warranted.

(b) If the response contains new evidence on which there has not been an opportunity for public comment, the Executive Secretary shall publish notice in the FEDERAL REGISTER after completion of the review of the response. The new material shall be made available for public inspection and the FEDERAL REGISTER notice shall invite further public comment for a period of not less than 30 days, with an additional 15-day period for rebuttal comments.

(c) If the bases for an examiner's recommendation(s) change as a result of new evidence, the applicable procedures of §§ 400.35(a) and (b) shall be followed.

(d) The CBP adviser shall be requested, when necessary, to provide further comments, which shall be submitted within 45 days after the request.

§ 400.36 Completion of case review.

(a) The Executive Secretary shall circulate the examiner's report (memorandum in the case of subzone applications) with recommendations to CBP headquarters staff and to the Treasury Board member for review and action.

(b) In its advisory role to the Board, CBP headquarters staff shall provide any comments within 15 days.

(c) The vote of the Treasury Board member shall be returned to the Executive Secretary within 30 days, unless a formal meeting is requested (see, § 400.3(b)).

(d) The Commerce Department shall complete the decision process within 15 days of receiving the vote of the Treasury Board member, and the Executive Secretary shall publish the Board decision.

(e) If the Board is unable to reach a unanimous decision, the grantee shall be notified and provided an opportunity to meet with the Board members or their delegates.

(f) *Delegation of authority to approve subzone designation.* The Board delegates to the Executive Secretary authority to approve applications requesting subzone designation, on the condition that such approved subzones will be subject to the activation limit for the zone in question.

(g) The Board or the Commerce Department's Assistant Secretary for Enforcement and Compliance may opt to terminate review of an application with no further action if the applicant has failed to provide in a timely manner information needed for evaluation of the application. A request from an applicant for an extension of time to provide information needed for evaluation of an application shall not be unreasonably withheld. The Executive Secretary may terminate review of an application where the overall circumstances presented in the application no longer exist as a result of a material change, and shall notify the applicant in writing of the intent to terminate review and allow 30 days for a response prior to completion of any termination action. The Executive Secretary shall confirm the termination in writing (by electronic means, where appropriate) to the applicant.

§ 400.37 Procedure for notification of proposed production activity.

(a) *Submission of notification.* A notification for production authority pursuant to §§ 400.14(a) and 400.22 shall be submitted simultaneously to the Board's Executive Secretary and to CBP (as well as to the grantee of the zone, if the grantee is not the party making the submission).

(b) *Initial processing of notification.* Upon receipt of a complete notification conforming to the requirements of the notification format established by the Executive Secretary pursuant to § 400.22, the Executive Secretary shall commence processing the notification. Unless the Executive Secretary determines, based on the content of the notification, to recommend further review to the Board without inviting public comment on the notification, the Executive Secretary shall transmit to the FEDERAL REGISTER a notice inviting public comment on the notification (with such comment subject to the standards of § 400.28(b)). The notice shall be transmitted to the FEDERAL REGISTER within 15 days of the commencement of the processing of the notification, and the comment period shall normally close 40 days after the date the notice appears. If the notification indicates that a material or component to be used in the activity is subject to an AD/CVD order or proceeding, or suspension of liquidation under AD/CVD procedures, the notice shall include that information. Evidence, factual information and written arguments submitted in response to the notice must be submitted by the deadline for comments. Any comments by CBP pertaining to the notification shall be submitted to the Executive Secretary by the end of the comment period. Within 80 days of receipt of the notification, the Executive Secretary shall submit to the Board a recommendation on whether further review of all or part of the activity subject to the notification is warranted. The Executive Secretary's recommendation shall consider comments submitted during the comment period, any guidance from specialists within government, and other relevant factors based on the Board staff's assessment of the notification, in the context of the factors set forth in § 400.27.

(c) *Determinations regarding further review.* Within 30 days of receipt of the Executive Secretary's recommendation, the Board members shall provide to the Executive Secretary their determinations on whether further review is warranted concerning all or part of the activity that is the subject of the notification. If either Board member makes a determination that further review is warranted, the activity that is subject

to further review (which may constitute all or part of the notified activity) shall not be conducted without authorization pursuant to the application requirements of § 400.23 and the procedural requirements of §§ 400.31–400.34 and 400.36 (or the provisions of paragraph (d) of this section, where applicable). Within 120 days of receipt of the notification, the Executive Secretary shall notify the party that submitted the notification (and the zone grantee, if it did not submit the notification) that:

(1) Further review is not needed for all or part of the activity that is the subject of the notification, and that the activity in question may be conducted; or

(2) Further review is needed for all or part of the activity that is the subject of the notification, with such activity precluded absent specific authorization.

(d) *Authorization for commencement of an activity on an interim basis.* For an activity notified pursuant to § 400.14(a), the Executive Secretary may authorize the commencement of some or all of the activity on an interim basis. Such authorization shall only be made based on a showing that commencement of the activity is time-sensitive, with such showing to include comments from CBP that specifically address the projected timeframe for commencement of the activity. Interim authorization shall not apply to materials or components subject to an AD/CVD order or proceeding or suspension of liquidation under AD/CVD procedures. As warranted, a determination that further review is needed for all or some of the notified activity pursuant to § 400.37(c) may also revoke the interim authorization until the Board makes a determination after conduct of that further review.

§ 400.38 Procedure for application for minor modification of zone.

(a) The Executive Secretary shall make a determination in cases under § 400.24(c) involving minor modifications of zones that do not require Board action, such as boundary modifications, including certain relocations, and shall notify the applicant in writing of the decision within 30 days of the determination that the application or request can be processed under § 400.24(c). The applicant shall submit a copy of its application/request to CBP no later than the time of the applicant's submission of the application/request to the Executive Secretary.

(b) If not previously provided to the applicant for inclusion with the applicant's submission of the application/request to the Executive Secretary, any CBP comments on the application/request shall be provided to the Executive Secretary within 20 days of the applicant's submission of the application/request to the Executive Secretary.

Subpart E—Operation of Zones and Administrative Requirements

§ 400.41 General operation of zones; requirements for commencement of operations.

(a) *In general.* Zones shall be operated by or under the general management of zone grantees, subject to the requirements of the FTZ Act and this part, as well as those of other federal, state and local agencies having jurisdiction over the site(s) and operation(s). Zone grantees shall ensure that the reasonable zone needs of the business community are served by their zones. CBP officials with oversight responsibilities for a port of entry represent the Board with regard to the zones adjacent to the port of entry in question and are responsible for enforcement, including physical security and access requirements, as provided in 19 CFR part 146.

(b) *Requirements for commencement of operations in a zone.* The following actions are required before operations in a zone may commence:

(1) The grantee shall submit the zone schedule to the Executive Secretary, as provided in § 400.44.

(2) Approval or concurrence from the grantee and approval from CBP, pursuant to 19 CFR part 146, are required prior to the activation of any portion of an approved zone; and

(3) Prior to activation of a zone, the operator shall obtain all necessary permits from federal, state and local authorities, and except as otherwise specified in the Act or this part, shall comply with the requirements of those authorities.

§ 400.42 Operation as public utility.

(a) *In general.* Pursuant to Section 14 of the FTZ Act (19 U.S.C. 81n), each zone shall be operated as a public utility, and all rates and charges for all services or privileges within the zone shall be fair and reasonable. A rate or charge (fee) may be imposed on zone participants to recover costs incurred by or on behalf of the grantee for the performance of the grantee function. Such a rate or charge must be directly related to the service provided by the grantee (for which the fee recovers some or all costs incurred) to the zone participants. Rates or charges may incorporate a reasonable return on investment. Rates or charges may not be tied to the level of benefits derived by zone participants. Other than the uniform rates and charges assessed by, or on behalf of, the grantee, zone participants shall not be required (either directly or indirectly) to utilize or pay for a particular provider's zone-related products or services.

(b) *Delayed compliance date.* The compliance date for the requirements of paragraph (a) of this section shall be February 28, 2014.

§ 400.43 Uniform treatment.

Pursuant to Section 14 of the FTZ Act (19 U.S.C. 81n), a grantee shall afford to all who may apply to make use of or participate in the zone uniform treatment under like conditions. Treatment of zone participants within a zone (including application of rates and charges) shall not vary depending on whether a zone participant has procured any zone-related product or service or engaged a particular supplier to provide any such product or service.

(a) *Agreements to be made in writing.* Any agreement or contract related to one or more grantee function(s) and involving a zone participant (e.g., agreements with property owners and agreements with zone operators) must be in writing.

(b) *Evaluation of proposals.* A grantee (or person undertaking a zone-related function(s) on behalf of a grantee, where applicable) shall apply uniform treatment in the evaluation of proposals from zone participants. Uniform treatment does not require acceptance of all proposals by zone participants, but the bases for a grantee's decision on a particular proposal must be consistent with the uniform treatment requirement.

(c) *Justification for differing treatment.* Given the requirement for uniform treatment under like conditions, for any instance of different treatment of different zone participants, a grantee (or person undertaking a zone-related function(s) on behalf of a grantee, where applicable) must be able to provide upon request by the Executive Secretary a documented justification for any difference in treatment.

(d) *Avoidance of non-uniform treatment.* To avoid non-uniform treatment of zone participants, persons (as defined in § 400.2(l)) within key categories set out in paragraph (d)(2) of this section shall not undertake any of the key functions set out in paragraph (d)(1) of this section (except in specific circumstances where the Board has authorized a waiver pursuant to paragraph (f) of this section).

(1) Key functions are:

(i) Taking action on behalf of a grantee, or making recommendations to a grantee, regarding the disposition of proposals or requests by zone participants pertaining to FTZ authority or activity (including activation by CBP);

(ii) Approving, or being a party to, a zone participant's agreement with the grantee (or person acting on behalf of the grantee) pertaining to FTZ authority or activity (including activation by CBP); or

(iii) Overseeing zone participants' operations on behalf of a grantee.

(2) Key categories of persons are:

(i) A person that currently engages in, or which has during the preceding twelve months engaged in, offering/providing a zone-related product/service to or representing a zone participant in the grantee's zone;

(ii) Any person that stands to gain from a person's offer/provision of a zone-related product/service to or representation of a zone participant in the zone; or

(iii) Any person related, as defined in paragraph (e) of this section, to the person identified in paragraphs (d)(2)(i) and (ii) of this section.

(e) *Definition of related persons.* For purposes of this section, persons that are related include:

(1) Members of a family or members of a household. The term members of a family means spouses, parents, grandparents, children, grandchildren, siblings (including half-siblings and stepsiblings), aunts, uncles, nieces, nephews, and first cousins, as well as the parents, children, and siblings of a spouse, and the spouse of a sibling, child or parent;

(2) Organizations that are wholly or majority-owned by members of the same family or members of the same household;

(3) An officer or director of an organization and that organization;

(4) Partners;

(5) Employers and their employees;

(6) An organization and any person directly or indirectly owning, controlling, or holding with power to vote, 20 percent or more of the outstanding voting stock or shares of that organization;

(7) Any person that controls any other person and that other person (the term control means the power, direct or indirect, whether or not exercised, through any means, to determine, direct, or decide important matters affecting an entity); or

(8) Any two or more persons who directly control, are controlled by, or are under common control with, any person (see definition of control in paragraph (e)(7) of this section).

(f) *Waivers.* The grantee or other person subject to paragraph (d) of this section may submit an application requesting that the Board issue a waiver exempting from the prohibition of that paragraph a person's undertaking a specific key function(s) listed in paragraph (d)(1) of this section. Using the format developed by the Executive Secretary, an application for a waiver shall explain in detail how the person falls within a key category(ies) set out in paragraph (d)(2) of this section, and the specific key function(s) listed in paragraph (d)(1) of this section that would be undertaken by the person. After receipt of an application requesting a waiver, the Executive Secretary may solicit additional information or clarification, as necessary, including from the person submitting the application and from the grantee. Based on the information presented in the application, the Executive Secretary shall make a recommendation to the Board. A waiver shall be authorized only by an affirmative vote by the Board. If the Board votes not to authorize a waiver or to discontinue a waiver, the applicant shall be notified in writing and allowed 30 days to present evidence in response. In deciding whether to grant a waiver, the Board shall determine whether there is an unacceptable risk that the waiver would result in nonuniform treatment being afforded by the person undertaking a key function(s) listed in paragraph (d)(1) of this section. In its assessment, the Board shall consider the specific circumstances presented, including the nature and extent of the person's involvement in undertaking a key function(s) listed in paragraph (d)(1) of this section. In general, the more significant the requester's involvement or interest in the undertaking of a key function(s) listed in paragraph (d)(1) of this section or activity(ies) identified in paragraph (d)(2)(i) of this section, the greater the risk will be that nonuniform treatment will be afforded and, thus, the less likely it will be that a waiver will be granted. The Board may attach to individual waivers such conditions or limitations (including, for example, the length of time a waiver is to be effective) as it deems necessary.

(g) *Requests for determinations.* A grantee or other party may request a determination by the Executive Secretary regarding the consistency of an actual or potential arrangement with the requirements of this section.

(h) *Identification of person undertaking function(s) on behalf of grantee.* The Board, the Commerce Department's Assistant Secretary for Enforcement and Compliance, or the Executive Secretary, may require a zone grantee to identify any person undertaking a zone-related function(s) on behalf of the grantee.

(i) *Delayed compliance date.* If, as of April 30, 2012, existing business arrangements do not comply with the requirements of paragraphs (a) and (d) of

this section, such existing arrangements shall be terminated or brought into compliance no later than February 28, 2014.

EFFECTIVE DATE NOTE: At 77 FR 12139, Feb. 28, 2012, § 400.43 was added. Paragraph (f) contains information collection and recordkeeping requirements and will not become effective until approval has been given by the Office of Management and Budget.

§ 400.44 Zone schedule.

(a) *In general.* The zone grantee shall submit to the Executive Secretary (in both paper and electronic copies) a zone schedule which sets forth the elements required in this section. No element of a zone schedule (including any amendment to the zone schedule) may be considered to be in effect until such submission has occurred. If warranted, the Board may subsequently amend the requirements of this section by Board Order.

(b) Each zone schedule shall include:

(1) A title page, which shall include the name of the zone grantee and the date of the current schedule;

(2) A table of contents;

(3) Internal rules/regulations and policies for the zone;

(4) All rates or charges assessed by or on behalf of the grantee;

(5) Information regarding any operator which has an agreement with the grantee to offer services to the public, including the operator's rates or charges for all zone-specific services offered; and

(6) An appendix with definitions of any FTZ-related terms used in the zone schedule (as needed).

(c) The Executive Secretary may review the zone schedule (or any amendment to the zone schedule) to determine whether it contains sufficient information for zone participants concerning the operation of the zone and the grantee's rates and charges as provided in paragraphs (b)(3) and (b)(4) of this section. If the Executive Secretary determines that the zone schedule (or amendment) does not satisfy these requirements, the Executive Secretary shall notify the zone grantee. The Executive Secretary may also conduct a review under 400.45(b).

(d) Amendments to the zone schedule shall be prepared and submitted in the manner described in paragraph (a) of this section, and listed in the concluding section of the zone schedule, with dates. No rates/charges or other provisions required for the zone schedule may be applied by, or on behalf of, the grantee unless those specific rates/charges or provisions are included in the most recent zone schedule submitted to the Board and made available to the public in compliance with paragraph (e) of this section.

(e) *Availability of zone schedule.* A complete copy of the zone schedule shall be freely available for public inspection at the offices of the zone grantee and any operator offering FTZ services to the user community. The Board shall make copies of zone schedules available on its Web site.

(f) *Delayed compliance date.* The compliance date for the requirements of this section shall be February 28, 2014.

§ 400.45 Complaints related to public utility and uniform treatment.

(a) *In general.* A zone participant may submit to the Executive Secretary a complaint regarding conditions or treatment that the complaining party believes are inconsistent with the public utility and uniform treatment requirements of the FTZ Act and these regulations. Complaints may be made on a confidential basis, if necessary. Grantees (and persons undertaking zone-related functions on behalf of grantees, where applicable) shall not enter into or enforce provisions of agreements or contracts with zone participants that would require zone participants to disclose to other parties, including the grantee (or person undertaking a zone-related function(s) on behalf of a grantee, where applicable), any confidential communication with the Board under this section.

(b) *Objections to rates and charges.* A zone participant showing good cause may object to any rate or charge related to the zone on the basis that it is not fair and reasonable by submitting to the Executive Secretary a complaint in writing with supporting information. If necessary, such a complaint may be made on a confidential basis pursuant to § 400.45(a). The Executive Secretary shall review the complaint and issue a report and decision, which

shall be final unless appealed to the Board within 30 days. The Board or the Executive Secretary may otherwise initiate a review for cause. The primary factor considered in reviewing fairness and reasonableness is the cost of the specific services rendered. Where those costs incorporate charges to the grantee by one or more parties undertaking functions on behalf of the grantee, the Board may consider the costs incurred by those parties (using best estimates, as necessary). The Board will also give consideration to any extra costs incurred relative to non-zone operations, including return on investment and reasonable out-of-pocket expenses.

§ 400.46 Grantee liability.

(a) *Exemption from liability*. A grant of authority, *per se*, shall not be construed to make the zone grantee liable for violations by zone participants. The role of the zone grantee under the FTZ Act and the Board's regulations is to provide general management of the zone to ensure that the reasonable needs of the business community are served. It would not be in the public interest to discourage public entities from zone sponsorship because of concern about liability without fault.

(b) *Exception to exemption from liability*. A grantee could create liability for itself that otherwise would not exist if the grantee undertakes detailed operational oversight of or direction to zone participants. Examples of detailed operational oversight or direction include review of an operator's inventory-control or record-keeping systems, specifying requirements for such a system to be used by an operator, and review of CBP documentation related to an operator's zone receipts and shipments.

§ 400.47 Retail trade.

(a) *In general*. Retail trade is prohibited in activated areas of zones, except that 1) sales or other commercial activity involving domestic, duty-paid, and duty-free goods may be conducted within an activated area of a zone under a permit issued by the zone grantee and approved by the Board, and 2) no permits shall be necessary for sales involving domestic, duty-paid or duty-free food and non-alcoholic beverage products sold within the zone or subzone for consumption on premises by individuals working therein. The Executive Secretary shall determine whether an activity is retail trade, subject to review by the Board when the zone grantee requests such a review with a good cause. Determinations on whether an activity constitutes retail trade shall be based on precedent established through prior rulings by CBP, as appropriate. Such prior rulings shall remain effective unless a determination is issued to modify their effect (after a notice-and-comment process, as appropriate). Determinations made by the Executive Secretary pursuant to this section shall be made available to the public via the Board's Web site.

(b) *Procedure*. Requests for Board approval under this section shall be submitted in letter form, with supporting documentation, to the Executive Secretary, who is authorized to act for the Board in these cases, after consultation with CBP as necessary.

(c) *Criteria*. In evaluating requests under this section, the Executive Secretary and CBP shall consider factors that may include:

(1) Whether any public benefits would result from approval; and

(2) The economic effect such activity would have on the retail trade outside the zone in the port of entry area.

§ 400.48 Zone-restricted merchandise.

(a) *In general*. Merchandise in zone-restricted status (19 CFR 146.44) may be entered into the customs territory of the United States only when the Board determines that the entry would be in the public interest. Such entries are subject to the customs laws and the payment of applicable duties and excise taxes (19 U.S.C. 81c(a), 4th proviso).

(b) *Criteria*. In making the determination described in paragraph (a) of this section, the Board shall consider:

(1) The intent of the parties;

(2) Why the merchandise cannot be exported;

(3) The public benefit involved in allowing entry of the merchandise; and

(4) The recommendation of CBP.

(c) *Procedure.* (1) A request for authority to enter ''zone-restricted'' merchandise into U.S. customs territory shall be made to the Executive Secretary in letter form by the zone grantee or by the operator responsible for the merchandise (with copy to the grantee), with supporting information and documentation.

(2) The Executive Secretary shall investigate the request and prepare a report for the Board.

(3) The Executive Secretary may act for the Board under this section with respect to requests that involve merchandise valued at 500,000 dollars or less and that are accompanied by a letter of concurrence from CBP.

§ 400.49 Monitoring and reviews of zone operations and activity.

(a) *In general.* Ongoing zone operation(s) and activity may be reviewed by the Board or the Executive Secretary at any time to determine whether they are in the public interest and in compliance and conformity with the Act and regulations, as well as authority approved by the Board. Reviews involving production activity may also be conducted to determine whether there are changed circumstances that raise questions as to whether the activity is detrimental to the public interest, taking into account the factors enumerated in § 400.27. The Board may prescribe special monitoring requirements in its decisions when appropriate.

(b) *Conduct of reviews.* Reviews may be initiated by the Board, the Commerce Department's Assistant Secretary for Enforcement and Compliance, or the Executive Secretary; or, they may be undertaken in response to requests from parties directly affected by the activity in question showing good cause based on the provision of information that is probative and substantial in addressing the matter in issue. After initiation of a review, any affected party shall provide in a timely manner any information requested as part of the conduct of the review. If a party fails to timely provide information requested as part of such a review, a presumption unfavorable to that party may be made.

(c) *Prohibition or restriction.* Upon review, if a finding is made that zone activity is no longer in the public interest (taking into account the factors enumerated in § 400.27 where production activity is involved), the Board or the Commerce Department's Assistant Secretary for Enforcement and Compliance may prohibit or restrict the activity in question. Such prohibitions or restrictions may be put in place after a preliminary review (e.g., prior to potential steps such as a public comment period) if circumstances warrant such action until further review can be completed. The procedures of § 400.34(a)(5)(iv)(A) shall be followed to notify the grantee of the affected zone and allow for a response prior to the final imposition of a prohibition or restriction. The appropriateness of a delayed effective date shall be considered.

Subpart F—Records, Reports, Notice, Hearings and Information

§ 400.51 Records and reports.

(a) *Records and forms.* Zone records and forms shall be prepared and maintained in accordance with the requirements of CBP and the Board, consistent with documents issued by the Board specific to the zone in question, and the zone grantee shall retain copies of applications/requests it submits to the Board in electronic or paper format.

(b) *Maps and drawings.* Zone grantees or operators, and CBP, shall keep current layout drawings of approved sites as described in § 400.21(d)(5), showing activated portions, and a file showing required activation approvals. The zone grantee shall furnish necessary maps to CBP.

(c) *Annual reports.* (1) Each zone grantee shall submit a complete and accurate annual report to the Board within 90 days after the end of the reporting period. Each zone operator shall submit a complete and accurate annual report to the zone grantee in a timeframe that will enable the grantee's timely submission of a complete and accurate annual report to the Board. A zone grantee may request an extension of the deadline for its report, as warranted. The Executive Secretary

may authorize such extensions, with decisions on such authorizations taking into account both the circumstances presented and the importance of the Board submitting its annual report to Congress in a timely manner. Annual reports must be submitted in accordance with any instructions, guidelines, forms and related documents specifying place, manner and format(s) prescribed by the Executive Secretary. In the event that a grantee has not received all necessary annual report information from an operator in a timely manner, the grantee may submit its annual report on time and note the absence of the missing information.

(2) The Board shall submit an annual report to Congress.

§ 400.52 Notices and hearings.

(a) *In general.* The Executive Secretary shall publish notice in the FEDERAL REGISTER inviting public comment on applications and notifications for Board action (see, §§ 400.32 and 400.37(b)), and with regard to other reviews or matters considered under this part when public comment is necessary. An applicant under §§ 400.21, 400.24(b) and 400.25 shall give appropriate notice of its proposal in a local, general-circulation newspaper at least 15 days prior to the close of the public comment period for the proposal in question. The Board, the Secretary of Commerce, the Commerce Department's Assistant Secretary for Enforcement and Compliance, or the Executive Secretary, as appropriate, may schedule and/or hold hearings during any proceedings or reviews conducted under this part whenever necessary or appropriate.

(b) *Requests for hearings.* (1) A party who may be materially affected by the zone activity in question and who shows good cause may request a hearing during a proceeding or review.

(2) The request must be made within 30 days of the beginning of the period for public comment (see § 400.32) and must be accompanied by information establishing the need for the hearing and the basis for the requesting party's interest in the matter.

(3) A determination as to the need for the hearing shall be made by the Commerce Department's Assistant Secretary for Enforcement and Compliance within 15 days after the receipt of such a request.

(c) *Procedure for public hearings.* The Board shall publish notice in the FEDERAL REGISTER of the date, time and location of a public hearing. All participants shall have the opportunity to make a presentation. Applicants and their witnesses shall ordinarily appear first. The presiding officer may adopt time limits for individual presentations.

§ 400.53 Official records; public access.

(a) *Content.* The Executive Secretary shall maintain at the location stated in § 400.54(e) an official record of each proceeding within the Board's jurisdiction. The Executive Secretary shall include in the official record all timely evidence, factual information, and written argument, and other material developed by, presented to, or obtained by the Board in connection with the proceeding. While there is no requirement that a *verbatim* record shall be kept of public hearings, the proceedings of such hearings shall ordinarily be recorded and transcribed when significant opposition to a proposal is involved.

(b) *Opening and closing of official record.* The official record opens on the date the Executive Secretary dockets an application or receives a request or notification that satisfies the applicable requirements of this part and closes on the date of the final determination in the proceeding or review, as applicable.

(c) *Protection of the official record.* Unless otherwise ordered in a particular case by the Executive Secretary, the official record shall not be removed from the Department of Commerce. A certified copy of the record shall be made available to any court before which any aspect of a proceeding is under review, with appropriate safeguards to prevent disclosure of business proprietary or privileged information.

§ 400.54 Information.

(a) *Request for information.* The Executive Secretary, on behalf of the Board,

may request submission of any information, including business proprietary information, and written argument necessary or appropriate to the proceeding.

(b) *Public information*. Except as provided in paragraph (c) of this section, the Board shall consider all information submitted in a proceeding to be public information, and if the person submitting the information does not agree to its public disclosure, the Board shall return the information and not consider it in the proceeding. Information to meet the basic requirements of §§ 400.21–400.25 is inherently public information to allow meaningful public evaluation pursuant to those sections and § 400.32.

(c) *Business proprietary information*. Persons submitting business proprietary information and requesting that it be protected from public disclosure shall mark the cover page, as well as the top of each page on which such information appears, ''business proprietary.'' Any business proprietary document submitted for a proceeding other than pursuant to § 400.45 shall contain brackets at the beginning and end of each specific piece of business proprietary information contained in the submission. Any such business proprietary submission shall also be accompanied by a public version that contains all of the document's contents except the information bracketed in the business proprietary version, with the cover page and the top of each additional page marked ''public version.'' Any information for which business proprietary treatment is claimed must be ranged (*i.e.*, presented as a number or upper and lower limits that approximate the specific business proprietary figure) or summarized in the public version. If a submitting party maintains that certain information is not susceptible to summarization or ranging, the public version must provide a full explanation specific to each such piece of information regarding why summarization or ranging is not feasible.

(d) *Disclosure of information*. Disclosure of public information shall be governed by 15 CFR part 4.

(e) *Availability of information*. Public information in the official record shall be available at the Office of the Executive Secretary, Foreign-Trade Zones Board, U.S. Department of Commerce Building, 1401 Constitution Avenue NW., Washington, DC 20230 and may also be available electronically over the Internet via *http://www.trade.gov/ftz* (or a successor Internet address).

Subpart G—Penalties and Appeals to the Board

§ 400.61 Revocation of authority.

(a) *In general*. As provided in this section, the Board can revoke in whole or in part authority for a zone or subzone whenever it determines that the zone grantee has violated, repeatedly and willfully, the provisions of the Act.

(b) *Procedure*. When the Board has reason to believe that the conditions for revocation, as described in paragraph (a) of this section, are met, the Board shall:

(1) Notify the grantee of the zone in question in writing stating the nature of the alleged violations, provide the grantee an opportunity to request a hearing on the proposed revocation, and notify any known operators in the zone;

(2) Conduct a hearing, if requested or otherwise if appropriate;

(3) Make a determination on the record of the proceeding not earlier than four months after providing notice to the zone grantee under paragraph (b)(1) of this section; and

(4) If the Board's determination is affirmative, publish a notice of revocation of authority, in whole or in part, in the FEDERAL REGISTER.

(c) As provided in section 18 of the Act (19 U.S.C. 81r(c)), the grantee of the zone or subzone in question may appeal an order of the Board revoking authority.

§ 400.62 Fines, penalties and instructions to suspend activated status.

(a) *In general*. Fines are authorized solely for specific violations of the FTZ Act or the Board's regulations as detailed in §§ 400.62(b) and (c). Each specific violation is subject to a fine of not more than 1,000 dollars (as adjusted for inflation pursuant to § 400.62(j)), with each day during which a violation

continues constituting a separate offense subject to imposition of such a fine (FTZ Act, section 19; 19 U.S.C. 81s). This section also establishes the party subject to the fine which, depending on the type of violation, would be the zone operator, grantee, or a person undertaking one or more zone-related functions on behalf of the grantee, where applicable. In certain circumstances, the Board or the Assistant Secretary for Enforcement and Compliance could instruct CBP to suspend the activated status of all or part of a zone or subzone. Violations of the FTZ Act or the Board's regulations (including the sections pertaining to uniform treatment and submission of annual reports), failure to pay fines, or failure to comply with an order prohibiting or restricting activity may also result in the Executive Secretary's suspending the processing of any requests to the Board and staff relating to the zone or subzone in question. In circumstances where non-compliance pertains to only a subset of the operations in a zone, suspensions of activated status and suspensions of the processing of requests shall be targeted to the specific non-compliant operation(s).

(b) *Violations involving requirement to submit annual report.* A grantee's failure to submit a complete and accurate annual report pursuant to section 16 of the FTZ Act (19 U.S.C. 81p(b)) and § 400.51(c)(1) of these regulations constitutes a violation subject to a fine, with each day of continued failure to submit the report constituting a separate offense subject to a fine of not more than 1,000 dollars (as adjusted for inflation pursuant to § 400.62(j)). Further, each day during which a zone operator fails to submit to the zone's grantee the information required for the grantee's timely submission of a complete and accurate annual report to the Board shall constitute a separate offense subject to a fine of not more than 1,000 dollars (as adjusted for inflation pursuant to § 400.62(j)). Consistent with § 400.46, if the grantee submits a timely report to the Board identifying any operator that has not provided complete and timely information in response to a timely request(s) by the grantee, the grantee shall not be subject to a fine-assessment action stemming from the operator's failure to timely provide its report.

(c) *Violations involving uniform treatment.* Failure by a grantee or a person undertaking one or more zone-related functions on behalf of the grantee to comply with the uniform treatment requirement of section 14 of the FTZ Act (19 U.S.C. 81n) or the provisions of § 400.43 of these regulations constitutes a violation, with each day of continued violation constituting a separate offense subject to a fine of not more than 1,000 dollars (as adjusted for inflation pursuant to § 400.62(j)).

(d) *Procedures for determination of violations and imposition of fines.* When the Board or the Executive Secretary has reason to believe that a violation pursuant to §§ 400.62(b) and (c) has occurred and that the violation warrants the imposition of a fine (such as a situation where a party has previously been notified of action required for compliance and has failed to take such action within a reasonable period of time), the following steps shall be taken:

(1) The Executive Secretary shall notify the party or parties responsible for the violation and the zone grantee in writing stating the nature of the alleged violation, and provide the party(ies) a specified period (no less than 30 days, with consideration given to any requests for an extension, which shall not be unreasonably withheld) to respond in writing;

(2) The Executive Secretary shall conduct a hearing, if requested or otherwise if appropriate. Parties may be represented by counsel at the hearing, and any evidence and testimony of witnesses in the proceeding shall be presented. A transcript of the hearing shall be produced and a copy shall be made available to the parties;

(3) The Executive Secretary shall make a recommendation on the record of the proceeding not earlier than the later of 15 days after the deadline for the party(ies)'s response under paragraph (d)(1) of this section or 15 days after the date of a hearing held under paragraph (d)(2) of this section. If the recommendation is for an affirmative determination of a violation, the Executive Secretary shall also recommend the amount of the fine to be imposed; and

(4) The Board shall make a determination regarding the finding of a violation and imposition of a fine based on the Executive Secretary's recommendation under paragraph (d)(3) of this section. For related actions where the total sum of recommended fines is no more than 10,000 dollars (50,000 dollars in the case of violations pursuant to paragraph (b) of this section), the Board delegates to the Executive Secretary the authority to make a determination.

(e) *Mitigation*—(1) *In general*. The Commerce Department's Assistant Secretary for Enforcement and Compliance may approve the mitigation (reduction or elimination) of an imposed fine based on specific evidence presented by the affected party. Authority is delegated to the Executive Secretary to mitigate a fine where the total sum of fines imposed on a party for related actions does not exceed 10,000 dollars (50,000 dollars in the case of violations pursuant to paragraph (b) of this section). Mitigating evidence and argument pertaining to mitigating factors must be submitted within 30 days of the determination described in paragraph (d)(4) of this section, subject to requests for extension for cause, the granting of which shall not be unreasonably withheld.

(2) *Mitigating factors*. Factors to be taken into account in evaluating potential mitigation include:

(i) A good record of a violator over the preceding five years with regard to the type of violation(s) at issue;

(ii) The violation was due to the action of another party despite violator's adherence to the requirements of the FTZ Act and the Board's regulations;

(iii) Immediate remedial action by the violator to avoid future violations;

(iv) A violator's cooperation with the Board (beyond the degree of cooperation expected from a person under investigation for a violation) in ascertaining the facts establishing the violation;

(v) A violation's resulting from a clerical error or similar unintentional negligence; and

(vi) Such other factors as the Board, or the Executive Secretary, deems appropriate to consider in the specific circumstances presented.

(f) *Assessment of fines*. After evaluating submitted mitigating evidence and argument, where applicable, the Commerce Department's Assistant Secretary for Enforcement and Compliance may assess an imposed fine (in whole or in part). Authority is delegated to the Executive Secretary to assess a fine where the total sum of the imposed fines for related actions does not exceed 10,000 dollars (50,000 dollars in the case of violations pursuant to paragraph (b) of this section).

(g) *Time for payment*. Full payment of an assessed fine must be made within 30 days of the date of the assessment or within such longer period of time as may be specified. Payment shall be made in the manner specified by the Commerce Department's Assistant Secretary for Enforcement and Compliance or the Executive Secretary.

(h) *Procedures for instruction to suspend activated status*. If a fine assessed pursuant to §§ 400.62(d) through (g) has not been paid within 90 days of the specified deadline for payment, if there is a repeated and willful failure to comply with a requirement of the FTZ Act or the Board's regulations, or if there is a repeated and willful failure to comply with a prohibition or restriction on activity imposed by an order of the Board or an order of the Commerce Department's Assistant Secretary for Enforcement and Compliance pursuant to § 400.49(c), the Board or the Commerce Department's Assistant Secretary for Enforcement and Compliance may instruct CBP to suspend the activated status of the zone operation(s) in question (or, if appropriate, the suspension may be limited to a particular activity of a zone operator, such as suspension of the privilege to admit merchandise), and the suspension shall remain in place until the failure to pay a fine, failure to comply with a requirement of the FTZ Act or the Board's regulations, or failure to comply with an order's prohibition or restriction on activity has been remedied. In determining whether to instruct CBP to suspend the activated status of a zone operation in the circumstances noted, the following steps shall be taken:

(1) *Notification of party(ies)*. The Executive Secretary shall notify the responsible party(ies) in writing stating the

nature of the failure to timely pay a fine, to comply with a requirement of the FTZ Act or the Board's regulations or to comply with a prohibition or restriction on activity imposed by an order of the Board or an order of the Commerce Department's Assistant Secretary for Enforcement and Compliance. If the grantee is not one of the responsible parties notified, the Executive Secretary shall also provide a copy of the notification to the grantee. The responsible party(ies) shall be provided a specified period (of not less than 15 days) to respond in writing to the notification;

(2) *Hearing*. If the notified responsible party(ies) or the zone's grantee requests a hearing (or if a hearing is determined to be warranted by the Board, the Commerce Department's Assistant Secretary for Enforcement and Compliance or the Executive Secretary), it shall be held before the Executive Secretary (or a member of the Board staff designated by the Executive Secretary) within 30 days following the request for a hearing (or the determination by the Board, the Commerce Department's Assistant Secretary for Enforcement and Compliance or the Executive Secretary). Parties may be represented by counsel at the hearing, and any evidence and testimony of witnesses in the proceeding shall be presented. A transcript of the hearing shall be produced and a copy shall be made available to the parties;

(3) The Executive Secretary shall make a recommendation on the record of the proceeding not earlier than 15 days after the later of:

(i) The deadline for the party(ies)'s response under paragraph (h)(1) of this section; or

(ii) The date of a hearing held under paragraph (h)(2) of this section; and

(4) The Board or the Commerce Department's Assistant Secretary for Enforcement and Compliance shall determine whether to instruct CBP to suspend the activated status of the zone operation(s) in question. If the determination is affirmative, the Executive Secretary shall convey the instruction to CBP, with due consideration to allow for the transfer of any affected merchandise from the applicable zone site(s).

(i) *Enforcement of assessment*. Upon any failure to pay an assessed fine, the Board may request the U.S. Department of Justice to recover the amount assessed in any appropriate district court of the United States or may commence any other lawful action.

(j) *Adjustment for inflation*. The maximum dollar value of a fine for a violation of the FTZ Act or the Board's regulations is subject to adjustment for inflation pursuant to the Federal Civil Penalties Inflation Adjustment Act of 1990 (Pub. L. 101–410), as amended by the Debt Collection Improvement Act of 1996 (Pub. L. 104–134).

§ 400.63 Appeals to the Board of decisions of the Assistant Secretary for Enforcement and Compliance and the Executive Secretary.

(a) *In general*. Decisions of the Commerce Department's Assistant Secretary for Enforcement and Compliance and the Executive Secretary made pursuant to this part may be appealed to the Board by adversely affected parties showing good cause.

(b) *Procedures*. Parties appealing a decision under paragraph (a) of this section shall submit a request for review to the Board in writing, stating the basis for the request, and attaching a copy of the decision in question, as well as supporting information and documentation. After a review, the Board shall notify the appealing party of its decision in writing.

PARTS 401–499 [RESERVED]

CHAPTER VII—BUREAU OF INDUSTRY AND SECURITY, DEPARTMENT OF COMMERCE

EDITORIAL NOTE: Nomenclature changes to chapter VII appear at 67 FR 20632, Apr. 26, 2002 and 69 FR 60546 and 60547, Oct. 12, 2004.

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SUBCHAPTER A—NATIONAL SECURITY INDUSTRIAL BASE REGULATIONS

PART 700—DEFENSE PRIORITIES AND ALLOCATIONS SYSTEM

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APPENDIX I TO PART 700—FORM BIS–999–REQUEST FOR SPECIAL PRIORITIES ASSISTANCE

AUTHORITY: 50 U.S.C. 4501 *et seq.;* 42 U.S.C. 5195, *et seq.;* 50 U.S.C. 3816; 10 U.S.C. 2538; 50 U.S.C. 82; E.O. 12656, 53 FR 226, 3 CFR, 1988 Comp., p. 585; E.O. 12742, 56 FR 1079, 3 CFR, 1991 Comp., p. 309; E.O. 13603, 77 FR 16651, 3 CFR, 2012 Comp., p. 225.

SOURCE: 49 FR 30414, July 30, 1984, unless otherwise noted. Redesignated at 54 FR 601, Jan. 9, 1989.

Subpart A—Purpose

§ 700.1 Purpose of this part.

This part implements the Defense Priorities and Allocations System (DPAS) that is administered by the Department of Commerce, Bureau of Industry and Security. The DPAS implements the priorities and allocations authority of the Defense Production Act, including use of that authority to support emergency preparedness activities pursuant to Title VI of the Robert T. Stafford Disaster Relief and Emergency Assistance Act (42 U.S.C. 5195 *et seq.*), and the priorities authority of the Selective Service Act and related statutes, all with respect to industrial resources. The DPAS establishes procedures for the placement, acceptance, and performance of priority rated contracts and orders and for the allocation of materials, services, and facilities. The guidance and procedures in this part are generally consistent with the guidance and procedures provided in other regulations issued under Executive Order 13603 authority.

[79 FR 47563, Aug. 14, 2014]

Subpart B—Overview

§ 700.2 Introduction.

(a) Certain national defense and energy programs (including military, emergency preparedness, homeland security, and critical infrastructure protection and restoration activities) are approved for priorities and allocations support. A complete list of currently approved programs is provided at schedule I to this part.

(b) The Department of Commerce administers the DPAS and may exercise priorities and allocations authority to ensure the timely delivery of industrial items to meet approved program requirements.

(c) The Department of Commerce has delegated authority to place priority ratings on contracts or orders necessary or appropriate to promote the national defense to certain government agencies that issue such contracts or orders. Such delegations include authority to authorize recipients of rated orders to place ratings on contracts or orders to contractors, subcontractors, and suppliers. Schedule I to this part includes a list of agencies to which the Department of Commerce has delegated authority.

[79 FR 47563, Aug. 14, 2014]

§ 700.3 Priority ratings and rated orders.

(a) Rated orders are identified by a priority rating and a program identification symbol. Rated orders take precedence over all unrated orders as necessary to meet required delivery dates. Among rated orders, DX rated orders take precedence over DO rated orders. Program identification symbols indicate which approved program is attributed to the rated order.

(b) Persons receiving rated orders must give them preferential treatment as required by this part.

(c) All rated orders must be scheduled to the extent possible to ensure delivery by the required delivery date.

(d) Persons who receive rated orders must in turn place rated orders with their suppliers for the items they need to fill the orders. This provision ensures that suppliers will give priority treatment to rated orders from contractor to subcontractor to suppliers throughout the procurement chain.

(e) Persons may place a priority rating on orders only when they are in receipt of a rated order, have been explicitly authorized to do so by the Department of Commerce or a Delegate Agency, or are otherwise permitted to do so by this part.

[49 FR 30414, July 30, 1984. Redesignated at 54 FR 601, Jan. 9, 1989, as amended at 63 FR 31921, June 11, 1998; 79 FR 47563, Aug. 14, 2014]

§§ 700.4–700.7 [Reserved]

Subpart C—Definitions

§ 700.8 Definitions.

The definitions in this section apply throughout this part:

Allocation. The control of the distribution of materials, services or facilities for a purpose deemed necessary or appropriate to promote the national defense.

Allocation order. An official action to control the distribution of materials,

services, or facilities for a purpose deemed necessary or appropriate to promote the national defense.

Allotment. An official action that specifies the maximum quantity of a material, service, or facility authorized for a specific use to promote the national defense.

Approved program. A program determined as necessary or appropriate for priorities and allocations support to promote the national defense by the Secretary of Defense, the Secretary of Energy, or the Secretary of Homeland Security, under the authority of the Defense Production Act and Executive Order 13603, or the Selective Service Act and Executive Order 12742.

Construction. The erection, addition, extension, or alteration of any building, structure, or project, using materials or products which are to be an integral and permanent part of the building, structure, or project. Construction does not include maintenance and repair.

Critical infrastructure. Any systems and assets, whether physical or cyber-based, so vital to the United States that the degradation or destruction of such systems and assets would have a debilitating impact on national security, including, but not limited to, national economic security and national public health or safety.

Defense Production Act. The Defense Production Act of 1950, as amended (50 U.S.C. App. 2061, *et seq.*).

Delegate Agency. A government agency authorized by delegation from the Department of Commerce to place priority ratings on contracts or orders needed to support approved programs.

Directive. An official action which requires a person to take or refrain from taking certain actions in accordance with its provisions.

Emergency preparedness. All activities and measures designed or undertaken to prepare for or minimize the effects of a hazard upon the civilian population, to deal with the immediate emergency conditions which would be created by the hazard, and to effectuate emergency repairs to, or the emergency restoration of, vital utilities and facilities destroyed or damaged by the hazard. Emergency preparedness includes the following:

(1) Measures to be undertaken in preparation for anticipated hazards (including the establishment of appropriate organizations, operational plans, and supporting agreements, the recruitment and training of personnel, the conduct of research, the procurement and stockpiling of necessary materials and supplies, the provision of suitable warning systems, the construction or preparation of shelters, shelter areas, and control centers, and, when appropriate, the nonmilitary evacuation of the civilian population);

(2) Measures to be undertaken during a hazard (including the enforcement of passive defense regulations prescribed by duly established military or civil authorities, the evacuation of personnel to shelter areas, the control of traffic and panic, and the control and use of lighting and civil communications); and

(3) Measures to be undertaken following a hazard (including activities for firefighting, rescue, emergency medical, health and sanitation services, monitoring for specific dangers of special weapons, unexploded bomb reconnaissance, essential debris clearance, emergency welfare measures, and immediately essential emergency repair or restoration of damaged vital facilities).

Hazard. An emergency or disaster resulting from:

(1) A natural disaster, or

(2) An accidental or man-caused event.

Homeland security. Includes efforts:

(1) To prevent terrorist attacks within the United States;

(2) To reduce the vulnerability of the United States to terrorism;

(3) To minimize damage from a terrorist attack in the United States; and

(4) To recover from a terrorist attack in the United States.

Industrial resources. All materials, services, and facilities, including construction materials, the authority for which has not been delegated to other agencies under Executive Order 13603. This term also includes the term ''item'' as defined and used in this part.

Item. Any raw, in process, or manufactured material, article, commodity, supply, equipment, component, accessory, part, assembly, or product of any

kind, technical information, process, or service.

Maintenance and repair and/or operating supplies (MRO). (1) *Maintenance* is the upkeep necessary to continue any plant, facility, or equipment in working condition.

(2) *Repair* is the restoration of any plant, facility, or equipment to working condition when it has been rendered unsafe or unfit for service by wear and tear, damage, or failure of parts.

(3) *Operating supplies* are any items carried as operating supplies according to a person's established accounting practice. Operating supplies may include hand tools and expendable tools, jigs, dies, fixtures used on production equipment, lubricants, cleaners, chemicals and other expendable items.

(4) MRO does not include items produced or obtained for sale to other persons or for installation upon or attachment to the property of another person, or items required for the production of such items; items needed for the replacement of any plant, facility, or equipment; or items for the improvement of any plant, facility, or equipment by replacing items which are still in working condition with items of a new or different kind, quality, or design.

National defense. Programs for military and energy production or construction, military or critical infrastructure assistance to any foreign nation, homeland security, stockpiling, space, and any directly related activity. Such term includes emergency preparedness activities conducted pursuant to Title VI of The Robert T. Stafford Disaster Relief and Emergency Assistance Act (42 U.S.C. 5195 *et seq.*) and critical infrastructure protection and restoration.

Official action. An action taken by the Department of Commerce under the authority of the Defense Production Act, the Selective Service Act and related statutes, and this part. Such actions include the issuance of rating authorizations, directives, letters of understanding, demands for information, inspection authorizations, administrative subpoenas and allocation orders.

Person. Any individual, corporation, partnership, association, or any other organized group of persons, or legal successor or representative thereof; or any authorized State or local government or agency thereof; and for purposes of administration of this part, includes the United States Government and any authorized foreign government or international organization or agency thereof, delegated authority as provided in this part.

Priorities authority. The authority of the Department of Commerce, pursuant to Section 101 of the Defense Production Act, to require priority performance of contracts and orders for industrial resource items for use in approved programs.

Priority rating. An identifying code assigned by a Delegate Agency or authorized person placed on all rated orders and consisting of the rating symbol and the program identification symbol.

Production equipment. Any item of capital equipment used in producing materials or furnishing services that has a unit acquisition cost of $2,500 or more, an anticipated service life in excess of one year, and the potential for maintaining its integrity as a capital item.

Program identification symbols. Abbreviations used to indicate which approved program is supported by a rated order.

Rated order. A prime contract, a subcontract, or a purchase order in support of an approved program issued in accordance with the provisions of this part.

Selective Service Act. Section 18 of the Selective Service Act of 1948 (50 U.S.C. app. 468).

Set-aside. An official action that requires a person to reserve materials, services, or facilities capacity in anticipation of the receipt of rated orders.

Stafford Act. Title VI (Emergency Preparedness) of the Robert T. Stafford Disaster Relief and Emergency Assistance Act, as amended (42 U.S.C. 5195, *et seq.*).

Working day. Any day that the recipient of an order is open for business.

[79 FR 47564, Aug. 14, 2014]

Subpart D—Industrial Priorities

§ 700.10 Authority.

(a) *Delegations to the Department of Commerce.* The priorities and allocations authorities of the President under Title I of the Defense Production Act with respect to industrial resources have been delegated to the Secretary of Commerce under Executive Order 13603 of March 16, 2012 (3 CFR, 2012 Comp., p. 225). The priorities authorities of the President under the Selective Service Act and related statutes with respect to industrial resources have also been delegated to the Secretary of Commerce under Executive Order 12742 of January 8, 1991 (3 CFR, 1991 Comp. 309).

(b) *Delegations by the Department of Commerce.* The Department of Commerce has authorized the Delegate Agencies to assign priority ratings to orders for industrial resources needed for use in approved programs.

(c) *Jurisdiction limitations.* (1) The priorities and allocations authority for certain items have been delegated under Executive Order 13603, other executive orders, or Interagency Memoranda of Understanding between other agencies. Unless otherwise agreed to by the concerned agencies, the provisions of this part are not applicable to those other items which include:

(i) Food resources, food resource facilities, livestock resources, veterinary resources, plant health resources, and the domestic distribution of farm equipment and commercial fertilizer (delegated to the Department of Agriculture);

(ii) All forms of energy (delegated to the Department of Energy);

(iii) Health resources (delegated to the Department of Health and Human Services);

(iv) All forms of civil transportation (delegated to the Department of Transportation); and

(v) Water resources (delegated to the Department of Defense/U.S. Army Corps of Engineers).

(2) The priorities and allocations authority set forth in this part may not be applied to communications services subject to Executive Order 13618 of July 6, 2012—Assignment of National Security and Emergency Preparedness Communications Functions (3 CFR, 2012 Comp., p. 273).

[79 FR 47565, Aug. 14, 2014]

§ 700.11 Priority ratings.

(a) *Levels of priority.* (1) There are two levels of priority established by this regulation, identified by the rating symbols ''DO'' and ''DX''.

(2) All DO rated orders have equal priority with each other and take preference over unrated orders. All DX rated orders have equal priority with each other and take preference over DO rated orders and unrated orders. (For resolution of conflicts among rated orders of equal priority, see § 700.14(c).)

(3) In addition, a Directive issued by Commerce takes preference over any DX rated order, DO rated order, or unrated order, as stipulated in the Directive. (For a full discussion of Directives, see § 700.62.)

(b) *Program identification symbols.* Program identification symbols indicate which approved program is being supported by a rated order. The list of approved programs and their identification symbols is found in schedule I to this part. For example, A1 identifies defense aircraft programs and A7 signifies defense electronic programs. Program identification symbols, in themselves, do not connote any priority.

(c) *Priority ratings.* A priority rating consists of the rating symbol—DO and DX—and the program identification symbol, such as A1, C2, or N1. Thus, a contract for the production of an aircraft will contain a DO-A1 or DX-A1 priority rating. A contract for a radar set will contain a DO-A7 or DX-A7 priority rating.

[49 FR 30414, July 30, 1984. Redesignated at 54 FR 601, Jan. 9, 1989, as amended at 63 FR 31922, June 11, 1998; 71 FR 39528, July 13, 2006; 79 FR 47565, Aug. 14, 2014]

§ 700.12 Elements of a rated order.

(a) *Elements required for all rated orders.* (1) The appropriate priority rating and program identification symbol (e.g., DO–A1, DX–A4, DO–N1).

(2) A required delivery date or dates. The words ''immediately'' or ''as soon

as possible'' do not constitute a delivery date. When a ''requirements contract,'' ''basic ordering agreement,'' ''prime vendor contract,'' or similar procurement document bearing a priority rating contains no specific delivery date or dates, but provides for the furnishing of items from time-to-time or within a stated period against specific purchase orders, such as ''calls,'' ''requisitions,'' and ''delivery orders,'' the purchase orders supporting such contracts or agreements must specify a required delivery date or dates and are to be considered as rated as of the date of their receipt by the supplier and not as of the date of the original procurement document.

(3) The written signature on a manually placed order, or the digital signature or name on an electronically placed order, of an individual authorized to sign rated orders for the person placing the order. The signature, manual or digital, certifies that the rated order is authorized under this part and that the requirements of this part are being followed.

(4) A statement that reads in substance: ''This is a rated order certified for national defense use and you are required to follow all the provisions of the Defense Priorities and Allocations System regulations (15 CFR part 700).''

(b) *Additional element required for certain emergency preparedness rated orders.* If a rated order is placed for the purpose of emergency preparedness requirements and expedited action is necessary or appropriate to meet these requirements, the following statement must be included in the order: ''This rated order is placed for the purpose of emergency preparedness. It must be accepted or rejected within [Insert a time limit no less than the minimum applicable time limit specified in § 700.13(d)(2)].''

[79 FR 47565, Aug. 14, 2014]

§ 700.13 Acceptance and rejection of rated orders.

(a) *Mandatory acceptance.* (1) Except as otherwise specified in this section, a person shall accept every rated order received and must fill such orders regardless of any other rated or unrated orders that have been accepted.

(2) A person shall not discriminate against rated orders in any manner such as by charging higher prices or by imposing different terms and conditions than for comparable unrated orders.

(b) *Mandatory rejection.* Unless otherwise directed by Commerce:

(1) A person shall not accept a rated order for delivery on a specific date if unable to fill the order by that date. However, the person must inform the customer of the earliest date on which delivery can be made and offer to accept the order on the basis of that date. Scheduling conflicts with previously accepted lower rated or unrated orders are not sufficient reason for rejection under this section.

(2) A person shall not accept a DO rated order for delivery on a date which would interfere with delivery of any previously accepted DO or DX rated orders. However, the person must offer to accept the order based on the earliest delivery date otherwise possible.

(3) A person shall not accept a DX rated order for delivery on a date which would interfere with delivery of any previously accepted DX rated orders, but must offer to accept the order based on the earliest delivery date otherwise possible.

(4) If a person is unable to fill all the rated orders of equal priority status received on the same day, the person must accept, based upon the earliest delivery dates, only those orders which can be filled, and reject the other orders. For example, a person must accept order A requiring delivery on December 15 before accepting order B requiring delivery on December 31. However, the person must offer to accept the rejected orders based on the earliest delivery dates otherwise possible.

(c) *Optional rejection.* Unless otherwise directed by Commerce, rated orders may be rejected in any of the following cases as long as a supplier does not discriminate among customers:

(1) If the person placing the order is unwilling or unable to meet regularly established terms of sale or payment;

(2) If the order is for an item not supplied or for a service not performed;

(3) If the order is for an item produced, acquired, or provided only for

the supplier's own use for which no orders have been filled for two years prior to the date of receipt of the rated order. If, however, a supplier has sold some of these items, the supplier is obligated to accept rated orders up to that quantity or portion of production, whichever is greater, sold within the past two years;

(4) If the person placing the rated order, other than the U.S. Government, makes the item or performs the service being ordered;

(5) If acceptance of a rated order or performance against a rated order would violate any other regulation, official action, or order of the Department of Commerce issued under the authority of the Defense Production Act or the Selective Service Act and related statutes [See § 700.75].

(d) *Customer notification requirements.* (1) Except as provided in paragraph (d)(2) of this section, a person must accept or reject a rated order in writing (hard copy), or in electronic format, within fifteen (15) working days after receipt of a DO rated order and within ten (10) working days after receipt of a DX rated order. If the order is rejected, the person must give reasons in writing or electronically for the rejection.

(2) If a rated order is placed for the purpose of emergency preparedness requirements and expedited action is necessary or appropriate to meet these requirements and the order includes the statement set forth in § 700.12(b), a person must accept or reject the rated order and transmit the acceptance or rejection in writing or in an electronic format within the time specified in the rated order. The minimum times for acceptance or rejection that such orders may specify are six (6) hours after receipt of the order if the order is issued by an authorized person in response to a hazard that has occurred, or twelve (12) hours after receipt if the order is issued by an authorized person to prepare for an imminent hazard.

(3) If a person has accepted a rated order and subsequently finds that shipment or performance will be delayed, the person must notify the customer immediately, give the reasons for the delay, and advise of a new shipment or performance date. If notification is given verbally, written (hard copy) or electronic confirmation must be provided within one working day of the verbal notice.

[49 FR 30414, July 30, 1984. Redesignated at 54 FR 601, Jan. 9, 1989, as amended at 63 FR 31922, June 11, 1998; 70 FR 10864, Mar. 7, 2005; 79 FR 47565, Aug. 14, 2014]

§ 700.14 Preferential scheduling.

(a) A person must schedule operations, including the acquisition of all needed production items, in a timely manner to satisfy the delivery requirements of each rated order. Modifying production or delivery schedules is necessary only when required delivery dates for rated orders cannot otherwise be met.

(b) DO rated orders must be given production preference over unrated orders, if necessary to meet required delivery dates, even if this requires the diversion of items being processed or ready for delivery against unrated orders. Similarly, DX rated orders must be given preference over DO rated orders and unrated orders.

Examples: If a person receives a DO rated order with a delivery date of June 3 and if meeting that date would mean delaying production or delivery of an item for an unrated order, the unrated order must be delayed. If a DX rated order is received calling for delivery on July 15 and a person has a DO rated order requiring delivery on June 2 and operations can be scheduled to meet both deliveries, there is no need to alter production schedules to give any additional preference to the DX rated order. However, if business operations cannot be altered to meet both the June 3 and July 15 delivery dates, then the DX rated order must be given priority over the DO rated order.

(c) *Conflicting rated orders.* (1) If a person finds that delivery or performance against any accepted rated orders conflicts with the delivery or performance against other accepted rated orders of equal priority status, the person shall give preference to the conflicting orders in the sequence in which they are to be delivered or performed (not to the receipt dates). If the conflicting rated orders are scheduled to be delivered or performed on the same day, the person shall give preference to those orders which have the earliest receipt dates.

(2) If a person is unable to resolve rated order delivery or performance conflicts under this section, the person

should promptly seek special priorities assistance as provided in subpart H of this part. If the person's customer objects to the rescheduling of delivery or performance of a rated order, the customer should promptly seek special priorities assistance as provided in subpart H of this part. For any rated order against which delivery or performance will be delayed, the person must notify the customer as provided in § 700.13(d)(3).

(d) If a person is unable to purchase needed production items in time to fill a rated order by its required delivery date, the person must fill the rated order by using inventoried production items. A person who uses inventoried items to fill a rated order may replace those items with the use of a rated order as provided in § 700.17(b).

[49 FR 30414, July 30, 1984. Redesignated at 54 FR 601, Jan. 9, 1989, as amended at 63 FR 31922, June 11, 1998; 79 FR 47566, Aug. 14, 2014]

§ 700.15 Extension of priority ratings.

(a) A person must use rated orders with suppliers to obtain items needed to fill a rated order. The person must use the priority rating indicated on the customer's rated order, except as otherwise provided in this part or as directed by the Department of Commerce.

Example: If a person is in receipt of a DO–A3 rated order for a navigation system and needs to purchase semiconductors for its manufacture, that person must use a DO–A3 rated order to obtain the needed semiconductors.

(b) The priority rating must be included on each successive order placed to obtain items needed to fill a customer's rated order. Therefore, the inclusion of the rating will continue from contractor to subcontractor to supplier throughout the entire supply chain.

(c) A person must use rated orders with suppliers to obtain items needed to fill an emergency preparedness rated order. That person must require acceptance or rejection, and transmission of that acceptance or rejection by the supplier within the time limit stated in the rated order that is being filled.

[49 FR 30414, July 30, 1984. Redesignated at 54 FR 601, Jan. 9, 1989, as amended at 79 FR 47566, Aug. 14, 2014]

§ 700.16 Changes or cancellations of priority ratings and rated orders.

(a) The priority rating on a rated order may be changed or cancelled by:

(1) An official action of the Department of Commerce; or

(2) Written notification from the person who placed the rated order (including a Delegate Agency).

(b) If an unrated order is amended so as to make it a rated order, or a DO, rating is changed to a DX rating, the supplier must give the appropriate preferential treatment to the order as of the date the change is received by the supplier.

(c) An amendment to a rated order that significantly alters a supplier's original production or delivery schedule shall constitute a new rated order as of the date of its receipt. The supplier must accept or reject the amended order according to the provisions of § 700.13.

(d) The following amendments do not constitute a new rated order: a change in shipping destination; a reduction in the total amount of the order; an increase in the total amount of the order which has negligible impact upon deliveries; a minor variation in size or design (prior to the start of production); or a change which is agreed upon between the supplier and the customer.

(e) A person must cancel any rated orders that the person (or a predecessor in interest) has placed with suppliers or cancel the priority ratings on those orders if the person no longer needs the items in those orders to fill a rated order.

(f) A person adding a rating to an unrated order, or changing or cancelling a priority rating must promptly notify all suppliers to whom the order was sent of the addition, change or cancellation.

[49 FR 30414, July 30, 1984. Redesignated at 54 FR 601, Jan. 9, 1989, as amended at 79 FR 47566, Aug. 14, 2014]

§ 700.17 Use of rated orders.

(a) A person must use rated orders to obtain:

(1) Items which will be physically incorporated into other items to fill rated orders, including that portion of

such items normally consumed, or converted into scrap or by-products, in the course of processing;

(2) Containers or other packaging materials required to make delivery of the finished items against rated orders;

(3) Services, other than contracts of employment, needed to fill rated orders; and

(4) MRO needed to produce the finished items to fill rated orders. However, for MRO, the priority rating used must contain the program identification symbol H7 along with the rating symbol contained on the customer's rated order. For example, a person in receipt of a DO-A3 rated order, who needs MRO, would place a DO-H7 rated order with the person's supplier.

(b) A person may use a rated order to replace inventoried items (including finished items) if such items were used to fill rated orders, as follows:

(1) The order must be placed within 90 days of the date of use of the inventory.

(2) A DO rating symbol and the program identification symbol indicated on the customer's rated order must be used on the order. A DX rating symbol may not be used even if the inventory was used to fill a DX rated order.

(3) If the priority ratings on rated orders from one customer or several customers contain different program identification symbols, the rated orders may be combined. In this case, the program identification symbol H1 must be used (i.e., DO-H1).

(c) A person may combine DX and DO rated orders from one customer or several customers if the items covered by each level of priority are identified separately and clearly. If different program identification symbols are indicated on those rated orders of equal priority, the person must use the program identification symbol H1 (i.e., DO-H1 or DX-H1).

(d) *Combining rated and unrated orders.* (1) A person may combine rated and unrated order quantities on one purchase order provided that:

(i) The rated quantities are separately and clearly identified; and

(ii) The elements of a rated order, as required by § 700.12, are included on the order with the statement required in § 700.12(a)(4) modified to read in substance: ''This purchase order contains rated order quantities certified for national defense use, and you are required to follow all the provisions of the Defense Priorities and Allocations System regulations (15 CFR part 700) as it pertains to the rated quantities.''

(2) A supplier must accept or reject the rated portion of the purchase order as provided in § 700.13 and give preferential treatment only to the rated quantities as required by this part. This part may not be used to give preferential treatment to the unrated portion of the order.

(3) Any supplier who believes that rated and unrated orders are being combined in a manner contrary to the intent of this regulation or in a fashion that causes undue or exceptional hardship may submit a request for adjustment or exception under § 700.80.

(e) A person may place a rated order for the minimum commercially procurable quantity even if the quantity needed to fill a rated order is less than that minimum. However, a person must combine rated orders as provided in paragraph (c) of this section, if possible, to obtain minimum procurable quantities.

(f) A person is not required to place a priority rating on an order for less than $75,000, or one half of the Simplified Acquisition Threshold (as established in the Federal Acquisition Regulation (FAR)) (see FAR section 2.101), whichever amount is greater, provided that delivery can be obtained in a timely fashion without the use of the priority rating.

[49 FR 30414, July 30, 1984. Redesignated at 54 FR 601, Jan. 9, 1989, as amended at 63 FR 31923, June 11, 1998; 79 FR 47566, Aug. 14, 2014]

§ 700.18 Limitations on placing rated orders.

(a) *General limitations.* (1) A person may not place a rated order pursuant to this part unless the person is in receipt of a rated order, has been explicitly authorized to do so by the Department of Commerce or a Delegate Agency or is otherwise permitted to do so by this part.

(2) Rated orders may not be used to obtain:

(i) Delivery on a date earlier than needed;

(ii) A greater quantity of the item than needed, except to obtain a minimum procurable quantity;

(iii) Items in advance of the receipt of a rated order, except as specifically authorized by the Department of Commerce (see § 700.41(c) for information on obtaining authorization for a priority rating in advance of a rated order); or

(iv) Any of the following items unless specific priority rating authority has been obtained from a Delegate Agency or the Department of Commerce:

(A) Items for plant improvement, expansion or construction, unless they will be physically incorporated into a construction project covered by a rated order; or

(B) Production or construction equipment or items to be used for the manufacture of production equipment (for information on requesting priority rating authority, see § 700.41).

(v) Any items related to the development of chemical or biological warfare capabilities or the production of chemical or biological weapons, unless such development or production has been authorized by the President or the Secretary of Defense.

(3) Separate rated orders may not be placed solely for obtaining minimum procurable quantities on each order if the minimum procurable quantity would be sufficient to cover more than one rated order.

(b) *Specific item limitations.* Notwithstanding any authorization or requirement to place a rated order stated elsewhere in this part, no person may place a rated order to obtain the following items unless such order is authorized by an official action of the Department of Commerce.

(1) Copper raw materials.

(2) Crushed stone.

(3) Gravel.

(4) Sand.

(5) Scrap.

(6) Slag.

(7) Steam heat, central.

(8) Waste paper.

[79 FR 47566, Aug. 14, 2014]

Subpart E—Industrial Priorities for Energy Programs

§ 700.20 Use of priority ratings.

(a) Section 101(c) of the Defense Production Act authorizes the use of priority ratings for projects which maximize domestic energy supplies.

(b) Projects which maximize domestic energy supplies include those which maintain or further domestic energy exploration, production, refining, and transportation; maintain or further the conservation of energy; or are involved in the construction or maintenance of energy facilities.

§ 700.21 Application for priority rating authority.

(a) For projects believed to maximize domestic energy supplies, a person may request priority rating authority for scarce, critical, and essential supplies of materials, equipment, and services (related to the production of materials or equipment, or the installation, repair, or maintenance of equipment) by submitting a request to the Department of Energy. Further information may be obtained from the Department of Energy, Office of Electricity Delivery and Energy Reliability, 1000 Independence Avenue SW., Washington, DC 20585.

(b) If the Department of Energy notifies the Department of Commerce that the project maximizes domestic energy supplies and that the materials, equipment, or services are critical and essential, the Department of Commerce will determine whether the items in question are scarce, and, if they are scarce, whether there is a need to use the priorities authority.

(1) Scarcity implies an unusual difficulty in obtaining the materials, equipment, or services in a time frame consistent with the timely completion of the energy project. In determining scarcity, the Department of Commerce may consider factors such as the following:

(i) Value and volume of material or equipment shipments;

(ii) Consumption of material and equipment;

(iii) Volume and market trends of imports and exports;

(iv) Domestic and foreign sources of supply;

(v) Normal levels of inventories;

(vi) Rates of capacity utilization;

(vii) Volume of new orders; and

(viii) Lead times for new orders.

(2) In finding whether there is a need to use the priorities authority, the Department of Commerce may consider alternative supply solutions and other measures.

(c) After the Department of Commerce has conducted its analysis, it will advise the Department of Energy whether the two findings have been satisfied. If the findings are satisfied, the Department of Commerce will authorize the Department of Energy to grant the use of a priority rating to the applicant.

(d) Schedule I to this part includes a list of approved programs to support the maximization of domestic energy supplies. A Department of Energy regulation setting forth the procedures and criteria used by the Department of Energy in making its determination and findings is published in 10 CFR part 216.

[79 FR 47567, Aug. 14, 2014]

Subpart F—Allocation Actions

SOURCE: 63 FR 31923, June 11, 1998, unless otherwise noted.

§ 700.30 Policy.

(a) Allocation orders will:

(1) Be used only when there is insufficient supply of a material, service, or facility to satisfy national defense requirements through the use of the priorities authority or when the use of the priorities authority would cause a severe and prolonged disruption in the supply of materials, services, or facilities available to support normal U.S. economic activities; and

(2) Not be used to ration materials or services at the retail level.

(b) Allocation orders, when used, will be distributed equitably among the suppliers of the materials, services, or facilities being allocated and not require any person to relinquish a disproportionate share of the civilian market.

[79 FR 47567, Aug. 14, 2014]

§ 700.31 General procedures.

Before the Department of Commerce uses its allocations authority to address a supply problem within its resource jurisdiction, it will develop a plan that includes:

(a) A copy of the written determination made in accordance with section 202 of Executive Order 13603, that the program or programs that would be supported by the allocation action are necessary or appropriate to promote the national defense;

(b) A detailed description of the situation to include any unusual events or circumstances that have created the requirement for an allocation action;

(c) A statement of the specific objective(s) of the allocation action;

(d) A list of the materials, services, or facilities to be allocated;

(e) A list or description of the sources of the materials, services, or facilities that will be subject to the allocation action;

(f) A detailed description of the provisions that will be included in the allocations orders, including the type(s) of allocations orders, the percentages or quantity of capacity or output to be allocated for each purpose, the relationship with previously or subsequently received priority rated and unrated contracts and orders, and the duration of the allocation action (e.g., anticipated start and end dates);

(g) An evaluation of the impact of the proposed allocation action on the civilian market; and

(h) Proposed actions, if any, to mitigate disruptions to civilian market operations.

[79 FR 47567, Aug. 14, 2014]

§ 700.32 Controlling the general distribution of a material in the civilian market.

No allocation action by the Department of Commerce may be used to control the general distribution of a material in the civilian market unless the conditions of paragraphs (a), (b), and (c) of this section are met.

(a) The Secretary has made a written finding that:

(1) Such material is a scarce and critical material essential to the national defense, and

(2) The requirements of the national defense for such material cannot otherwise be met without creating a significant dislocation of the normal distribution of such material in the civilian market to such a degree as to create appreciable hardship.

(b) The Secretary has submitted the finding for the President's approval through the Assistant to the President and National Security Advisor and the Assistant to the President for Homeland Security and Counterterrorism.

(c) The President has approved the finding.

(d) In this section, the term, ''Secretary'' means the Secretary of Commerce or his or her designee.

[79 FR 47567, Aug. 14, 2014]

§ 700.33 Types of allocations orders.

There are three types of allocations orders available for communicating allocation actions.

(a) *Set-aside*. A set-aside is an official action that requires a person to reserve materials, services, or facilities capacity in anticipation of the receipt of rated orders.

(b) *Directive*. A directive is an official action that requires a person to take or refrain from taking certain actions in accordance with its provisions. For example, a directive can require a person to: stop or reduce production of an item; prohibit the use of selected materials, services, or facilities; or divert the use of materials, services, or facilities from one purpose to another.

(c) *Allotment*. An allotment is an official action that specifies the maximum quantity of a material, service, or facility authorized for a specific use to promote the national defense.

[79 FR 47567, Aug. 14, 2014]

§ 700.34 Elements of an allocation order.

Allocation orders may be issued directly to the affected persons or by constructive notice to the parties through publication in the FEDERAL REGISTER. This section describes the elements that each order must include.

(a) *Elements to be included in all allocation orders*. (1) A detailed description of the required allocation action(s), including its relationship to previously or subsequently received DX rated orders, DO rated orders and unrated orders.

(2) Specific start and end calendar dates for each required allocation action.

(b) *Elements to be included in orders issued directly to affected persons*. (1) A statement that reads in substance: ''This is an allocation order certified for national defense use. [Insert the name of the person receiving the order] is required to comply with this order, in accordance with the provisions of the Defense Priorities and Allocations System regulations (15 CFR part 700).''

(2) The written signature on a manually placed order, or the digital signature or name on an electronically placed order, of an authorized official or employee of the Department of Commerce.

(c) *Elements to be included in an allocation order that gives constructive notice through publication in the* FEDERAL REGISTER. (1) A statement that reads in substance: ''This is an allocation order certified for national defense use. [Insert the name(s) of the person(s) to whom the order applies or a description of the class of persons to whom the order applies] is (are) required to comply with this order, in accordance with the provisions of the Defense Priorities and Allocations System regulations (15 CFR part 700).''

(2) The order must be signed by an authorized official or employee of the Department of Commerce.

[79 FR 47567, Aug. 14, 2014]

§ 700.35 Mandatory acceptance of an allocation order.

(a) Except as otherwise specified in this section, a person shall accept and comply with every allocation order received.

(b) A person shall not discriminate against an allocation order in any manner such as by charging higher prices for materials, services, or facilities covered by the order or by imposing terms and conditions for contracts and orders involving allocated materials, services, or facilities that differ from the person's terms and conditions for contracts and orders for the materials, services, or facilities prior to receiving the allocation order.

(c) If a person is unable to comply fully with the required action(s) specified in an allocation order, the person must notify the Office of Strategic Industries and Economic Security immediately, explain the extent to which compliance is possible, and give the reasons why full compliance is not possible. If notification is given verbally, written or electronic confirmation must be provided within one working day. Such notification does not release the person from complying with the order to the fullest extent possible, until the person is notified by the Department of Commerce that the order has been changed or cancelled.

[79 FR 47567, Aug. 14, 2014]

§ 700.36 Changes or cancellations of allocation orders.

An allocation order may be changed or cancelled by an official action from the Department of Commerce. Notice of such changes or cancellations may be provided directly to persons to whom the order being cancelled or modified applies or constructive notice may be provided by publication in the FEDERAL REGISTER.

[79 FR 47567, Aug. 14, 2014]

Subpart G [Reserved]

Subpart H—Special Priorities Assistance

§ 700.50 General provisions.

(a) Once a priority rating has been authorized pursuant to this part, further action by the Department of Commerce generally is not needed. However, it is anticipated that from time-to-time problems will occur. In this event, a person should immediately contact the appropriate contract administration officer for guidance or assistance. If additional formal aid is needed, special priorities assistance should be sought from the Delegate Agency through the contract administration officer. If the Delegate Agency is unable to resolve the problem or to authorize the use of a priority rating and believes additional assistance is warranted, the Delegate Agency may forward the request to the Department of Commerce for action. Special priorities assistance is a service provided to alleviate problems that do arise.

(b) Special priorities assistance can be provided for any reason consistent with this part, such as assisting in obtaining timely deliveries of items needed to satisfy rated orders or authorizing the use of priority ratings on orders to obtain items not otherwise ratable under this part. If the Department of Commerce is unable to resolve the problem or to authorize the use of a priority rating and believes additional assistance is warranted, the Department of Commerce may forward the request to another agency, identified in § 700.10(c), as appropriate, for action.

(c) A request for special priorities assistance or priority rating authority must be submitted on Form BIS–999 (OMB control number 0694–0057) to the local contract administration representative. Form BIS–999 may be obtained from the Delegate Agency representative or from the Department of Commerce. A sample Form BIS–999 is attached at Appendix I.

[49 FR 30414, July 30, 1984; 49 FR 50171, Dec. 27, 1984. Redesignated at 54 FR 601, Jan. 9, 1989, as amended at 63 FR 31924, June 11, 1998; 79 FR 47568, Aug. 14, 2014]

§ 700.51 Requests for priority rating authority.

(a) If a rated order is likely to be delayed because a person is unable to obtain items not normally rated under this part, the person may request the authority to use a priority rating in ordering the needed items. Examples of items for which priority ratings can be authorized include:

(1) Production or construction equipment;

(2) Computers when not used as production items; and

(3) Expansion, rebuilding or replacing plant facilities.

(b) *Rating authority for production or construction equipment.* (1) A request for priority rating authority for production or construction equipment must be submitted to the appropriate Delegate Agency. The Delegate Agency may establish particular forms to be used for these requests (e.g., Department of Defense Form DD 691.)

(2) When the use of a priority rating is authorized for the procurement of

production or construction equipment, a rated order may be used either to purchase or to lease such equipment. However, in the latter case, the equipment may be leased only from a person engaged in the business of leasing such equipment or from a person willing to lease rather than sell.

(c) *Rating authority in advance of a rated prime contract.* (1) In certain cases and upon specific request, the Department of Commerce, in order to promote the national defense, may authorize a person to place a priority rating on an order to a supplier in advance of the issuance of a rated prime contract. In these instances, the person requesting advance rating authority must obtain sponsorship of the request from the appropriate Delegate Agency. The person shall also assume any business risk associated with the placing of rated orders if these orders have to be cancelled in the event the rated prime contract is not issued.

(2) The person must state the following in the request:

It is understood that the authorization of a priority rating in advance of our receiving a rated prime contract from a Delegate Agency and our use of that priority rating with our suppliers in no way commits the Delegate Agency, the Department of Commerce or any other government agency to enter into a contract or order or to expend funds. Further, we understand that the Federal Government shall not be liable for any cancellation charges, termination costs, or other damages that may accrue if a rated prime contract is not eventually placed and, as a result, we must subsequently cancel orders placed with the use of the priority rating authorized as a result of this request.

(3) In reviewing requests for rating authority in advance of a rated prime contract, the Department of Commerce will consider, among other things, the following criteria:

(i) The probability that the prime contract will be awarded;

(ii) The impact of the resulting rated orders on suppliers and on other authorized programs;

(iii) Whether the contractor is the sole source;

(iv) Whether the item being produced has a long lead time; and

(v) The time period for which the rating is being requested.

(4) Commerce may require periodic reports on the use of the rating authority granted under paragraph (c) of this section.

(5) If a rated prime contract is not issued, the person shall promptly notify all suppliers who have received rated orders pursuant to the advanced rating authority that the priority rating on those orders is cancelled.

[49 FR 30414, July 30, 1984. Redesignated at 54 FR 601, Jan. 9, 1989, as amended at 79 FR 47568, Aug. 14, 2014]

§ 700.52 Examples of assistance.

(a) While special priorities assistance may be provided for any reason in support of this regulation, it is usually provided in situations where:

(1) A person is experiencing difficulty in obtaining delivery against a rated order by the required delivery date; or

(2) A person cannot locate a supplier for an item needed to fill a rated order.

(b) Other examples of special priorities assistance include:

(1) Ensuring that rated orders receive preferential treatment by suppliers;

(2) Resolving production or delivery conflicts between various rated orders;

(3) Assisting in placing rated orders with suppliers;

(4) Verifying the urgency of rated orders; and

(5) Determining the validity of rated orders.

§ 700.53 Criteria for assistance.

Requests for special priorities assistance should be timely, *i.e.*, the request has been submitted promptly and enough time exists for the Delegate Agency or the Department of Commerce to effect a meaningful resolution to the problem, and must establish that:

(a) There is an urgent need for the item; and

(b) The applicant has made a reasonable effort to resolve the problem.

[49 FR 30414, July 30, 1984. Redesignated at 54 FR 601, Jan. 9, 1989, as amended at 79 FR 47568, Aug. 14, 2014]

§ 700.54 Instances where assistance will not be provided.

Special priorities assistance is provided at the discretion of the Delegate

Agencies and the Department of Commerce when it is determined that such assistance is warranted to meet the objectives of this regulation. Examples where assistance may not be provided include situations when a person is attempting to:

(a) Secure a price advantage;

(b) Obtain delivery prior to the time required to fill a rated order;

(c) Gain competitive advantage;

(d) Disrupt an industry apportionment program in a manner designed to provide a person with an unwarranted share of scarce items; or

(e) Overcome a supplier's regularly established terms of sale or conditions of doing business.

[49 FR 30414, July 30, 1984. Redesignated at 54 FR 601, Jan. 9, 1989, as amended at 63 FR 31924, June 11, 1998; 79 FR 47568, Aug. 14, 2014]

§ 700.55 Homeland security, emergency preparedness, and critical infrastructure protection and restoration assistance programs within the United States.

Any person requesting priority rating authority or requiring assistance in obtaining rated items supporting homeland security, emergency preparedness, and critical infrastructure protection and restoration related activities should submit a request for such assistance or priority rating authority to the Office of Policy and Program Analysis, Federal Emergency Management Agency, Department of Homeland Security, 500 C Street SW., Washington, DC 20472; telephone: (202) 646–3520; Fax: (202) 646–4060; Email: *fema-dpas@dhs.gov*, Web site: *http://www.fema.gov/defense- production-act-program-division*.

[79 FR 47568, Aug. 14, 2014]

§ 700.56 Military assistance programs with Canada.

(a) To promote military assistance to Canada, this section provides for authorizing priority ratings to persons in Canada to obtain items in the United States in support of approved programs. Although priority ratings have no legal authority outside of the United States, this section also provides information on how persons in the United States may obtain informal assistance in Canada in support of approved programs.

(b) The joint United States-Canadian military arrangements for the defense of North America and the integrated nature of the United States and Canadian defense industries require close coordination and the establishment of a means to provide mutual assistance to the defense industries located in both countries.

(c) The Department of Commerce coordinates with the Canadian Public Works and Government Services Canada on all matters of mutual concern relating to the administration of this part.

(d) Any person in the United States ordering defense items in Canada in support of an approved program should inform the Canadian supplier that the items being ordered are to be used to fill a rated order. The Canadian supplier should be informed that if production materials are needed from the United States by the supplier or the supplier's vendor to fill the order, the supplier or vendor should contact the Canadian Public Works and Government Services Canada for authority to place rated orders in the United States: Public Works and Government Services Canada, Acquisitions Branch, Business Management Directorate, Phase 3, Place du Portage, Level 0A1, 11 Laurier Street, Gatineau, Quebec, K1A 0S5, Canada; Telephone: (819) 956–6825; Fax: (819) 956–7827, or electronically at *DGA Prioritesdedefense.ACQBDefencePriorities@tpsgc-pwgsc.gc.ca*.

(e) Any person in Canada producing defense items for the Canadian government may also obtain priority rating authority for items to be purchased in the United States by applying to the Canadian Public Works and Government Services Canada, Acquisitions Branch, Business Management Directorate, in accordance with its procedures.

(f) Persons in Canada needing special priorities assistance in obtaining defense items in the United States may apply to the Canadian Public Works and Government Services Canada, Acquisitions Branch, Business Management Directorate, for such assistance. Public Works and Government Services

Canada will forward appropriate requests to the Department of Commerce.

(g) Any person in the United States requiring assistance in obtaining items in Canada must submit a request through the Delegate Agency to the Office of Strategic Industries and Economic Security, U.S. Department of Commerce on Form BIS–999. The Department of Commerce will forward appropriate requests to the Canadian Public Works and Government Services Canada.

[79 FR 47568, Aug. 14, 2014]

§ 700.57 Military assistance programs with other nations and international organizations.

(a) *Scope*. To promote military assistance to foreign nations and international organizations (for example, the North Atlantic Treaty Organization or the United Nations), this section provides for authorizing priority ratings to persons in foreign nations or international organizations to obtain items in the United States in support of approved programs. Although priority ratings have no legal authority outside of the United States, this section also provides information on how persons in the United States may obtain informal assistance in Australia, Finland, Italy, The Netherlands, Spain, Sweden, and the United Kingdom in support of approved programs.

(b) *Foreign nations and international organizations*. (1) Any person in a foreign nation other than Canada, or any person in an international organization, requiring assistance in obtaining items in the United States or priority rating authority for items to be purchased in the United States, should submit a request for such assistance or priority rating authority to: the Department of Defense DPAS Lead in the Office of the Deputy Assistant Secretary of Defense for Manufacturing and Industrial Base Policy, 3330 Defense Pentagon, Room 3B854, Washington, DC 20301; Telephone: (703) 697–0051; Fax: (703) 695–4885; Email: *MIBP@osd.mil*, Web site: *http://www.acq.osd.mil/mibp*.

(i) If the end product is being acquired by a U.S. Government agency, the request should be submitted to the Department of Defense DPAS Lead through the U.S. contract administration representative.

(ii) If the end product is being acquired by a foreign nation or international organization, the request must be sponsored prior to its submission to the Department of Defense DPAS Lead by the government of the foreign nation or the international organization that will use the end product.

(2) If the Department of Defense endorses the request, it will be forwarded to the Department of Commerce for appropriate action.

(c) *Requesting assistance in Australia, Finland, Italy, The Netherlands, Spain, Sweden, and the United Kingdom*. (1) The Department of Defense has entered into bilateral security of supply arrangements with Australia, Finland, Italy, The Netherlands, Spain, Sweden, and the United Kingdom that allow the Department of Defense to request the priority delivery for Department of Defense contracts, subcontracts, and orders from companies in these countries.

(2) Any person in the United States requiring assistance in obtaining the priority delivery of a contract, subcontract, or order in Australia, Finland, Italy, The Netherlands, Spain, Sweden, or the United Kingdom to support an approved program should contact the Department of Defense DPAS Lead in the Office of the Deputy Assistant Secretary of Defense for Manufacturing and Industrial Base Policy for assistance. Persons in Australia, Finland, Italy, The Netherlands, Spain, Sweden, and the United Kingdom should request assistance in accordance with paragraph (b)(1) of this section.

[79 FR 47568, Aug. 14, 2014, as amended at 80 FR 50762, Aug. 21, 2015]

§ 700.58 Critical infrastructure assistance programs to foreign nations and international organizations.

(a) *Scope*. To promote critical infrastructure assistance to foreign nations, this section provides for authorizing priority ratings to persons in foreign nations or international organizations (for example the North Atlantic Treaty Organization or the United Nations) to

obtain items in the United States in support of approved programs.

(b) *Foreign nations or international organizations.* Any person in a foreign nation or representing an international organization requiring assistance in obtaining items to be purchased in the United States for support of critical infrastructure protection and restoration should submit a request for such assistance or priority rating authority to the Office of Policy and Program Analysis, Federal Emergency Management Agency, Department of Homeland Security, 500 C Street SW., Washington, DC 20472; telephone: (202) 646–3520; Fax: (202) 646–4060; Email: *fema-dpas@dhs.gov*, Web site: *http://www.fema.gov/defense -production-act-program -division*.

[79 FR 47568, Aug. 14, 2014]

Subpart I—Official Actions

§ 700.60 General provisions.

(a) The Department of Commerce may, from time-to-time, take specific official actions to implement or enforce the provisions of this part.

(b) Some of these official actions (rating authorizations and letters of understanding) are discussed in this subpart. Official actions that pertain to compliance (administrative subpoenas, demands for information, and inspection authorizations) are discussed in § 700.71(c). Directives are discussed in § 700.62.

[79 FR 47569, Aug. 14, 2014]

§ 700.61 Rating authorizations.

(a) A rating authorization is an official action granting specific priority rating authority that:

(1) Permits a person to place a priority rating on an order for an item not normally ratable under this regulation; or

(2) Authorizes a person to modify a priority rating on a specific order or series of contracts or orders.

(b) To request priority rating authority, see § 700.51.

[49 FR 30414, July 30, 1984. Redesignated at 54 FR 601, Jan. 9, 1989, as amended at 79 FR 47570, Aug. 14, 2014]

§ 700.62 Directives.

(a) A directive is an official action which requires a person to take or refrain from taking certain actions in accordance with its provisions.

(b) A person must comply with each directive issued. However, a person may not use or extend a directive to obtain any items from a supplier, unless expressly authorized to do so in the directive.

(c) Directives take precedence over all DX rated orders, DO rated orders, and unrated orders previously or subsequently received, unless a contrary instruction appears in the directive.

[49 FR 30414, July 30, 1984. Redesignated at 54 FR 601, Jan. 9, 1989, as amended at 79 FR 47570, Aug. 14, 2014]

§ 700.63 Letters of understanding.

(a) A letter of understanding is an official action which may be issued in resolving special priorities assistance cases to reflect an agreement reached by all parties (the Department of Commerce, the Delegate Agency, the supplier, and the customer).

(b) A letter of understanding is not used to alter scheduling between rated orders, to authorize the use of priority ratings, to impose restrictions under this regulation, or to take other official actions. Rather, letters of understanding are used to confirm production or shipping schedules which do not require modifications to other rated orders.

[49 FR 30414, July 30, 1984. Redesignated at 54 FR 601, Jan. 9, 1989, as amended at 79 FR 47570, Aug. 14, 2014]

Subpart J—Compliance

§ 700.70 General provisions.

(a) Compliance actions may be taken for any reason necessary or appropriate to the enforcement or the administration of the Defense Production Act, the Selective Service Act and related statutes, this part, or an official action. Such actions include audits, investigations, or other inquiries.

(b) Willful violation of any of the provisions of Title I or section 705 of the Defense Production Act, this part, or an official action of the Department

of Commerce, is a criminal act, punishable as provided in the Defense Production Act and as set forth in § 700.74 of this part.

[49 FR 30414, July 30, 1984. Redesignated at 54 FR 601, Jan. 9, 1989, as amended at 63 FR 31924, June 11, 1998; 79 FR 47570, Aug. 14, 2014]

§ 700.71 Audits and investigations.

(a) Audits and investigations are official actions involving the examination of books, records, documents, other writings and information to ensure that the provisions of the Defense Production Act, the Selective Service Act and related statutes, and this part have been properly followed. An audit or investigation may also include interviews and a systems evaluation to detect problems or failures in the implementation of this part.

(b) When undertaking an audit, investigation, or other inquiry, the Department of Commerce shall:

(1) Define the scope and purpose in the official action given to the person under investigation, and

(2) Have ascertained that the information sought or other adequate and authoritative data are not available from any Federal or other responsible agency.

(c) In administering this part, the Department of Commerce may issue the following documents, which constitute official actions:

(1) *Administrative subpoenas.* An administrative subpoena requires a person to appear as a witness before an official designated by the Department of Commerce to testify under oath on matters of which that person has knowledge relating to the enforcement or the administration of the Defense Production Act, the Selective Service Act and related statutes, or this part. An administrative subpoena may also require the production of books, papers, records, documents and physical objects or property.

(2) *Demand for information.* A demand for information requires a person to furnish to a duly authorized representative of the Department of Commerce any information necessary or appropriate to the enforcement or the administration of the Defense Production Act, the Selective Service Act, or this part.

(3) *Inspection authorizations.* An inspection authorization requires a person to permit a duly authorized representative of the Department of Commerce to interview the person's employees or agents, to inspect books, records, documents, other writings and information in the person's possession or control at the place where that person usually keeps them, and to inspect a person's property when such interviews and inspections are necessary or appropriate to the enforcement or the administration of the Defense Production Act, the Selective Service Act, or this part.

(d) The production of books, records, documents, other writings and information will not be required at any place other than where they are usually kept if, prior to the return date specified in the administrative subpoena or demand for information, a duly authorized official of the Department of Commerce is furnished with copies of such material that are certified under oath to be true copies. As an alternative, a person may enter into a stipulation with a duly authorized official of the Department of Commerce as to the content of the material.

(e) An administrative subpoena, demand for information, or inspection authorization shall include the name, title or official position of the person to be served, the evidence sought to be adduced, and its general relevance to the scope and purpose of the audit, investigation, or other inquiry. If employees or agents are to be interviewed; if books, records, documents, other writings, or information are to be produced; or if property is to be inspected; the administrative subpoena, demand for information, or inspection authorization will describe them with particularity.

(f) Service of documents shall be made in the following manner:

(1) Service of a demand for information or inspection authorization shall be made personally, or by certified mail—return receipt requested at the person's last known address. Service of an administrative subpoena shall be made personally. Personal service may also be made by leaving a copy of the document with someone at least 18

years of age at the person's last known dwelling or place of business.

(2) Service upon other than an individual may be made by serving a partner, corporate officer, or a managing or general agent authorized by appointment or by law to accept service of process. If an agent is served, a copy of the document shall be mailed to the person named in the document.

(3) Any individual 18 years of age or older may serve an administrative subpoena, demand for information, or inspection authorization. When personal service is made, the individual making the service shall prepare an affidavit as to the manner in which service was made and the identity of the person served, and return the affidavit, and in the case of subpoenas, the original document, to the issuing officer. In case of failure to make service, the reasons for the failure shall be stated on the original document.

[79 FR 47570, Aug. 14, 2014]

§ 700.72 Compulsory process.

(a) If a person refuses to permit a duly authorized representative of the Department of Commerce to have access to any premises or source of information necessary to the administration or enforcement of the Defense Production Act or this part, the Department of Commerce may seek compulsory process. Compulsory process means the institution of appropriate legal action, including *ex parte* application for an inspection warrant or its equivalent, in any forum of appropriate jurisdiction.

(b) Compulsory process may be sought in advance of an audit, investigation, or other inquiry, if, in the judgment of the Director of the Office of Strategic Industries and Economic Security, U.S. Department of Commerce, in consultation with the Chief Counsel for Industry and Security, U.S. Department of Commerce, there is reason to believe that a person will refuse to permit an audit, investigation, or other inquiry, or that other circumstances exist which make such process desirable or necessary.

[49 FR 30414, July 30, 1984. Redesignated at 54 FR 601, Jan. 9, 1989, as amended at 63 FR 31924, June 11, 1998; 67 FR 45633, July 10, 2002; 71 FR 39528, July 13, 2006; 79 FR 47570, Aug. 14, 2014]

§ 700.73 Notification of failure to comply.

(a) At the conclusion of an audit, investigation, or other inquiry, or at any other time, the Department of Commerce may inform the person in writing where compliance with the requirements of the Defense Production Act, the Selective Service Act and related statutes, or this part were not met.

(b) In cases where the Department of Commerce determines that failure to comply with the provisions of the Defense Production Act, the Selective Service Act and related statutes, or this part was inadvertent, the person may be informed in writing of the particulars involved and the corrective action to be taken. Failure to take corrective action may then be construed as a willful violation of the Defense Production Act, this part, or an official action.

[79 FR 47570, Aug. 14, 2014]

§ 700.74 Violations, penalties, and remedies.

(a) Willful violation of the provisions of Title I or Sections 705 or 707 of the Defense Production Act, the priorities provisions of the Selective Service Act and related statutes or this part is a crime and upon conviction, a person may be punished by fine or imprisonment, or both. The maximum penalty provided by the Defense Production Act is a $10,000 fine, or one year in prison, or both. The maximum penalty provided by the Selective Service Act is a $50,000 fine, or three years in prison, or both.

(b) The government may also seek an injunction from a court of appropriate jurisdiction to prohibit the continuance of any violation of, or to enforce compliance with, the Defense Production Act, this part, or an official action.

(c) In order to secure the effective enforcement of the Defense Production Act, this part, and official actions, the

following are prohibited (see section 704 of the Defense Production Act; see also, for example, sections 2 and 371 of Title 18 United States Code):

(1) No person may solicit, influence or permit another person to perform any act prohibited by, or to omit any act required by, the Defense Production Act, this part, or an official action.

(2) No person may conspire or act in concert with any other person to perform any act prohibited by, or to omit any act required by, the Defense Production Act, this part, or an official action.

(3) No person shall deliver any item if the person knows or has reason to believe that the item will be accepted, redelivered, held, or used in violation of the Defense Production Act, this part, or an official action. In such instances, the person must immediately notify the Department of Commerce that, in accordance with this section, delivery has not been made.

[79 FR 47571, Aug. 14, 2014]

§ 700.75 Compliance conflicts.

If compliance with any provision of the Defense Production Act, the Selective Service Act and related statutes, this regulation, or an official action would prevent a person from filling a rated order or from complying with another provision of the Defense Production Act, this regulation, or an official action, the person must immediately notify the Department of Commerce for resolution of the conflict.

[49 FR 30414, July 30, 1984. Redesignated at 54 FR 601, Jan. 9, 1989, as amended at 63 FR 31924, June 11, 1998]

Subpart K—Adjustments, Exceptions, and Appeals

§ 700.80 Adjustments or exceptions.

(a) A person may submit a request to the Office of Strategic Industries and Economic Security, U.S. Department of Commerce, for an adjustment or exception on the ground that:

(1) A provision of this part or an official action results in an undue or exceptional hardship on that person not suffered generally by others in similar situations and circumstances; or

(2) The consequence of following a provision of this part or an official action is contrary to the intent of the Defense Production Act, the Selective Service Act and related statutes, or this part.

(b) Each request for adjustment or exception must be in writing and contain a complete statement of all the facts and circumstances related to the provision of this part or official action from which adjustment is sought and a full and precise statement of the reasons why relief should be provided.

(c) The submission of a request for adjustment or exception shall not relieve any person from the obligation of complying with the provisions of this part or official action in question while the request is being considered unless such interim relief is granted in writing by the Office of Strategic Industries and Economic Security. The Office of Strategic Industries and Economic Security shall respond to requests for adjustment of or exceptions to compliance with the provisions of this part or an official action within 25 (twenty-five) days, not including Saturdays, Sundays or Government holidays, of the date of receipt.

(d) A decision of the Office of Strategic Industries and Economic Security under this section may be appealed to the Assistant Secretary for Export Administration, U.S. Department of Commerce. (For information on the appeal procedure, see § 700.81.)

[49 FR 30414, July 30, 1984. Redesignated at 54 FR 601, Jan. 9, 1989, as amended at 63 FR 31924, 31925, June 11, 1998; 79 FR 47571, Aug. 14, 2014]

§ 700.81 Appeals.

(a) Any person who has had a request for adjustment or exception denied by the Office of Strategic Industries and Economic Security under § 700.80, may appeal to the Assistant Secretary for Export Administration, Department of Commerce, who shall review and reconsider the denial. Such appeals should be submitted to the Office of the Assistant Secretary for Export Administration, Bureau of Industry and Security, Department of Commerce, Room 3886, Washington, DC 20230, Ref: DPAS Appeals.

(b) Appeals of denied requests for exceptions from or adjustments to compliance with the provisions of this part or an official action must be received by the Assistant Secretary for Export Administration no later than 45 days after receipt of a written notice of denial from the Office of Strategic Industries and Economic Security. After this 45-day period, an appeal may be accepted at the discretion of the Assistant Secretary for Export Administration.

(c) Each appeal must be in writing and contain a complete statement of all the facts and circumstances related to the action appealed from and a full and precise statement of the reasons the decision should be modified or reversed.

(d) In addition to the written materials submitted in support of an appeal, an appellant may request, in writing, an opportunity for an informal hearing. This request may be granted or denied at the discretion of the Assistant Secretary for Export Administration.

(e) When a hearing is granted, the Assistant Secretary for Export Administration may designate an employee of the Department of Commerce to conduct the hearing and to prepare a report. The hearing officer shall determine all procedural questions and impose such time or other limitations deemed reasonable. In the event that the hearing officer decides that a printed transcript is necessary, all expenses shall be borne by the appellant.

(f) When determining an appeal, the Assistant Secretary for Export Administration may consider all information submitted during the appeal as well as any recommendations, reports, or other relevant information and documents available to the Department of Commerce, or consult with any other persons or groups.

(g) The submission of an appeal under this section shall not relieve any person from the obligation of complying with the provisions of this part or official action in question while the appeal is being considered, unless such relief is granted in writing by the Assistant Secretary for Export Administration.

(h) The decision of the Assistant Secretary for Export Administration shall be made within a reasonable time after receipt of the appeal and shall be the final administrative action. It shall be issued to the appellant in writing with a statement of the reasons for the decision.

[49 FR 30414, July 30, 1984. Redesignated at 54 FR 601, Jan. 9, 1989, as amended at 63 FR 31925, June 11, 1998; 71 FR 39528, July 13, 2006; 79 FR 47571, Aug. 14, 2014]

Subpart L—Miscellaneous Provisions

§ 700.90 Protection against claims.

A person shall not be held liable for damages or penalties for any act or failure to act resulting directly or indirectly from compliance with any provision of this part, or an official action, notwithstanding that such provision or action shall subsequently be declared invalid by judicial or other competent authority.

[49 FR 30414, July 30, 1984. Redesignated at 54 FR 601, Jan. 9, 1989, as amended at 79 FR 47571, Aug. 14, 2014]

§ 700.91 Records and reports.

(a) Persons are required to make and preserve for at least three years, accurate and complete records of any transaction covered by this part (OMB control number 0694–0053) or an official action.

(b) Records must be maintained in sufficient detail to permit the determination, upon examination, of whether each transaction complies with the provisions of this part or any official action. However, this part does not specify any particular method or system to be used.

(c) Records required to be maintained by this part must be made available for examination on demand by duly authorized representatives of the Department of Commerce as provided in § 700.71.

(d) In addition, persons must develop, maintain, and submit any other records and reports to the Department of Commerce that may be required for the administration of the Defense Production Act, the Selective Service Act and related statutes, and this part.

(e) Section 705(d) of the Defense Production Act provides that information obtained under this section which the President deems confidential, or with

reference to which a request for confidential treatment is made by the person furnishing such information, shall not be published or disclosed unless the President determines that the withholding of this information is contrary to the interest of the national defense. Information required to be submitted to the Department of Commerce in connection with the enforcement or administration of the Act, this part, or an official action, is deemed to be confidential under section 705(d) of the Act and shall not be published or disclosed except as required by law.

[49 FR 30414, July 30, 1984. Redesignated at 54 FR 601, Jan. 9, 1989, as amended at 63 FR 31924, 31925, June 11, 1998; 79 FR 47571, Aug. 14, 2014]

§ 700.92 Applicability of this part and official actions.

(a) This part and all official actions, unless specifically stated otherwise, apply to transactions in any state, territory, or possession of the United States and the District of Columbia.

(b) This part and all official actions apply not only to deliveries to other persons but also include deliveries to affiliates and subsidiaries of a person and deliveries from one branch, division, or section of a single entity to another branch, division, or section under common ownership or control.

(c) This part and its schedules shall not be construed to affect any administrative actions taken by the Department of Commerce, or any outstanding contracts or orders placed pursuant to any of the regulations, orders, schedules or delegations of authority under the Defense Materials System and Defense Priorities System previously issued by the Department of Commerce. Such actions, contracts, or orders shall continue in full force and effect under this part unless modified or terminated by proper authority.

(d) The repeal of any provision of this part, orders, schedules and delegations of authority of the Defense Materials System (DMS) and Defense Priorities System (DPS) shall not have the effect to release or extinguish any penalty or liability incurred under the DMS/DPS. The DMS/DPS shall be treated as still remaining in force for the purpose of sustaining any action for the enforcement of such penalty or liability.

[49 FR 30414, July 30, 1984. Redesignated at 54 FR 601, Jan. 9, 1989, as amended at 79 FR 47571, Aug. 14, 2014]

§ 700.93 Communications.

General communications concerning this part, including how to obtain copies of this part and explanatory information, requests for guidance or clarification, may be addressed to the Office of Strategic Industries and Economic Security, Room 3876, Department of Commerce, Washington, DC 20230, Ref: DPAS; telephone (202) 482–3634, email *DPAS@bis.doc.gov*. Request for priorities assistance under § 700.50, adjustments or exceptions under § 700.80, or appeals under § 700.81, must be submitted in the manner specified in those sections.

[79 FR 47571, Aug. 14, 2014]

SCHEDULE I TO PART 700—APPROVED PROGRAMS AND DELEGATE AGENCIES

The programs listed in this schedule have been approved for priorities support under this part by the Department of Defense,[1] the Department of Energy or the Department of Homeland Security, in accordance with section 202 of Executive Order 13603. They have equal preferential status. The Department of Commerce has authorized the delegate agencies listed in

[1] Department of Defense includes: The Office of the Secretary of Defense, the Military Departments, the Joint Staff, the Combatant Commands, the Defense Agencies, the Defense Field Activities, all other organizational entities in the Department of Defense, and, for purposes of this part, the Central Intelligence Agency and the National Aeronautics and Space Administration as associated agencies.

the third column to use this part in support of those programs assigned to them, as indicated below.[2]

Program identification symbol	Approved program	Agency(ies)
Defense Programs		
A1	Aircraft	Department of Defense.
A2	Missiles	Department of Defense.
A3	Ships	Department of Defense.
A4	Tank—Automotive	Department of Defense.
A5	Weapons	Department of Defense.
A6	Ammunition	Department of Defense.
A7	Electronic and communications equipment	Department of Defense.
B1	Military building supplies	Department of Defense.
B8	Production equipment (for defense contractor's account).	Department of Defense.
B9	Production equipment (Government owned)	Department of Defense.
C1	Food resources (combat rations)	Department of Defense.
C2	Department of Defense construction	Department of Defense.
C3	Maintenance, repair, and operating supplies (MRO) for Department of Defense facilities.	Department of Defense.
C9	Miscellaneous	Department of Defense.
Military Assistance to Canada		
D1	Canadian military programs	Department of Commerce.
D2	Canadian production and construction	Department of Commerce.
D3	Canadian atomic energy program	Department of Commerce.
Military Assistance to Other Foreign Nations		
G1	Certain munitions items purchased by foreign governments through domestic commercial channels for export.	Department of Commerce.
G2	Certain direct defense needs of foreign governments other than Canada.	Department of Commerce.
G3	Foreign nations (other than Canada) production and construction.	Department of Commerce.
Critical Infrastructure Assistance to Foreign Nations		
G4	Foreign critical infrastructure programs	Department of Commerce.
Co-Production		
J1	F–16 Co-Production Program	Departments of Commerce and Defense.
Atomic Energy Programs		
E1	Construction	Department of Energy.
E2	Operations—including maintenance, repair, and operating supplies (MRO).	Department of Energy.
E3	Privately owned facilities	Department of Energy.
Domestic Energy Programs		
F1	Exploration, production, refining, and transportation.	Department of Energy.
F2	Conservation	Department of Energy.
F3	Construction, repair, and maintenance	Department of Energy.
Other Defense, Energy, and Related Programs		
H1	Certain combined orders (see section 700.17(c))	Department of Commerce.
H5	Private domestic production	Department of Commerce.
H6	Private domestic construction	Department of Commerce.
H7	Maintenance, repair, and operating supplies (MRO).	Department of Commerce.
H8	Designated Programs	Department of Commerce.

[2]The Department of Commerce is also listed as an agency in the third column for programs where its authorization is necessary to place rated orders.

Program identification symbol	Approved program	Agency(ies)
K1	Federal supply items	General Services Administration.
Homeland Security Programs		
N1	Federal emergency preparedness, mitigation, response, and recovery.	Department of Homeland Security.
N2	State, local, tribal government emergency preparedness, mitigation, response, and recovery.	Department of Homeland Security.
N3	Intelligence and warning systems	Department of Homeland Security.
N4	Border and transportation security	Department of Homeland Security.
N5	Domestic counter-terrorism, including law enforcement.	Department of Homeland Security.
N6	Chemical, biological, radiological, and nuclear countermeasures.	Department of Homeland Security.
N7	Critical infrastructure protection and restoration	Department of Homeland Security.
N8	Miscellaneous	Department of Homeland Security.

[79 FR 47572, Aug. 14, 2014]

APPENDIX I TO PART 700—FORM BIS–999—REQUEST FOR SPECIAL PRIORITIES ASSISTANCE

FORM BIS-999 *(formerly form BXA-999)*
REV. 4-03

U.S. DEPARTMENT OF COMMERCE
BUREAU OF INDUSTRY AND SECURITY

FOR DOC USE OMB NO. 0694-0057

CASE NO. _____

RECEIVED _____

ASSIGNED TO _____

REQUEST FOR SPECIAL PRIORITIES ASSISTANCE

READ INSTRUCTIONS ON LAST PAGE
FILL OUT USING YOUR COMPUTER

Submission of a completed application is required to request Special Priorities Assistance (SPA). See sections 700.50-55 of the Defense Priorities and Allocations System (DPAS) regulation (15 CFR 700). It is a criminal offense under 18 U.S.C. 1001 to make a willfully false statement or representation to any U.S. Government agency as to any matter within its jurisdiction. All company information furnished related to this application will be deemed BUSINESS CONFIDENTIAL under Sec. 705(d) of the Defense Production Act of 1950 [50 U.S.C. App. 2155(d)] which prohibits publication or disclosure of this information unless the President determines that withholding it is contrary to the interest of the national defense. The Department of Commerce will assert the appropriate Freedom of Information Act (FOIA) exemptions if such information is the subject of FOIA requests. The unauthorized publication or disclosure of such information by Government personnel is prohibited by law. Violators are subject to fine and/or imprisonment. [Note: The Bureau of Export Administration is now the Bureau of Industry and Security (BIS).]

1. APPLICANT INFORMATION

a. Name and complete address of Applicant (Applicant can be any person needing assistance - Government agency, contractor, or supplier. See definition of "Applicant" in Footnotes section on last page of this form).

Applicant Name _____

Address _____

City _____ State _____ Zip _____

Contact's name _____

Title _____

Telephone _____ Fax _____

E-mail address: _____

b. If Applicant is not end-user Government agency, give name and complete address of Applicant's customer.

Customer Name _____

Address _____

City _____ State _____ Zip _____

Contact's name _____

Title _____

Telephone _____ FAX _____

Contract/purchase order no. _____

Dated _____ Priority rating _____

2. APPLICANT ITEM(S). If Applicant is not end-user Government agency, describe item(s) to be delivered by Applicant under its customer's contract or purchase order through the use of item(s) listed in Block 3. If known, identify Government program and end-item for which these items are required. If Applicant is end-user Government agency and Block 3 item(s) are not end-items, identify the end-item for which the Block 3 item(s) are required. See definition of "item" in Footnotes section on last page of this form.

3. ITEM(S) (including service) FOR WHICH APPLICANT REQUESTS ASSISTANCE

Quantity *Pieces, units*	**Description** *Include identifying information such as model or part number*	**Dollar Value** *Each quantity listed*

4. SUPPLIER INFORMATION

a. Name and complete address of Applicant's Supplier.

Supplier Name _____

Address _____

City _____ State _____ Zip _____

Contact Name _____

Title _____

Telephone _____ Fax _____

E-mail address: _____

b. Applicant's contract or purchase order to Supplier.

Number _____

Dated _____

Priority rating _____
(If none, so state)

If Supplier is an agent or distributor, give complete producer or lower tier supplier information in Continuation Block on page 3, including purchase order number, date, and priority rating (if none, so state).

5. SHIPMENT SCHEDULE OF ITEM(S) SHOWN IN BLOCK 3

a. Applicant's original shipment/performance requirement	Month Year							Total units
	Number of units							
b. Supplier's original shipment/performance promise	Month Year							Total units
	Number of units							
c. Applicant's current shipment/performance requirement	Month Year							Total units
	Number of units							
d. Supplier's current shipment/performance promise	Month Year							Total units
	Number of units							

6. REASONS GIVEN BY SUPPLIER for inability to meet Applicant's required shipment or performance date(s).

7. BRIEF STATEMENT OF NEED FOR ASSISTANCE. As applicable, explain effect of delay in receipt of Block 3 item(s) on achieving timely shipment of Block 2 item(s) (e.g., production line shutdown), or the impact on program or project schedule. Describe attempts to resolve problems and give specific reasons why assistance is required. If priority rating authority is requested, please so state.

8. CERTIFICATION: I certify that the information contained in Blocks 1 - 7 of this form, and all other information attached, is correct and complete to the best of my knowledge and belief (omit signature if this form is electronically generated and transmitted - use of name is deemed certification).

_____ _____
Signature of Applicant's authorized official Title

_____ _____
Print or type name of authorized official Date

9. U.S. GOVERNMENT AGENCY INFORMATION

a. Name/complete address of cognizant sponsoring service/agency/activity headquarters office. Provide lower level activity, program, project, contract administration, or field office information in Continuation Block below, on duplicate of this page, or on separate sheet of paper.

Name _____

Address _____

City _____ State _____ Zip _____

Contact name _____

Signature _____ Date _____

Title _____

Telephone _____ Fax _____

E-mail address: _____

b. Case reference no. _____

c. Government agency program or project to be supported by Block 2 item(s). Identify end-user agency if not sponsoring agency.

d. Statement of urgency of particular program or project and Applicant's part in it. Specify the extent to which failure to obtain requested assistance will adversely affect the program or project.

e. Government agency/activity actions taken to attempt resolution of problem.

f. **RECOMMENDATION**

g. **ENDORSEMENT** by authorized Department or Agency headquarters official (omit signature if this form is electronically generated and transmitted – use of name is deemed authorization). This endorsement is required for all Department of Defense and foreign government requests for assistance.

_____ Signature of authorized official

_____ Type name of authorized official

_____ Title

_____ Date

CONTINUATION BLOCK

Identify each statement with appropriate block number

INSTRUCTIONS FOR FILING FORM BIS-999

NOTE: You may fill out this form using your computer. Save the downloaded blank file to your computer and generate forms for submission via U.S. mail, e-mail, or fax. Navigate between the form's data fields using the tab key, back tab or backspace.

REQUESTS FOR SPECIAL PRIORITIES ASSISTANCE (SPA) MAY BE FILED for any reason in support of the Defense Priorities and Allocations System (DPAS); e.g.: when its regular provisions are not sufficient to obtain delivery of item(s)[1] in time to meet urgent customer or program/project requirements; for help in locating a supplier or placing a rated order; to ensure that rated orders are receiving necessary preferential treatment by suppliers; to resolve production or delivery conflicts between or among rated orders; to verify the urgency or determine the validity of rated orders; or to request authority to use a priority rating. **Requests for SPA must be sponsored by the cognizant U.S. Government agency responsible for the program or project supported by the Applicant's[2] contract or purchase order.**

REQUESTS FOR SPA SHOULD BE TIMELY AND MUST ESTABLISH:

- The urgent defense (including civil emergency) or energy program or project related need for the item(s); and that
- The Applicant has made a reasonable effort to resolve the problem.

APPLICANT MUST COMPLETE BLOCKS 1-8. SPONSORING U.S. GOVERNMENT AGENCY/ACTIVITY MUST COMPLETE BLOCKS 9-10. Sponsoring agency, if not the Department of Defense (DOD), must obtain DOD concurrence if the agency is supporting a DOD program or project. This form may be mechanically or electronically prepared and may be mailed, FAXed, or electronically transmitted.

WHERE TO FILE THIS FORM:

- Private sector Applicants should file with their respective customers as follows: **lower-tier suppliers** file with customer/subcontractor for forwarding to subcontractor/prime contractor; **subcontractors/suppliers** file with prime contractor for forwarding to one of the below listed cognizant U.S. Government (DPAS Delegate) agencies; **prime contractors** file directly with one of the below listed cognizant U.S. Government (DPAS Delegate) agencies:
  - **Department of Defense (DOD)** -- File with the local Defense Contract Management Area Office, plant representative or contracting officer, or the appropriate DOD military service, associated agency, program, or project office.
  - **Department of Energy (DOE)** -- File with the appropriate Field Operations Office. Requests for SPA for domestic energy projects should be filed with DOE headquarters in Washington, D.C.
  - **General Services Administration (GSA)** and **Federal Emergency Management Agency (FEMA)** -- File with the contracting officer in the agency's regional office or with its headquarters office in Washington, D.C.
- Applicants who are lower level **contract administration, program, project, or field offices**, or when these activities cannot resolve the private sector request for assistance, should forward this form to cognizant sponsoring service/agency/activity headquarters for review, Block 10 endorsement, and forwarding to the U.S. Department of Commerce. **Foreign government or private sector entities** should file directly with the DOD Office of the Secretary of Defense. **Timely review and forwarding is essential to providing timely assistance.**
- If for any reason the Applicant is unable to file this form as specified above, see CONTACTS FOR FURTHER INFORMATION below.

CONTACTS FOR FURTHER INFORMATION:

- For any information related to the production or delivery of items against particular rated contracts or purchase orders, contact the cognizant U.S. Government agency, activity, contract administration, program, project, or field office (see WHERE TO FILE above).
- If for any reason the Applicant is unable to file this form as specified in WHERE TO FILE above, if the cognizant U.S. Government agency for filing this form
  cannot be determined, or for any other information or problems related to the completion and filing of this form, the operation or administration of the DPAS, or to obtain a copy of the DPAS or any DPAS training materials, contact the **Office of Strategic Industries and Economic Security, Room 3876, U.S. Department of Commerce, Washington, D.C. 20230 (Attn.: DPAS); telephone (202) 482-3634, or FAX (202) 482-5650.**

APPLICANTS REQUIRING PRIORITY RATING AUTHORIZATION TO OBTAIN PRODUCTION OR CONSTRUCTION EQUIPMENT for the performance of rated contracts or orders in support of DOD programs or projects must file **DOD Form DD-691, "Application for Priority Rating for Production or Construction Equipment"** in accordance with the instructions on that form. For DOE, GSA, or FEMA programs or projects, Applicants may use this form unless the agency requires its own form.

SPECIAL INSTRUCTIONS:

- If the space in any block is insufficient to provide a clear and complete statement of the information requested, use the **Continuation Block** provided on this form or a separate sheet to be attached to this form.
- Entries in Block 3 should be limited to information from a single contract or purchase order. If SPA is requested for additional contracts or purchase orders placed with a supplier for the same or similar items, information from these contracts or purchase orders may be included in one application. However, each contract or purchase order number must be identified and the quantities, priority rating, delivery requirements, etc., must be shown separately.
- If disclosure of certain information on this form is prohibited by security regulations or other security considerations, enter "classified" in the appropriate block in lieu of the restricted information.

FOOTNOTES:

1. "Item" is defined in the DPAS as any raw, in process or manufactured material, article, commodity, supply, equipment, component, accessory, part, assembly, or product of any kind, technical information, process or service.

2. "Applicant" as used in this form, refers to any person requiring Special Priorities Assistance, and eligible for such assistance under the DPAS. "Person" is defined in the DPAS to include any individual, corporation, partnership, association, any other organized group of persons, a U.S. Government agency, or any other government.

BURDEN ESTIMATE AND REQUEST FOR COMMENT

Public reporting burden for this collection of information is estimated to average 30 minutes per response, including the time for reviewing instructions, gathering the data needed, and completing the form. Please send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to the Director of Administration, Bureau of Industry and Security, Room 3889, U.S. Department of Commerce, Washington, D.C. 20230. Notwithstanding any other provision of law, no person is required to respond to, nor shall a person be subject to a penalty for failure to comply with, a collection of information subject to the requirements of the Paperwork Reduction Act unless that collection of information displays a currently valid OMB Control Number.

[71 FR 39529, July 13, 2006]

PART 701—REPORTING OF OFFSETS AGREEMENTS IN SALES OF WEAPON SYSTEMS OR DEFENSE-RELATED ITEMS TO FOREIGN COUNTRIES OR FOREIGN FIRMS

Sec.
701.1 Purpose.
701.2 Definitions.
701.3 Applicability and scope.
701.4 Procedures.
701.5 Confidentiality.
701.6 Violations, penalties, and remedies.

AUTHORITY: 50 U.S.C. 4568; E.O. 12919, 59 FR 29525, 3 CFR, 1994 Comp., p. 901; E.O. 13286, 68 FR 10619, 3 CFR, 2003 Comp., p. 166.

SOURCE: 59 FR 61796, Dec. 2, 1994, unless otherwise noted.

§ 701.1 Purpose.

The Defense Production Act Amendments of 1992 require the Secretary of Commerce to promulgate regulations for U.S. firms entering into contracts for the sale of defense articles or defense services to foreign countries or foreign firms that are subject to offset agreements exceeding $5,000,000 in value to furnish information regarding such agreements. The Secretary of Commerce has designated the Bureau of Industry and Security as the organization responsible for implementing this provision. The information provided by U.S. firms will be aggregated and used to determine the impact of offset transactions on the defense preparedness, industrial competitiveness, employment, and trade of the United States. Summary reports are submitted annually to Congress pursuant to Section 309 of the Defense Production Act of 1950, as amended.

[59 FR 61796, Dec. 2, 1994, as amended at 74 FR 68140, Dec. 23, 2009]

§ 701.2 Definitions.

(a) *Offsets*. Compensation practices required as a condition of purchase in either government-to-government or commercial sales of:

(1) Defense articles and/or defense services as defined by the Arms Export Control Act and the International Traffic in Arms Regulations; or

(2) Items controlled under an Export Control Classification Number (ECCN) that has the numeral ''6'' as its third character in the Commerce Control List found in supplement no. 1 to part 774 of this chapter other than semi-submersible and submersible vessels specially designed for cargo transport and parts, components, accessories and attachments specially designed therefor controlled under ECCN 8A620.b; test, inspection and production equipment controlled in ECCN 8B620.b, software controlled in ECCN 8D620.b and technology controlled in ECCN 8E620.b.

(b) *Military Export Sales*. Exports that are either Foreign Military Sales (FMS) or commercial (direct) sales of:

(1) Defense articles and/or defense services as defined by the Arms Export Control Act and International Traffic in Arms Regulations; or

(2) Items controlled under an Export Control Classification Number (ECCN) that has the numeral ''6'' as its third character in the Commerce Control List found in supplement no. 1 to part 774 of this chapter other than semi-submersible and submersible vessels specially designed for cargo transport and parts, components, accessories and attachments specially designed therefor controlled under ECCN 8A620.b; test, inspection and production equipment controlled in ECCN 8B620.b; software controlled in ECCN 8D620.b; and technology controlled in ECCN 8E620.b.

(c) *Prime Contractor*. A firm that has a sales contract with a foreign entity or with the U.S. Government for military export sales.

(d) *United States*. Includes the 50 states, the District of Columbia, Puerto Rico, and U.S. territories.

(e) *Offset Agreement*. Any offset as defined above that the U.S. firm agrees to in order to conclude a military export sales contract. This includes all offsets, whether they are ''best effort'' agreements or are subject to penalty clauses.

(f) *Offset Transaction*. Any activity for which the U.S. firm claims credit for full or partial fulfillment of the offset agreement. Activities to implement offset agreements are categorized as co-production, technology transfer, subcontracting, credit assistance, training, licensed production, investment, purchases and other. Paragraphs

(f)(1) through (f)(8) of this section provide examples of the categories of offset transactions.

(1) *Example 1.* Company A, a U.S. firm, contracts for Company B, a foreign firm located in country C, to produce a component of a U.S.-origin defense article subject to an offset agreement between Company A and country C. The defense article will be sold to country C pursuant to a Foreign Military Sale and the production role of Company B is described in the Letter of Offer and Acceptance associated with that sale and a government-to-government co-production memorandum of understanding. This transaction would be categorized as co-production and would, like all co-production transactions, be direct.

(2) *Example 2.* Company A, a U.S. firm, transfers technology to Company B, a foreign firm located in country C, which allows Company B to conduct research and development directly related to a defense article that is subject to an offset agreement between Company A and country C. This transaction would be categorized as technology transfer and would be direct because the research and development is directly related to an item subject to the offset agreement.

(3) *Example 3.* Company A, a U.S. firm, contracts for Company B, a foreign firm located in country C, to produce a component of a U.S.-origin defense article subject to an offset agreement between Company A and country C. The contract with Company B is for a direct commercial sale and Company A does not license Company B to use any technology. The transaction would be categorized as subcontracting and would, like all subcontracting transactions, be direct.

(4) *Example 4.* Company A, a U.S. firm, makes arrangements for a line of credit at a financial institution for Company B, a foreign firm located in country C, so that Company B can produce an item that is not subject to the offset agreement between Company A and country C. The transaction would be categorized as credit assistance and would be indirect because the credit assistance is unrelated to an item covered by the offset agreement.

(5) *Example 5.* Company A, a U.S. firm, arranges for training of personnel from Company B, a foreign firm located in country C. The training is related to the production and maintenance of a U.S.-origin defense article that is subject to an offset agreement between Company A and country C. The transaction would be categorized as training and would be direct because the training is directly related to the production and maintenance of an item covered by the offset agreement.

(6) *Example 6.* Company A, a U.S. firm, contracts for Company B, a foreign firm located in country C, to produce a component of a U.S.-origin defense article that is subject to an offset agreement between Company A and country C. The contract with Company B is a Foreign Military Sale and Company A licenses Company B to use Company A's production technology to produce the component. There is no co-production agreement between the United States and country C. The transaction would be categorized as licensed production and would be direct because it involves the item covered by the offset agreement.

(7) *Example 7.* Company A, a U.S. firm, makes an investment in Company B, a foreign firm located in country C, so that Company B can create a new production line to produce a component of a defense article that is subject to an offset agreement between Company A and country C. The transaction would be categorized as investment and would be direct because the investment involves an item covered by the offset agreement.

(8) *Example 8.* Company A, a U.S. firm, purchases various off-the-shelf items from Company B, a foreign firm located in country C, but none of these items will be used by Company A to produce the defense article subject to the offset agreement between Company A and country C. The transaction would be categorized as purchases and would, like all purchase transactions, be indirect.

(g) *Direct Offset.* An offset transaction directly related to the article(s) or service(s) exported or to be exported pursuant to the military export sales agreement. See the examples illustrating offset transactions of this type

in §§ 701.2(f)(1), 701.2(f)(2), 701.2(f)(3), 701.2(f)(5), 701.2(f)(6) and 701.2(f)(7) of this part.

(h) *Indirect Offset*. An offset transaction unrelated to the article(s) or service(s) exported or to be exported pursuant to the military export sales agreement. See the examples illustrating offset transactions of this type in §§ 701.2(f)(4) and 701.2(f)(8) of this part.

[59 FR 61796, Dec. 2, 1994, as amended at 74 FR 68140, Dec. 23, 2009; 81 FR 10474, Mar. 1, 2016]

§ 701.3 Applicability and scope.

(a) This part applies to U.S. firms entering contracts that are subject to an offset agreement exceeding $5,000,000 in value and that are for the sale to a foreign country or foreign firm of:

(1) Defense articles and/or defense services as defined by the Arms Export Control Act and International Traffic in Arms Regulations; or

(2) Items controlled under an Export Control Classification Number (ECCN) that has the numeral ''6'' as its third character in the Commerce Control List found in supplement no. 1 to part 774 of this chapter other than semi-submersible and submersible vessels specially designed for cargo transport and parts, components, accessories and attachments specially designed therefor controlled under ECCN 8A620.b; test, inspection and production equipment controlled in ECCN 8B620.b; software controlled in ECCN 8D620.b and technology controlled in ECCN 8E620.b.

(b) This rule applies to all offset transactions completed in performance of existing offset commitments since January 1, 1993 for which offset credit of $250,000 or more has been claimed from the foreign representative, and new offset agreements entered into since that time.

[59 FR 61796, Dec. 2, 1994, as amended at 81 FR 10474, Mar. 1, 2016]

§ 701.4 Procedures.

(a) *Reporting period*. The Department of Commerce publishes a notice in the FEDERAL REGISTER annually reminding the public that U.S. firms are required to report annually on contracts for the sale of defense-related items or defense-related services to foreign governments or foreign firms that are subject to offset agreements exceeding $5,000,000 in value. U.S. firms are also required to report annually on offset transactions completed in performance of existing offset commitments for which offset credit of $250,000 or more has been claimed from the foreign representative. Such reports must be submitted to the Department of Commerce no later than June 15 of each year and must contain offset agreement and transaction data for the previous calendar year.

(b) *Reporting instructions*. (1) U.S. firms must only report on offset agreements they have entered into with a foreign customer. U.S. firms must report offset transactions that they are directly responsible for reporting to the foreign customer, regardless of who performs the transaction (*i.e.*, prime contractors must report for their subcontractors if the subcontractors are not a direct party to the offset agreement).

(2) Reports must be submitted in hardcopy to the Offset Program Manager, U.S. Department of Commerce, Bureau of Industry and Security, Room 3876, 14th Street and Constitution Avenue, NW., Washington, DC 20230, and as an e-mail attachment to *OffsetReport@bis.doc.gov*. E-mail attachments must include the information in a computerized spreadsheet or database format. If unable to submit a report in computerized format, companies should contact the Offset Program Manager for guidance. All submissions must include a point of contact (name and telephone number) and must be submitted by a company official authorized to provide such information.

(c) Reports must include the information described below. Any necessary comments or explanations relating to the information shall be footnoted and supplied on separate sheets attached to the reports.

(1) *Reporting on offset agreements*. U.S. firms shall provide an itemized list of new offset agreements entered into during the reporting period, including the information about each such agreement described in paragraphs (c)(1)(i) through (c)(1)(ix) of this section.

(i) *Name of foreign country*. Identify the country of the foreign entity involved in the military export sale associated with the offset agreement.

(ii) *Description of the military export sale*. Provide a name and description of the defense article and/or defense service referenced in the military export sale, as well as the date (month and year) that the related offset agreement was signed.

(iii) *Military export sale classification*. Identify the six-digit North American Industry Classification System (''NAICS'') code(s) associated with the military export sale. Refer to U.S. Census Bureau's U.S. NAICS Manual for a listing of applicable NAICS codes (*http://www.census.gov/epcd /www/ naics.html*). Paragraphs (c)(1)(iii)(A) through (c)(1)(iii)(E) of this section provide examples that illustrate how to select the appropriate NAICS code(s).

(A) *Example 1*. Company A enters into an offset agreement associated with the sale of 24 fighter aircraft and guided missiles to country B. Fighter aircraft manufacturing is classified in the NAICS as NAICS 336411, Aircraft Manufacturing. Guided missiles are classified in the NAICS as NAICS 336414, Guided Missile and Space Vehicle Manufacturing. This military export sale should be classified under NAICS 336411 and NAICS 336414.

(B) *Example 2*. Company B enters into an offset agreement associated with the sale of a navigation system for a fleet of military aircraft to country C. Navigation system manufacturing is classified in the NAICS as NAICS 334511, Search, Detection, Navigation, Guidance, Aeronautical, and Nautical System and Instrument Manufacturing. This military export sale should be classified under NAICS 334511.

(C) *Example 3*. Company C enters into an offset agreement associated with the sale of radio communication equipment to country D. Radio communication equipment is classified in the NAICS as NAICS 334220, Radio and Television Broadcasting and Wireless Communication Equipment Manufacturing. This military export sale should be classified under NAICS 334220.

(D) *Example 4*. Company D enters into an offset agreement associated with the sale of 30 aircraft engines to country E. Aircraft engines are classified in the NAICS as NAICS 336412, Aircraft Engine and Engine Parts Manufacturing. This military export sale should be classified under NAICS 336412.

(E) *Example 5*. Company E enters into an offset agreement associated with the sale of armored vehicles to country F. Armored vehicles are classified in the NAICS as NAICS 336992, Military Armored Vehicle, Tank, and Tank Component Manufacturing. This military export sale should be classified under NAICS 336992.

(iv) *Foreign party to offset agreement*. Identify the foreign government agency or branch that is the signatory to the offset agreement.

(v) *Military export sale value*. Provide the U.S. dollar value of the military export sale. Should the military export sale involve more than one NAICS code, please separately list the values associated with each NAICS code.

(vi) *Offset agreement value*. Provide the U.S. dollar value of the offset agreement.

(vii) *Offset agreement term*. Identify the term of the offset agreement in months.

(viii) *Offset agreement performance measures*. Identify each category that describes the offset agreement's performance measures: best efforts, accomplishment of obligation, or other (please describe).

(ix) *Offset agreement penalties for non-performance*. Identify each category that describes the offset agreement's penalties for non-performance. For example, the agreement may include penalties such as liquidated damages, debarment from future contracts, added offset requirements, fees, commissions, bank credit guarantees, or other (please describe).

(2) *Reporting on offset transactions*. U.S. firms shall provide an itemized list of offset transactions completed during the reporting period, including the elements listed in paragraphs (c)(2)(i) through (c)(2)(x) of this section for each such transaction (numerical estimates are acceptable when actual

figures are unavailable; estimated figures shall be followed by the letter ''E'').

(i) *Name of foreign country*. Identify the country of the foreign entity involved in the military export sale associated with the offset transaction.

(ii) *Description of the military export sale*. Provide a name and description of the defense article and/or defense service referenced in the military export sale associated with the offset transaction, as well as the date the offset agreement was signed (month and year).

(iii) *Offset transaction category*. Identify each category that describes the offset transaction as co-production, technology transfer, subcontracting, training, licensing of production, investment, purchasing, credit assistance or other (please describe).

(iv) *Offset transaction classification*. Identify the six-digit NAICS code(s) associated with the offset transaction. Refer to U.S. Census Bureau's U.S. NAICS Manual for a listing of applicable NAICS codes (*http://www.census.gov/epcd /www/naics.html*). Paragraphs (c)(2)(iv)(A) through (c)(2)(iv)(E) of this section provide examples that illustrate how to select the appropriate NAICS code in the instances described therein.

(A) *Example 1*. Company A completes an offset transaction by co-producing aircraft engines in country B. Aircraft engine manufacturing is classified in the NAICS as NAICS 336412, Aircraft Engine and Engine Parts Manufacturing. This offset transaction should be classified under NAICS 336412.

(B) *Example 2*. Company B completes an offset transaction by licensing the production of automotive electrical switches in country C. Company B also assists in structuring a wholesale distribution network for these products. Automotive electrical switch manufacturing is classified in the NAICS as NAICS 335931, Current Carrying Wiring Device Manufacturing, and the wholesale distribution network is classified in the NAICS as NAICS 423120, Motor Vehicle Supplies and New Parts Merchant Wholesalers. This offset transaction should be classified under NAICS 335931 and NAICS 423120.

(C) *Example 3*. Company C completes an offset transaction by transferring technology to establish a biotechnology research center in country D. Biotechnology research and development is classified in the NAICS as NAICS 541711, Research and Development in Biotechnology. This offset transaction should be classified under NAICS 541711.

(D) *Example 4*. Company D completes an offset transaction by purchasing steel forgings from a steel mill in country E. Steel forgings are classified in the NAICS as NAICS 331111, Iron and Steel Mills. This offset transaction should be classified under NAICS 331111.

(E) *Example 5*. Company E completes an offset transaction by providing training assistance services in country F to certain plant managers. Training assistance is classified in the NAICS as NAICS 611430, Professional and Management Development Training. This offset transaction should be classified under NAICS 611430.

(v) *Offset transaction type*. Identify the offset transaction as a direct offset transaction, an indirect offset transaction, or a combination of both.

(vi) *Name of offset performing entity*. Identify, by name, the entity performing the offset transaction on behalf of the U.S. entity that entered into the offset agreement.

(vii) *Name of offset receiving entity*. Identify the foreign entity receiving benefits from the offset transaction.

(viii) *Actual offset value*. Provide the U.S. dollar value of the offset transaction without taking into account multipliers or intangible factors. Should the offset transaction involve more than one NAICS code, please list the U.S. dollar values associated with each NAICS code.

(ix) *Offset credit value*. Provide the U.S. dollar value credits claimed by the offset performing entity, including any multipliers or intangible factors.

(x) *Offset transaction performance location*. Name the country where each offset transaction was fulfilled, such as the purchasing country, the United States, or a third country.

[74 FR 68141, Dec. 23, 2009]

§ 701.5 Confidentiality.

(a) As provided by § 309(c) of the Defense Production Act of 1950, as amended, BIS shall not publicly disclose the information it receives pursuant to this part, unless the firm furnishing the information subsequently specifically authorizes public disclosure.

(b) Public disclosure must be authorized in writing by an official of the firm competent to make such an authorization.

(c) Nothing in this provision shall prevent the use of data aggregated from information provided pursuant to this part in the summary report to the Congress described in § 701.1.

§ 701.6 Violations, penalties, and remedies.

(a) Willful violation of the Defense Production Act may result in punishment by fine or imprisonment, or both. The maximum penalty provided by the Defense Production Act is a $10,000 fine, or one year in prison, or both.

(b) The Government may seek an injunction from a court of appropriate jurisdiction to prohibit the continuance of any violation of, or to enforce compliance with, the Defense Production Act and this regulation.

[74 FR 68141, Dec. 23, 2009]

PART 702—INDUSTRIAL BASE SURVEYS—DATA COLLECTIONS

Sec.

702.1 Introduction.
702.2 Scope and purpose of surveys—avoiding duplicative requests for information.
702.3 Confidential information.
702.4 Requirement to comply with surveys or other requests for information.
702.5 Consequences of failure to comply.
702.6 Definitions.
SUPPLEMENT NO. 1 TO PART 702—GENERAL SURVEY INFORMATION

AUTHORITY: 50 U.S.C. 4501 *et seq.;* E.O. 13603, 77 FR 16651, 3 CFR, 2012 Comp., p. 225.

SOURCE: 80 FR 41430, July 15, 2015, unless otherwise noted.

§ 702.1 Introduction.

In accordance with 50 U.S.C. app. 2155, the Bureau of Industry and Security (BIS) may obtain such information from, require such reports and the keeping of such records by, make an inspection of the books, records, and other writings, premises or property of, take the sworn testimony of and administer oaths and affirmations to, any person as may be necessary or appropriate, in its discretion, to the enforcement or the administration of its authorities and responsibilities under the Defense Production Act of 1950 as amended (DPA) and any regulations or orders issued thereunder. BIS's authorities under the DPA (50 U.S.C. app. 2061 *et seq.*) include authority to collect data via surveys to perform industry studies assessing the capabilities of the United States industrial base to support the national defense and develop policy recommendations to improve both the international competitiveness of specific domestic industries and their ability to meet national defense program needs.

§ 702.2 Scope and purpose of surveys—avoiding duplicative requests for information.

(a) BIS will not send any survey to any person for completion unless the scope and purpose of the survey have been established, that scope and purpose are consistent with BIS's authorities under the DPA, and the data requested by the survey does not duplicate adequate and authoritative data already available to BIS from a Federal or other authoritative source.

(b) BIS personnel of appropriate competence and authority will ensure that the requirements of paragraph (a) of this section are met.

(c) This section shall not be construed as limiting the criteria that BIS may consider in determining whether to proceed with a survey. This paragraph shall not be construed as replacing or in any way modifying the requirements of the Paperwork Reduction Act (44 U.S.C. 3501 *et seq.*).

§ 702.3 Confidential information.

This section implements section 705(d) of the DPA.

(a) BIS deems all information submitted in response to a survey issued pursuant to this part to be confidential.

(b) Any person submitting information in response to a survey issued pursuant to this part may request confidential treatment of that information.

(c) The President's authority under the DPA to protect confidential information has been delegated to the Under Secretary for Industry and Security. The information described in paragraphs (a) and (b) of this section shall not be published or disclosed unless the Under Secretary for Industry and Security determines that the withholding thereof is contrary to the interest of the national defense.

(d) Any person convicted of willfully violating the prohibition in paragraph (c) of this section may be fined not more than $10,000 or imprisoned for not more than one year, or both.

§ 702.4 Requirement to comply with surveys or other requests for information.

(a) *Requirement to comply*. Every person who receives a survey or other request for information issued pursuant to this part must submit a complete and adequate response to BIS within the time frame stated on the initial distribution letter or other request for information. Survey response information that does not adhere to the survey question criteria or that contains only aggregate information in place of specified information will be treated as inadequate and therefore noncompliant. BIS may exempt persons from this requirement for the reasons in paragraph (b) of this section, or grant extensions of time to comply as set forth in paragraph (c) of this section. Submitting a request to BIS for an exemption or an extension of time for completion does not suspend the initial deadline required by BIS (or any extended deadline subsequently granted by BIS). Thus, persons who request an exemption or extension of time are advised to proceed as if the response is required by the deadline until advised otherwise by BIS.

(b) *Grounds for exemption*. (1) An exemption from the requirements of this section may be granted if the person receiving the survey or other request for information:

(i) Has no physical presence in the United States of any kind;

(ii) Does not provide, produce, distribute, utilize, procure, research, develop, consult or advise on, or have any other direct or indirect association with the materials, products, services or technology that are within the scope of the survey;

(iii) Has ceased business operations more than 12 months prior to receipt of the survey;

(iv) Has been in business for less than one year; or

(v) BIS determines that extenuating circumstances exist that make responding impractical.

(2) BIS may also grant an exemption if, based on the totality of the circumstances, it concludes that compliance would be impractical and/or that requiring compliance would be unduly time intensive.

(3) Existence of a pre-existing private non-disclosure agreement or information sharing agreement between a person and another party (*e.g.*, customers, suppliers, etc.), does not exempt a person from the obligation to comply with and complete a survey. The authority to conduct the survey and comply with the survey is derived from the DPA, and that statutory obligation to comply supersedes any private agreement.

(c) *Extensions of time to complete*. A person who receives a survey or other request for information may request an extension of time to submit the complete response to BIS. BIS may grant such an extension of time, if, in its judgment, circumstances are such that additional time reasonably is needed, the extension would not jeopardize timely completion of BIS's overall analysis, and the person is making reasonable progress towards completing the survey or response to the other request for information. Generally, extensions will be for no more than two weeks. A person who receives a survey or other request for information may request successive extensions if the person believes that it continues to have a legitimate need for additional time to complete the survey. BIS will not grant extensions that would jeopardize the performance and timely completion of its industrial base assessments.

(d) *Procedure for requesting exemptions or extensions of time.* Requests for exemptions or extensions of time must be made to BIS at the telephone number, email address or BIS physical address provided in the initial distribution letter for a survey or in the other request for information. A request for an exemption must provide factual information and documentation that are adequate for BIS to determine that one or more of the criteria stated in paragraph (b) or (c) of this section are met.

(e) *Responses that are incomplete or inadequate.* BIS may return responses that are incomplete or inadequate to the person for prompt completion. BIS will specify the required period of time permitted for completion and submission of the revised survey.

§ 702.5 Consequences of failure to comply.

(a) *Civil.* If any person fails to comply with the requirements of § 702.4, BIS may issue a subpoena requiring that person to submit the information called for in the survey. In the case of contumacy or refusal to obey such a subpoena, the U.S. Government may apply for an order by the United States district court in a district where that person resides or transacts business that would compel the person to submit the completed survey.

(b) *Criminal.* In accordance with 50 U.S.C. app. 2155, any person who willfully fails to comply with § 702.4, may, upon conviction, be fined not more than $10,000 or imprisoned not more than one year, or both.

§ 702.6 Definitions.

The definitions in this section apply throughout this part.

Confidential. A description of information that is subject to the disclosure prohibitions of the DPA (50 U.S.C. app. 2155(d)).

Initial distribution letter. A letter that BIS sends to a person that has been identified by the U.S. Government as a supplier or customer of materials, products or services used for activities of the industry that is the focus of a survey. The letter describes the survey's primary objectives, how survey results will assist the U.S. Government, and the confidential treatment of the information submitted. The letter also includes BIS contact information.

Person. The term ''person'' includes:

(1) An individual, corporation, partnership, association, or any other organized group of persons, or legal successor or representative thereof;

(2) Any State or local government or agency thereof;

(3) The Government of the United States, of the District of Columbia, of any commonwealth, territory or possession of the United States, or any department, agency or commission thereof.

NOTE TO THE DEFINITION OF ''PERSON.'' Paragraph (1) of this definition is not limited to commercial or for-profit organizations. For example, the term ''any other organized group of persons'' may encompass labor unions, academic institutions, charitable organizations or any group of persons who are organized in some manner. The term corporation is not limited to publicly traded corporations or corporations that exist for the purpose of making a profit.

Survey. A questionnaire or other request for information that collects detailed information and data to support both the assessment of a particular industrial sector or technology and the development of a corresponding study.

SUPPLEMENT NO. 1 TO PART 702—GENERAL SURVEY INFORMATION

This supplement provides general information about surveys and the content of the typical survey. The content of this supplement is purely an example of a typical survey, and in no way limits the content that may appear in a specific Bureau of Industry and Security (BIS)-issued survey. Procedures and content vary from survey to survey, and as such, there is no set template to follow. Nonetheless, BIS is offering this information as a basic guide to some elements of a survey.

Survey Structure

Most surveys include the following sections: Cover Page; Table of Contents; General Instructions; Glossary of Terms; Organizational Information, and sector-specific sections.

—The cover page typically includes the title of the survey, its scope, an explanation of the legal requirement to comply, the burden estimate for compliance with the survey, the Office of Management and Budget (OMB) control number, and the survey date of expiration.

—The General Instructions section normally includes process steps necessary for a person's survey submittal. These include but are not limited to instructions for survey completion, survey support staff point-of-contact information, the name and address of the presiding BIS official, and instructions for both survey certification and submittal.

—The Glossary of Terms section explains terms contained in the survey. Terms contained in the survey may be unique to the subject matter of the industry assessment, and therefore may change in meaning from survey to survey. Therefore, it is important to follow the specific instructions and defined terms contained in the specific survey you receive, regardless of any previous survey you might have completed.

—The Organization Information section requests information related to the person in receipt of the survey, including address information, the source level of response (*e.g.*, facility, business unit, division, corporate consolidated, etc.), point of contact details, and other pertinent contact information.

The survey is generally organized in a question and answer format and is presented on an electronic survey system. Each survey is specially tailored to collect the specific information requested. Therefore, specific detailed information is what should be submitted in response to a survey requesting such information.

—For example, if we ask for a listing of your customers that order widget A, your response should not be a listing of your entire customer base. Only the information pertaining to customers' ordering widget A is responsive to that kind of question.

Also note that your reply to a survey request is compulsory, unless you meet the criteria for exemption set forth in the body of the regulation. Therefore, any non-disclosure agreements or similar agreements you may have with your customers or clients are not applicable to a survey's request for information. Compliance with the survey is required by the DPA. Accordingly, compliance with that statutory requirement is paramount to any private agreement you have with your customers or other parties.

In addition to the aforementioned sections, each survey contains sections tailored to the specific scope of the study, including but not limited to Facility Locations, Products and Services, Inventories, Suppliers and Customers, Challenges and Organizational Outlook, Employment, Operations, Financial Statements, Sales, Research and Development, and Capital Expenditures.

Examples of survey terms.

Certification: A section of the survey in which a person (an authorizing official) certifies that the information supplied in response to the survey is complete and correct, to the best of the person's knowledge.

Facility: A building or the minimum complex of buildings or parts of buildings in which a person operates to serve a particular function, producing revenue and incurring costs for the person. A facility may produce an item of tangible or intangible property or may perform a service. It may encompass a floor or group of floors within a building, a single building, or a group of buildings or structures. Often, a facility is a group of related locations at which employees work, together constituting a profit-and-loss center for the person, and it may be identified by a unique Dun and Bradstreet number.

Sole source: An organization that is the only source for the supply of parts, components, materials, or services. No alternative U.S. or non-U.S. based supplier exists other than the current supplier.

Survey template: The data collection instrument supplied by BIS to persons by which survey information is recorded and submitted to BIS. The survey is generally organized in a question and answer format and is presented on an electronic survey system.

Supplier: An entity from which your organization obtains inputs. A supplier may be another firm with which you have a contractual relationship, or it may be another facility owned by the same parent organization. The inputs may be materials, products or services.

PARTS 703–704 [RESERVED]

PART 705—EFFECT OF IMPORTED ARTICLES ON THE NATIONAL SECURITY

Sec.

705.1 Definitions.
705.2 Purpose.
705.3 Commencing an investigation.
705.4 Criteria for determining effect of imports on the national security.
705.5 Request or application for an investigation.
705.6 Confidential information.
705.7 Conduct of an investigation.
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705.11 Determination by the President and adjustment of imports.
705.12 Disposition of an investigation and report to the Congress.

AUTHORITY: 19 U.S.C. 1862.

SOURCE: 47 FR 14693, Apr. 6, 1982, unless otherwise noted. Redesignated at 54 FR 601, Jan. 9, 1989.

§ 705.1 Definitions.

As used in this part:

Department means the United States Department of Commerce and includes the Secretary of Commerce and the Secretary's designees.

Secretary means the Secretary of Commerce or the Secretary's designees.

Applicant means the person or entity submitting a request or application for an investigation pursuant to this part.

§ 705.2 Purpose.

These regulations set forth the procedures by which the Department shall commence and conduct an investigation to determine the effect on the national security of the imports of any article. Based on this investigation, the Secretary shall make a report and recommendation to the President for action or inaction regarding an adjustment of the imports of the article.

§ 705.3 Commencing an investigation.

(a) Upon request of the head of any government department or agency, upon application of an interested party, or upon motion of the Secretary, the Department shall immediately conduct an investigation to determine the effect on the national security of the imports of any article.

(b) The Secretary shall immediately provide notice to the Secretary of Defense of any investigation initiated under this part.

[47 FR 14693, Apr. 6, 1982. Redesignated at 54 FR 601, Jan. 9, 1989, and amended at 63 FR 31623, June 10, 1998]

§ 705.4 Criteria for determining effect of imports on the national security.

(a) To determine the effect on the national security of the imports of the article under investigation, the Department shall consider the quantity of the article in question or other circumstances related to its import. With regard for the requirements of national security, the Department shall also consider the following:

(1) Domestic production needed for projected national defense requirements;

(2) The capacity of domestic industries to meet projected national defense requirements;

(3) The existing and anticipated availabilities of human resources, products, raw materials, production equipment and facilities, and other supplies and services essential to the national defense;

(4) The growth requirements of domestic industries to meet national defense requirements and the supplies and services including the investment, exploration and development necessary to assure such growth; and

(5) Any other relevant factors.

(b) In recognition of the close relation between the strength of our national economy and the capacity of the United States to meet national security requirements, the Department shall also, with regard for the quantity, availability, character and uses of the imported article under investigation, consider the following:

(1) The impact of foreign competition on the economic welfare of any domestic industry essential to our national security;

(2) The displacement of any domestic products causing substantial unemployment, decrease in the revenues of government, loss of investment or specialized skills and productive capacity, or other serious effects; and

(3) Any other relevant factors that are causing or will cause a weakening of our national economy.

§ 705.5 Request or application for an investigation.

(a) A request or application for an investigation shall be in writing. The original and 1 copy shall be filed with the Director, Office of Technology Evaluation, Room H–1093, U.S. Department of Commerce, Washington, DC 20230.

(b) When a request, application or motion is under investigation, or when an investigation has been completed pursuant to § 705.10 of this part, any subsequently filed request or application concerning imports of the same or related article that does not raise new or different issues may be either consolidated with the investigation in progress as provided in § 705.7(e) of this part, or rejected. In either event, an explanation for taking such action shall be promptly given to the applicant. If the request or application is rejected, it will not be returned unless requested by the applicant.

(c) Requests or applications shall describe how the quantity, availability, character, and uses of a particular imported article, or other circumstances related to its import, affect the national security, and shall contain the following information to the fullest extent possible:

(1) Identification of the applicant;

(2) A precise description of the article;

(3) Description of the domestic industry affected, including pertinent information regarding companies and their plants, locations, capacity and current output of the industry;

(4) Pertinent statistics on imports and domestic production showing the quantities and values of the article;

(5) Nature, sources, and degree of the competition created by imports of the article;

(6) The effect that imports of the article may have upon the restoration of domestic production capacity in the event of national emergency;

(7) Employment and special skills involved in the domestic production of the article;

(8) Extent to which the national economy, employment, investment, specialized skills, and productive capacity is or will be adversely affected;

(9) Revenues of Federal, State, or local Governments which are or may be adversely affected;

(10) National security supporting uses of the article including data on applicable contracts or sub-contracts, both past and current; and

(11) Any other information or advice relevant and material to the subject matter of the investigation.

(d) Statistical material presented should be, if possible, on a calendar-year basis for sufficient periods of time to indicate trends. Monthly or quarterly data for the latest complete years should be included as well as any other breakdowns which may be pertinent to show seasonal or short-term factors.

[47 FR 14693, Apr. 6, 1982. Redesignated at 54 FR 601, Jan. 9, 1989, and amended at 63 FR 31623, June 10, 1998; 65 FR 62600, Oct. 19, 2000; 72 FR 25195, May 4, 2007]

§ 705.6 Confidential information.

(a) Any information or material which the applicant or any other party desires to submit in confidence at any stage of the investigation that would disclose national security classified information or business confidential information (trade secrets, commercial or financial information, or any other information considered senstitive or privileged), shall be submitted on separate sheets with the clear legend ''National Security Classified'' or ''Business Confidential,'' as appropriate, marked at the top of each sheet. Any information or material submitted that is identified as national security classified must be accompanied at the time of filing by a statement indicating the degree of classification, the authority for the classification, and the identity of the classifying entity. By submitting information or material identified as business confidential, the applicant or other party represents that the information is exempted from public disclosure, either by the Freedom of Information Act (5 U.S.C. 552 *et seq.*) or by some other specific statutory exemption. Any request for business confidential treatment must be accompanied at the time of filing by a statement justifying non-disclosure and referring to the specific legal authority claimed.

(b) The Department may refuse to accept as business confidential any information or material it considers not intended to be protected under the legal authority claimed by the applicant, or under other applicable legal authority. Any such information or material so refused shall be promptly returned to the submitter and will not be considered. However, such information or material may be resubmitted as non-confidential in which case it will be made part of the public record.

§ 705.7 Conduct of an investigation.

(a) If the Department determines that it is appropriate to afford interested parties an opportunity to present information and advice relevant and material to an investigation, a public notice shall be published in the FEDERAL REGISTER soliciting from any interested party written comments, opinions, data, information or advice relative to the investigation. This material shall be submitted as directed within a reasonable time period to be

specified in the notice. All material shall be submitted with 6 copies. In addition, public hearings may be held pursuant to § 705.8 of this part.

(b) All requests and applications filed and all material submitted by interested parties, except information on material that is classified or determined to be confidential as provided in § 705.6 of this part, will be available for public inspection and copying in the Bureau of Industry and SecurityFreedom of Information Records Inspection Facility, Room H–4525, U.S. Department of Commerce, Washington, DC 20230, in accordance with regulations published in part 4 of title 15, Code of Federal Regulations.

(c) Further information may be requested by the Department from other sources through the use of questionnaires, correspondence, or other appropriate means.

(d) The Department shall, as part of an investigation, seek information and advice from, and consult with, appropriate officers of the United States or their designees, as shall be determined. The Department shall also consult with the Secretary of Defense regarding the methodological and policy questions raised in the investigation. Upon the request of the Secretary, the Secretary of Defense shall provide the Secretary with an assessment of the defense requirements of the article in question. Communications received from agencies of the U.S. government or foreign governments will not be made available for public inspection.

(e) Any request or application that is filed while an investigation is in progress, concerning imports of the same or related article and raising similar issues, may be consolidated with the request, application or motion that initiated the investigation.

[47 FR 14693, Apr. 6, 1982. Redesignated at 54 FR 601, Jan. 9, 1989 and amended at 54 FR 19355, May 5, 1989; 63 FR 31623, June 10, 1998]

§ 705.8 Public hearings.

(a) If it is deemed appropriate by the Department, public hearings may be held to elicit further information.

(1) A notice of hearing shall be published in the FEDERAL REGISTER describing the date, time, place, the subject matter of each hearing and any other information relevant to the conduct of the hearing. The name of a person to contact for additional information or to request time to speak at the hearing shall also be included. Public hearings may be held in more than one location.

(2) Hearings shall be open to the public unless national security classified information will be presented. In that event the presiding officer at the hearing shall close the hearing, as necessary, to all persons not having appropriate security clearances or not otherwise authorized to have access to such information. If it is known in sufficient time prior to the hearing that national security classified information will be presented the notice of hearing published in the FEDERAL REGISTER shall state that national security classified information will be presented and that the hearing will be open only to those persons having appropriate security clearances or otherwise specifically authorized to have access to such information.

(b) Hearings shall be conducted as follows:

(1) The Department shall appoint the presiding officer;

(2) The presiding officer shall determine all procedural matters during the hearing;

(3) Interested parties may appear, either in person or by representation, and produce oral or written information relevant and material to the subject matter of the investigation;

(4) Hearings will be fact-finding proceedings without formal pleadings or adverse parties. Formal rules of evidence will not apply;

(5) After a witness has testified, the presiding officer may question the witness. Questions submitted to the presiding officer in writing by any interested party may, at the discretion of the presiding officer, be posed to the witness. No cross examination of any witness by a party shall be allowed.

(6) Each hearing will be stenographically reported. Transcripts of the hearing, excluding any national security classified information, may be purchased from the Department at actual cost of duplication, and will be available for public inspection in the Bureau of Industry and Security Freedom of

Information Records Inspection Facility, Room H–4525, U.S. Department of Commerce, Washington, DC 20230.

[47 FR 14693, Apr. 6, 1982. Redesignated at 54 FR 601, Jan. 9, 1989 and amended at 54 FR 19355, May 5, 1989; 63 FR 31623, June 10, 1998]

§ 705.9 Emergency action.

In emergency situations, or when in the judgment of the Department, national security interests require it, the Department may vary or dispense with any or all of the procedures set forth in § 705.7 of this part.

§ 705.10 Report of an investigation and recommendation.

(a) When an investigation conducted pursuant to this part is completed, a report of the investigation shall be promptly prepared.

(b) The Secretary shall report to the President the findings of the investigation and a recommendation for action or inaction within 270 days after beginning an investigation under this part.

(c) An Executive Summary of the Secretary's report to the President of an investigation, excluding any classified or proprietary information, shall be published in the FEDERAL REGISTER. Copies of the full report, excluding any classified or proprietary information, will be available for public inspection and copying in the Bureau of Industry and Security Freedom of Information Records Inspection Facility, Room H–4525, U.S. Department of Commerce, 14th Street, N.W., Washington, D.C. 20230; tel. (202) 482–5653.

[63 FR 31623, June 10, 1998]

§ 705.11 Determination by the President and adjustment of imports.

(a) Upon the submission of a report to the President by the Secretary under § 705.10(b) of this part, in which the Department has found that an article is being imported into the United States in such quantities or under such circumstances as to threaten to impair the national security, the President is required by Section 232(c) of the Trade Expansion Act of 1962, as amended (19 U.S.C. 1862(c)) to take the following action

(1) Within 90 days after receiving the report from the Secretary, the President shall determine:

(i) Whether the President concurs with the Department's finding; and

(ii) If the President concurs, the nature and duration of the action that must be taken to adjust the imports of the article and its derivatives so that the such imports will not threaten to impair the national security.

(2) If the President determines to take action under this section, such action must be taken no later than fifteen (15) days after making the determination.

(3) By no later than thirty (30) days after making the determinations under paragraph (a)(1) of this section, the President shall submit to the Congress a written statement of the reasons why the President has decided to take action, or refused to take action.

(b) If the action taken by the President under this section is the negotiation of an agreement to limit or restrict the importation into the United States of the article in question, and either no such agreement is entered into within 180 days after making the determination to take action, or an executed agreement is not being carried out or is ineffective in eliminating the threat to the national security, the President shall either:

(1) Take such other action as deemed necessary to adjust the imports of the article so that such imports will not threaten to impair the national security. Notice of any such additional action taken shall be published in the FEDERAL REGISTER; or

(2) Not take any additional action. This determination and the reasons on which it is based, shall be published in the FEDERAL REGISTER.

[63 FR 31623, June 10, 1998]

§ 705.12 Disposition of an investigation and report to the Congress.

(a) Upon the disposition of each request, application, or motion made under this part, a report of such disposition shall be submitted by the Secretary to the Congress and published in the FEDERAL REGISTER.

(b) As required by Section 232(e) of the Trade Expansion Act of 1962, as

amended (19 U.S.C. 1862(c)), the President shall submit to the Congress an annual report on the operation of this part.

[63 FR 31623, June 10, 1998]

PARTS 706–709 [RESERVED]

SUBCHAPTER B—CHEMICAL WEAPONS CONVENTION REGULATIONS

PART 710—GENERAL INFORMATION AND OVERVIEW OF THE CHEMICAL WEAPONS CONVENTION REGULATIONS (CWCR)

Sec.
710.1 Definitions of terms used in the Chemical Weapons Convention Regulations (CWCR).
710.2 Scope of the CWCR.
710.3 Purposes of the Convention and CWCR.
710.4 Overview of scheduled chemicals and examples of affected industries.
710.5 Authority.
710.6 Relationship between the Chemical Weapons Convention Regulations and the Export Administration Regulations, the International Traffic in Arms Regulations, and the Alcohol, Tobacco, Firearms, and Explosives Regulations.
SUPPLEMENT NO. 1 TO PART 710—STATES PARTIES TO THE CONVENTION ON THE PROHIBITION OF THE DEVELOPMENT, PRODUCTION, STOCKPILING AND USE OF CHEMICAL WEAPONS AND ON THEIR DESTRUCTION
SUPPLEMENT NO. 2 TO PART 710—DEFINITIONS OF PRODUCTION

AUTHORITY: 22 U.S.C. 6701 *et seq.;* E.O. 13128, 64 FR 36703, 3 CFR 1999 Comp., p. 199.

SOURCE: 71 FR 24929, Apr. 27, 2006, unless otherwise noted.

§ 710.1 Definitions of terms used in the Chemical Weapons Convention Regulations (CWCR).

The following are definitions of terms used in the CWCR (parts 710 through 729 of this subchapter, unless otherwise noted):

Act (The). Means the Chemical Weapons Convention Implementation Act of 1998 (22 U.S.C. 6701 *et seq.*).

Advance Notification. Means a notice informing BIS of a company's intention to export to or import from a State Party a Schedule 1 chemical. This advance notification must be submitted to BIS at least 45 days prior to the date of export or import (except for transfers of 5 milligrams or less of saxitoxin for medical/diagnostic purposes, which must be submitted to BIS at least 3 days prior to export or import). BIS will inform the company in writing of the earliest date the shipment may occur under the advance notification procedure. This advance notification requirement is imposed in addition to any export license requirements under the Department of Commerce's Export Administration Regulations (15 CFR parts 730 through 774) or the Department of State's International Traffic in Arms Regulations (22 CFR parts 120 through 130) or any import license requirements under the Department of Justice's Bureau of Alcohol, Tobacco, Firearms and Explosives Regulations (27 CFR part 447).

Bureau of Industry and Security (BIS). Means the Bureau of Industry and Security of the United States Department of Commerce, including Export Administration and Export Enforcement.

By-product. Means any chemical substance or mixture produced without a separate commercial intent during the manufacture, processing, use or disposal of another chemical substance or mixture.

Chemical Weapon. Means the following, together or separately:

(1) Toxic chemicals and their precursors, except where intended for purposes not prohibited under the Chemical Weapons Convention (CWC), provided that the type and quantity are consistent with such purposes;

(2) Munitions and devices, specifically designed to cause death or other harm through the toxic properties of those toxic chemicals specified in paragraph (1) of this definition, which would be released as a result of the employment of such munitions and devices;

(3) Any equipment specifically designed for use directly in connection with the employment of munitions or devices specified in paragraph (2) of this definition.

Chemical Weapons Convention (CWC or Convention). Means the Convention on the Prohibition of the Development, Production, Stockpiling and Use of Chemical Weapons and on Their Destruction, and its annexes opened for signature on January 13, 1993.

Chemical Weapons Convention Regulations (CWCR). Means the regulations contained in 15 CFR parts 710 through 729.

Consumption. Consumption of a chemical means its conversion into another chemical via a chemical reaction. Unreacted material must be accounted for as either waste or as recycled starting material.

Declaration or report form. Means a multi-purpose form to be submitted to BIS regarding activities involving Schedule 1, Schedule 2, Schedule 3, or unscheduled discrete organic chemicals. Declaration forms will be used by facilities that have data declaration obligations under the CWCR and are ''declared'' facilities whose facility-specific information will be transmitted to the OPCW. Report forms will be used by entities that are ''undeclared'' facilities or trading companies that have limited reporting requirements for only export and import activities under the CWCR and whose facility-specific information will not be transmitted to the OPCW. Information from declared facilities, undeclared facilities and trading companies will also be used to compile U.S. national aggregate figures on the production, processing, consumption, export and import of specific chemicals. See also related definitions of declared facility, undeclared facility and report.

Declared facility or plant site. Means a facility or plant site that submits declarations of activities involving Schedule 1, Schedule 2, Schedule 3, or unscheduled discrete organic chemicals above specified threshold quantities.

Discrete organic chemical. Means any chemical belonging to the class of chemical compounds consisting of all compounds of carbon, except for its oxides, sulfides, and metal carbonates, identifiable by chemical name, by structural formula, if known, and by Chemical Abstract Service registry number, if assigned. (Also see the definition for unscheduled discrete organic chemical.)

Domestic transfer. Means, with regard to declaration requirements for Schedule 1 chemicals under the CWCR, any movement of any amount of a Schedule 1 chemical outside the geographical boundary of a facility in the United States to another destination in the United States, for any purpose. Also means, with regard to declaration requirements for Schedule 2 and Schedule 3 chemicals under the CWCR, movement of a Schedule 2 or Schedule 3 chemical in quantities and concentrations greater than specified thresholds, outside the geographical boundary of a facility in the United States, to another destination in the United States, for any purpose. Domestic transfer includes movement between two divisions of one company or a sale from one company to another. Note that any movement to or from a facility outside the United States is considered an export or import for reporting purposes, not a domestic transfer. (Also see definition of United States.)

EAR. Means the Export Administration Regulations (15 CFR parts 730 through 774).

Explosive. Means a chemical (or a mixture of chemicals) that is included in Class 1 of the United Nations Organization hazard classification system.

Facility. Means any plant site, plant or unit.

Facility Agreement. Means a written agreement or arrangement between a State Party and the Organization relating to a specific facility subject to on-site verification pursuant to Articles IV, V, and VI of the Convention.

Host Team. Means the U.S. Government team that accompanies the inspection team from the Organization for the Prohibition of Chemical Weapons during a CWC inspection for which the regulations in the CWCR apply.

Host Team Leader. Means the representative from the Department of Commerce who heads the U.S. Government team that accompanies the Inspection Team during a CWC inspection for which the regulations in the CWCR apply.

Hydrocarbon. Means any organic compound that contains only carbon and hydrogen.

Impurity. Means a chemical substance unintentionally present with another chemical substance or mixture.

Inspection Notification. Means a written announcement to a plant site by the United States National Authority

(USNA) or the BIS Host Team of an impending inspection under the Convention.

Inspection Site. Means any facility or area at which an inspection is carried out and which is specifically defined in the respective facility agreement or inspection request or mandate or inspection request as expanded by the alternative or final perimeter.

Inspection Team. Means the group of inspectors and inspection assistants assigned by the Director-General of the Technical Secretariat to conduct a particular inspection.

Intermediate. Means a chemical formed through chemical reaction that is subsequently reacted to form another chemical.

ITAR. Means the International Traffic in Arms Regulations (22 CFR parts 120–130).

Organization for the Prohibition of Chemical Weapons (OPCW). Means the international organization, located in The Hague, the Netherlands, that administers the CWC.

Person. Means any individual, corporation, partnership, firm, association, trust, estate, public or private institution, any State or any political subdivision thereof, or any political entity within a State, any foreign government or nation or any agency, instrumentality or political subdivision of any such government or nation, or other entity located in the United States.

Plant. Means a relatively self-contained area, structure or building containing one or more units with auxiliary and associated infrastructure, such as:

(1) Small administrative area;

(2) Storage/handling areas for feedstock and products;

(3) Effluent/waste handling/treatment area;

(4) Control/analytical laboratory;

(5) First aid service/related medical section; and

(6) Records associated with the movement into, around, and from the site, of declared chemicals and their feedstock or product chemicals formed from them, as appropriate.

Plant site. Means the local integration of one or more plants, with any intermediate administrative levels, which are under one operational control, and includes common infrastructure, such as:

(1) Administration and other offices;

(2) Repair and maintenance shops;

(3) Medical center;

(4) Utilities;

(5) Central analytical laboratory;

(6) Research and development laboratories;

(7) Central effluent and waste treatment area; and

(8) Warehouse storage.

Precursor. Means any chemical reactant which takes part, at any stage in the production, by whatever method, of a toxic chemical. The term includes any key component of a binary or multicomponent chemical system.

Processing. Means a physical process such as formulation, extraction and purification in which a chemical is not converted into another chemical.

Production. Means the formation of a chemical through chemical reaction, including biochemical or biologically mediated reaction (see supplement no. 2 to this part).

(1) Production of Schedule 1 chemicals means formation through chemical synthesis as well as processing to extract and isolate Schedule 1 chemicals.

(2) Production of a Schedule 2 or Schedule 3 chemical means all steps in the production of a chemical in any units within the same plant through chemical reaction, including any associated processes (e.g., purification, separation, extraction, distillation, or refining) in which the chemical is not converted into another chemical. The exact nature of any associated process (e.g., purification, etc.) is not required to be declared.

Production by synthesis. Means production of a chemical from its reactants.

Protective purposes in relation to Schedule 1 chemicals. Means any purpose directly related to protection against toxic chemicals and to protection against chemical weapons. Further means the Schedule 1 chemical is used for determining the adequacy of defense equipment and measures.

Purposes not prohibited by the CWC. Means the following:

(1) Any peaceful purpose related to an industrial, agricultural, research, medical or pharmaceutical activity or other activity;

(2) Any purpose directly related to protection against toxic chemicals and to protection against chemical weapons;

(3) Any military purpose of the United States that is not connected with the use of a chemical weapon and that is not dependent on the use of the toxic or poisonous properties of the chemical weapon to cause death or other harm; or

(4) Any law enforcement purpose, including any domestic riot control purpose and including imposition of capital punishment.

Report. Means information due to BIS on exports and imports of Schedule 1, Schedule 2 or Schedule 3 chemicals above applicable thresholds. Such information is included in the national aggregate declaration transmitted to the OPCW. Facility-specific information is not included in the national aggregate declaration. Note: This definition does not apply to parts 719 and 720 of the CWCR (see the definition of ''report'' in § 719.1(b) of the CWCR).

Schedules of Chemicals. Means specific lists of toxic chemicals, groups of chemicals, and precursors contained in the CWC. See Supplements No. 1 to parts 712 through 714 of the CWCR.

State Party. Means a country for which the CWC is in force. See supplement no. 1 to this part.

Storage. For purposes of Schedule 1 chemical reporting, means any quantity that is not accounted for under the categories of production, export, import, consumption or domestic transfer.

Technical Secretariat. Means the organ of the OPCW charged with carrying out administrative and technical support functions for the OPCW, including carrying out the verification measures delineated in the CWC.

Toxic Chemical. Means any chemical which, through its chemical action on life processes, can cause death, temporary incapacitation, or permanent harm to humans or animals. The term includes all such chemicals, regardless of their origin or of their method of production, and regardless of whether they are produced in facilities, in munitions, or elsewhere. Toxic chemicals that have been identified for the application of verification measures are in schedules contained in Supplements No. 1 to parts 712 through 714 of the CWCR.

Trading company. Means any person involved in the export and/or import of scheduled chemicals in amounts greater than specified thresholds, but not in the production, processing or consumption of such chemicals in amounts greater than threshold amounts requiring declaration. If such persons exclusively export or import scheduled chemicals in amounts greater than specified thresholds, they are subject to reporting requirements but are not subject to routine inspections. Such persons must be the principal party in interest of the exports or imports and may not delegate CWC reporting responsibilities to a forwarding or other agent.

Transfer. See domestic transfer.

Transient intermediate. Means any chemical which is produced in a chemical process but, because it is in a transition state in terms of thermodynamics and kinetics, exists only for a very short period of time, and cannot be isolated, even by modifying or dismantling the plant, or altering process operating conditions, or by stopping the process altogether.

Undeclared facility or plant site. Means a facility or plant site that is not subject to declaration requirements because of past or anticipated production, processing or consumption involving scheduled or unscheduled discrete organic chemicals above specified threshold quantities. However, such facilities and plant sites may have a reporting requirement for exports or imports of such chemicals.

Unit. Means the combination of those items of equipment, including vessels and vessel set up, necessary for the production, processing or consumption of a chemical.

United States. Means the several States of the United States, the District of Columbia, and the commonwealths, territories, and possessions of the United States, and includes all places under the jurisdiction or control of the United States, including any of

the places within the provisions of paragraph (41) of section 40102 of Title 49 of the United States Code, any civil aircraft of the United States or public aircraft, as such terms are defined in paragraphs (1) and (37), respectively, of section 40102 of Title 49 of the United States Code, and any vessel of the United States, as such term is defined in section 3(b) of the Maritime Drug Enforcement Act, as amended (section 1903(b) of Title 46 App. of the United States Code).

United States National Authority (USNA). Means the Department of State serving as the national focal point for the effective liaison with the Organization for the Prohibition of Chemical Weapons and other States Parties to the Convention and implementing the provisions of the Chemical Weapons Convention Implementation Act of 1998 in coordination with an interagency group designated by the President consisting of the Secretary of Commerce, Secretary of Defense, Secretary of Energy, the Attorney General, and the heads of other agencies considered necessary or advisable by the President, or their designees. The Secretary of State is the Director of the USNA.

Unscheduled chemical. Means a chemical that is not contained in Schedule 1, Schedule 2, or Schedule 3 (see Supplements No. 1 to parts 712 through 714 of the CWCR).

Unscheduled Discrete Organic Chemical (UDOC). Means any ''discrete organic chemical'' that is not contained in the Schedules of Chemicals (see Supplements No. 1 to parts 712 through 714 of the CWCR) and subject to the declaration requirements of part 715 of the CWCR. Unscheduled discrete organic chemicals subject to declaration under the CWCR are those produced by synthesis that are isolated for use or sale as a specific end-product.

You. The term ''you'' or ''your'' means any person (see also definition of ''person''). With regard to the declaration and reporting requirements of the CWCR, ''you'' refers to persons that have an obligation to report certain activities under the provisions of the CWCR.

[71 FR 24929, Apr. 27, 2006, as amended at 73 FR 78182, Dec. 22, 2008]

§ 710.2 Scope of the CWCR.

The Chemical Weapons Convention Regulations (parts 710 through 729 of this subchapter), or CWCR, implement certain obligations of the United States under the Convention on the Prohibition of the Development, Production, Stockpiling and Use of Chemical Weapons and on Their Destruction, known as the CWC or Convention.

(a) *Persons and facilities subject to the CWCR*. (1) The CWCR apply to all persons and facilities located in the United States, except the following U.S. Government facilities:

(i) Department of Defense facilities;

(ii) Department of Energy facilities; and

(iii) Facilities of other U.S. Government agencies that notify the USNA of their decision to be excluded from the CWCR.

(2) For purposes of the CWCR, ''United States Government facilities'' are those facilities owned and operated by a U.S. Government agency (including those operated by contractors to the agency), and those facilities leased to and operated by a U.S. Government agency (including those operated by contractors to the agency). ''United States Government facilities'' do not include facilities owned by a U.S. Government agency and leased to a private company or other entity such that the private company or entity may independently decide for what purposes to use the facilities.

(b) *Activities subject to the CWCR*. The activities subject to the CWCR (parts 710 through 729 of this subchapter) are activities, including production, processing, consumption, exports and imports, involving chemicals further described in parts 712 through 715 of the CWCR. These do not include activities involving inorganic chemicals other than those listed in the Schedules of Chemicals, or other specifically exempted unscheduled discrete organic chemicals.

§ 710.3 Purposes of the Convention and CWCR.

(a) *Purposes of the Convention*. (1) The Convention imposes upon the United States, as a State Party, certain declaration, inspection, and other obligations. In addition, the United States

and other States Parties to the Convention undertake never under any circumstances to:

(i) Develop, produce, otherwise acquire, stockpile, or retain chemical weapons, or transfer, directly or indirectly, chemical weapons to anyone;

(ii) Use chemical weapons;

(iii) Engage in any military preparations to use chemical weapons; or

(iv) Assist, encourage or induce, in any way, anyone to engage in any activity prohibited by the Convention.

(2) One objective of the Convention is to assure States Parties that lawful activities of chemical producers and users are not converted to unlawful activities related to chemical weapons. To achieve this objective and to give States Parties a mechanism to verify compliance, the Convention requires the United States and all other States Parties to submit declarations concerning chemical production, consumption, processing and other activities, and to permit international inspections within their borders.

(b) *Purposes of the Chemical Weapons Convention Regulations*. To fulfill the United States' obligations under the Convention, the CWCR (parts 710 through 729 of this subchapter) prohibit certain activities, and compel the submission of information from all facilities in the United States, except for Department of Defense and Department of Energy facilities and facilities of other U.S. Government agencies that notify the USNA of their decision to be excluded from the CWCR on activities, including exports and imports of scheduled chemicals and certain information regarding unscheduled discrete organic chemicals as described in parts 712 through 715 of the CWCR. U.S. Government facilities are those owned by or leased to the U.S. Government, including facilities that are contractor-operated. The CWCR also require access for on-site inspections and monitoring by the OPCW, as described in parts 716 and 717 of the CWCR.

§ 710.4 Overview of scheduled chemicals and examples of affected industries.

The following provides examples of the types of industries that may be affected by the CWCR (parts 710 through 729 of this subchapter). These examples are not exhaustive, and you should refer to parts 712 through 715 of the CWCR to determine your obligations.

(a) Schedule 1 chemicals are listed in supplement no. 1 to part 712 of the CWCR. Schedule 1 chemicals have little or no use in industrial and agricultural industries, but may have limited use for research, pharmaceutical, medical, public health, or protective purposes.

(b) Schedule 2 chemicals are listed in supplement no. 1 to part 713 of the CWCR. Although Schedule 2 chemicals may be useful in the production of chemical weapons, they also have legitimate uses in areas such as:

(1) Flame retardant additives and research;

(2) Dye and photographic industries (e.g., printing ink, ball point pen fluids, copy mediums, paints, etc.);

(3) Medical and pharmaceutical preparation (e.g., anticholinergics, arsenicals, tranquilizer preparations);

(4) Metal plating preparations;

(5) Epoxy resins; and

(6) Insecticides, herbicides, fungicides, defoliants, and rodenticides.

(c) Schedule 3 chemicals are listed in supplement no. 1 to part 714 of the CWCR. Although Schedule 3 chemicals may be useful in the production of chemical weapons, they also have legitimate uses in areas such as:

(1) The production of:

(i) Resins;

(ii) Plastics;

(iii) Pharmaceuticals;

(iv) Pesticides;

(v) Batteries;

(vi) Cyanic acid;

(vii) Toiletries, including perfumes and scents;

(viii) Organic phosphate esters (e.g., hydraulic fluids, flame retardants, surfactants, and sequestering agents); and

(2) Leather tannery and finishing supplies.

(d) Unscheduled discrete organic chemicals are used in a wide variety of commercial industries, and include acetone, benzoyl peroxide and propylene glycol.

§ 710.5 Authority.

The CWCR (parts 710 through 729 of this subchapter) implement certain provisions of the Chemical Weapons Convention under the authority of the Chemical Weapons Convention Implementation Act of 1998 (Act), the National Emergencies Act, the International Emergency Economic Powers Act (IEEPA), as amended, and the Export Administration Act of 1979, as amended, by extending verification and trade restriction requirements under Article VI and related parts of the Verification Annex of the Convention to U.S. persons. In Executive Order 13128 of June 25, 1999, the President delegated authority to the Department of Commerce to promulgate regulations to implement the Act, and consistent with the Act, to carry out appropriate functions not otherwise assigned in the Act but necessary to implement certain reporting, monitoring and inspection requirements of the Convention and the Act.

§ 710.6 Relationship between the Chemical Weapons Convention Regulations and the Export Administration Regulations, the International Traffic in Arms Regulations, and the Alcohol, Tobacco, Firearms and Explosives Regulations.

Certain obligations of the U.S. Government under the CWC pertain to exports and imports. The obligations on exports are implemented in the Export Administration Regulations (EAR) (15 CFR parts 730 through 774) and the International Traffic in Arms Regulations (ITAR) (22 CFR parts 120 through 130). See in particular §§ 742.2 and 742.18 and part 745 of the EAR, and Export Control Classification Numbers 1C350, 1C351, 1C355 and 1C395 of the Commerce Control List (supplement no. 1 to part 774 of the EAR). The obligations on imports are implemented in the Chemical Weapons Convention Regulations (§§ 712.2 and 713.1) and the Alcohol, Tobacco, Firearms and Explosives Regulations in 27 CFR part 447.

[71 FR 24929, Apr. 27, 2006, as amended at 73 FR 78182, Dec. 22, 2008]

SUPPLEMENT NO. 1 TO PART 710—STATES PARTIES TO THE CONVENTION ON THE PROHIBITION OF THE DEVELOPMENT, PRODUCTION, STOCKPILING, AND USE OF CHEMICAL WEAPONS AND ON THEIR DESTRUCTION

LIST OF STATES PARTIES AS OF JUNE 1, 2016

Afghanistan
Albania
Algeria
Andorra
Angola
Antigua and Barbuda
Argentina
Armenia
Australia
Austria
Azerbaijan
Bahamas
Bahrain
Bangladesh
Barbados
Belarus
Belgium
Belize
Benin
Bhutan
Bolivia
Bosnia-Herzegovina
Botswana
Brazil
Brunei Darussalam*
Bulgaria
Burkina Faso
Burma
Burundi
Cambodia
Cameroon
Canada
Cape Verde
Central African Republic
Chad
Chile
China***
Colombia
Comoros
Congo, (Democratic Republic of the)
Congo (Republic of the)
Cook Islands**
Costa Rica
Cote d'Ivoire (Ivory Coast)
Croatia
Cuba
Cyprus
Czech Republic
Denmark
Djibouti
Dominica
Dominican Republic
Ecuador
El Salvador
Equatorial Guinea
Eritrea
Estonia
Ethiopia
Fiji
Finland
France
Gabon
Gambia
Georgia
Germany
Ghana
Greece
Grenada
Guatemala
Guinea
Guinea–Bissau
Guyana
Haiti
Holy See*
Honduras
Hungary
Iceland
India
Indonesia
Iran (Islamic Republic of)
Iraq
Ireland
Italy
Jamaica
Japan
Jordan
Kazakhstan
Kenya
Kiribati
Korea (Republic of)
Kuwait
Kyrgyzstan
Laos (P.D.R.)*
Latvia
Lebanon
Lesotho
Liberia
Libya
Liechtenstein
Lithuania
Luxembourg
Macedonia (The Former Yugoslav Republic of)
Madagascar
Malawi
Malaysia
Maldives
Mali

Malta
Marshall Islands
Mauritania
Mauritius
Mexico
Micronesia (Federated States of)
Moldova (Republic of)*
Monaco
Mongolia
Montenegro
Morocco
Mozambique
Namibia
Nauru
Nepal
Netherlands***
New Zealand
Nicaragua
Niger
Nigeria
Niue**
Norway
Oman
Pakistan
Palau
Panama
Papua New Guinea
Paraguay
Peru
Philippines
Poland
Portugal
Qatar
Romania
Russian Federation
Rwanda
Saint Kitts and Nevis
Saint Lucia
Saint Vincent and the Grenadines
Samoa
San Marino
Sao Tome and Principe
Saudi Arabia
Senegal
Serbia
Seychelles
Sierra Leone
Singapore
Slovak Republic*
Slovenia
Solomon Islands
Somalia
South Africa
Spain
Sri Lanka
Sudan
Suriname
Swaziland
Sweden
Switzerland
Syria
Tajikistan
Tanzania, United Republic of
Thailand
Timor Leste (East Timor)
Togo
Tonga
Trinidad and Tobago
Tunisia
Turkey
Turkmenistan
Tuvalu
Uganda
Ukraine
United Arab Emirates
United Kingdom
United States
Uruguay
Uzbekistan
Vanuatu
Venezuela
Vietnam
Yemen
Zambia
Zimbabwe

* For export control purposes, these destinations are identified using a different nomenclature under the Commerce Country Chart in supplement no. 1 to part 738 of the Export Administration Regulations (EAR) (15 CFR parts 730 through 774).

** For export control purposes, Cook Islands and Niue are not identified on the Commerce Country Chart in supplement no. 1 to part 738 of the EAR and are treated the same as New Zealand, in accordance with § 738.3(b) of the EAR.

*** For CWC States Parties purposes, a territory, possession, or department of any country that is listed in this Supplement as a State Party to the CWC, is treated the same as the country of which it is a territory, possession, or department (e.g., China includes Hong Kong and Macau; the Netherlands includes Aruba and the Netherlands Antilles).

[71 FR 24929, Apr. 27, 2006, as amended at 72 FR 14408, Mar. 28, 2007; 73 FR 78182, Dec. 22, 2008; 79 FR 16666, Mar. 26, 2014; 81 FR 36462, June 7, 2016]

SUPPLEMENT NO. 2 TO PART 710—DEFINITIONS OF PRODUCTION

Schedule 1 chemicals	Schedule 2 and Schedule 3 chemicals	Unscheduled discrete organic chemicals (UDOCs)
Produced by a biochemical or biologically mediated reaction		Produced by synthesis*
Formation through chemical synthesis. Processing to extract and isolate Schedule 1 chemicals.	All production steps in any units within the same plant which includes associated processes—purification, separation, extraction distillation or refining.**	

* Intermediates used in a single or multi-step process to produce another declared UDOC are not declarable.

** Intermediates are subject to declaration, except ''transient intermediates,'' which are those chemicals in a transition state in terms of thermodynamics and kinetics, that exist only for a very short period of time, and cannot be isolated, even by modifying or dismantling the plant, or by altering process operating conditions, or by stopping the process altogether are not subject to declaration.

PART 711—GENERAL INFORMATION REGARDING DECLARATION, REPORTING, AND ADVANCE NOTIFICATION REQUIREMENTS, AND THE ELECTRONIC FILING OF DECLARATIONS AND REPORTS

Sec.
711.1 Overviews of declaration, reporting, and advance notification requirements.
711.2 Who submits declarations, reports and advance notifications?
711.3 Compliance review.
711.4 Assistance in determining your obligations.
711.5 Numerical precision of submitted data.
711.6 Where to obtain forms.
711.7 Where to submit declarations, reports and advance notifications.
711.8 How to request authorization from BIS to make electronic submissions of declarations or reports.

AUTHORITY: 22 U.S.C. 6701 *et seq.;* E.O. 13128, 64 FR 36703, 3 CFR 1999 Comp., p. 199.

SOURCE: 71 FR 24929, Apr. 27, 2006, unless otherwise noted.

§711.1 Overviews of declaration, reporting, and advance notification requirements.

Parts 712 through 715 of the CWCR (parts 710 through 729 of this subchapter) describe the declaration, advance notification and reporting requirements for Schedule 1, 2 and 3 chemicals and for unscheduled discrete organic chemicals (UDOCs). For each type of chemical, the Convention requires annual declarations. If, after reviewing parts 712 through 715 of the CWCR, you determine that you have declaration, advance notification or reporting requirements, you may obtain the appropriate forms by contacting the Bureau of Industry and Security (BIS) (see §711.6 of the CWCR).

§711.2 Who submits declarations, reports, and advance notifications.

The owner, operator, or senior management official of a facility subject to declaration, reporting, or advance notification requirements under the CWCR (parts 710 through 729 of this subchapter) is responsible for the submission of all required documents in accordance with all applicable provisions of the CWCR.

§711.3 Compliance review.

Periodically, BIS will request information from persons and facilities subject to the CWCR to determine compliance with the reporting, declaration and notification requirements set forth herein. Information requested may relate to the production, processing, consumption, export, import, or other activities involving scheduled chemicals and unscheduled discrete organic chemicals described in parts 712 through 715 of the CWCR. Any person or facility subject to the CWCR and receiving such a request for information will be required to provide a response to BIS within 30 working days of receipt of the request. This requirement does not, in itself, impose a requirement to create new records or maintain existing records in a manner other than that directed by the recordkeeping provisions set forth in part 721 of the CWCR.

§711.4 Assistance in determining your obligations.

(a) *Determining if your chemical is subject to declaration, reporting or advance notification requirements.* (1) If you need assistance in determining if your chemical is classified as a Schedule 1, Schedule 2, or Schedule 3 chemical, or is an unscheduled discrete organic chemical, submit your written request for a chemical determination to BIS. Such requests must be sent via facsimile to (202) 482–1731, e-mailed to *cdr@bis.doc.gov*, or mailed to the Treaty Compliance Division, Bureau of Industry and Security, U.S. Department of Commerce, Room 4515, 14th Street and Pennsylvania Avenue, NW., Washington, DC 20230, and must be marked ''Attn: Chemical Determination.'' Your request should include the information noted in paragraph (a)(2) of this section to ensure an accurate determination. Also include any additional information that you feel is relevant to the chemical or process involved (see part 718 of the CWCR for provisions regarding treatment of confidential business information). If you are unable to provide all of the information required in paragraph (a)(2) of this section, you should include an explanation identifying the reasons or deficiencies that

preclude you from supplying the information. If BIS cannot make a determination based upon the information submitted, BIS will return the request to you and identify the additional information that is necessary to complete a chemical determination. BIS will provide a written response to your chemical determination request within 10 working days of receipt of the request.

(2) Include the following information in each chemical determination request:

(i) Date of request;

(ii) Company name and complete street address;

(iii) Point of contact;

(iv) Phone and facsimile number of contact;

(v) E-mail address of contact, if you want an acknowledgment of receipt sent via e-mail;

(vi) Chemical Name;

(vii) Structural formula of the chemical, if the chemical is not specifically identified by name and chemical abstract service registry number in Supplements No. 1 to parts 712 through 714 of the CWCR; and

(viii) Chemical Abstract Service registry number, if assigned.

(b) *Other inquiries*. If you need assistance in interpreting the provisions of the CWCR or need assistance with declaration, forms, reporting, advance notification, inspection or facility agreement issues, contact BIS's Treaty Compliance Division by phone at (202) 482–1001. If you require a response from BIS in writing, submit a detailed request to BIS that explains your question, issue, or request. Send the request to the address or facsimile included in paragraph (a) of this section, or e-mail the request to *cwcqa@bis.doc.gov*. Your request must be marked, ''ATTN: CWCR Assistance.''

[71 FR 24929, Apr. 27, 2006, as amended at 73 FR 78182, Dec. 22, 2008]

§ 711.5 Numerical precision of submitted data.

Numerical information submitted in declarations and reports is to be provided per applicable rounding rules in each part (*i.e.*, parts 712 through 715 of the CWCR) with a precision equal to that which can be reasonably provided using existing documentation, equipment, and measurement techniques.

§ 711.6 Where to obtain forms.

(a) Forms to complete declarations and reports required by the CWCR may be obtained by contacting: Treaty Compliance Division, Bureau of Industry and Security, U.S. Department of Commerce, Room 4515, 14th Street and Pennsylvania Avenue, NW., Washington, DC 20230, Telephone: (202) 482–1001. Forms and forms software may also be downloaded from the Internet at *www.cwc.gov*.

(b) If the amount of information you are required to submit is greater than the given form will allow, multiple copies of forms may be submitted.

[71 FR 24929, Apr. 27, 2006, as amended at 73 FR 78182, Dec. 22, 2008]

§ 711.7 Where to submit declarations, reports and advance notifications.

Declarations, reports and advance notifications required by the CWCR must be sent either by fax to (202) 482–1731 or by mail or courier delivery to the following address: Treaty Compliance Division, Bureau of Industry and Security, U.S. Department of Commerce, Room 4515, 14th Street and Pennsylvania Avenue, NW., Washington, DC 20230, Telephone: (202) 482–1001. Specific types of declarations and reports and due dates are outlined in supplement no. 2 to parts 712 through 715 of the CWCR.

[73 FR 78182, Dec. 22, 2008]

§ 711.8 How to request authorization from BIS to make electronic submissions of declarations or reports.

(a) *Scope*. This section provides an optional method of submitting declarations or reports. Specifically, this section applies to the electronic submission of declarations and reports required under the CWCR. If you choose to submit declarations and reports by electronic means, all such electronic submissions must be made through the Web-Data Entry System for Industry (Web-DESI), which can be accessed on the CWC web site at *www.cwc.gov*.

(b) *Authorization*. If you or your company has a facility, plant site, or trading company that has been assigned a U.S. Code Number (USC Number), you may submit declarations and reports electronically, once you have received authorization from BIS to do so. An authorization to submit declarations and reports electronically may be limited or withdrawn by BIS at any time. There are no prerequisites for obtaining permission to submit electronically, nor are there any limitations with regard to the types of declarations or reports that are eligible for electronic submission. However, BIS may direct, for any reason, that any electronic declaration or report be resubmitted in writing, either in whole or in part.

(1) *Requesting approval to submit declarations and reports electronically*. To submit declarations and reports electronically, you or your company must submit a written request to BIS at the address identified in §711.6 of the CWCR. Both the envelope and letter must be marked, ''ATTN: Electronic Declaration or Report Request.'' Your request should be on company letterhead and must contain your name or the company's name, your mailing address at the company, the name of the facility, plant site or trading company and its U.S. Code Number, the address of the facility, plant site or trading company (this address may be different from the mailing address), the list of persons who are authorized to view, edit, and/or submit declarations and reports on behalf of your company, and the telephone number and name and title of the owner, operator, or senior management official responsible for certifying that each person listed in the request is authorized to view, edit, and/or submit declarations and reports on behalf of you or your company (*i.e.*, the certifying official). Additional information required for submitting electronic declarations and reports may be found on BIS's Web site at *www.cwc.gov*. Once you have completed and submitted the necessary certifications, BIS will review your request for authorization to view, edit, and/or submit declarations and reports electronically. BIS will notify you if additional information is required and/or upon completion of its review.

NOTE TO §711.8(b)(1): You must submit a separate request for each facility, plant site or trading company owned by your company (e.g., each site that is assigned a unique U.S. Code Number).

(2) *Assignment and use of passwords for facilities, plant sites and trading companies (USC password) and Web-DESI user accounts (user name and password)*. (i) Each person, facility, plant site or trading company authorized to submit declarations and reports electronically will be assigned a password (USC password) that must be used in conjunction with the U.S.C. Number. Each person authorized by BIS to view, edit, and/or submit declarations and reports electronically for a facility, plant site or trading company will be assigned a Web-DESI user account (user name and password) telephonically by BIS. A Web-DESI user account will be assigned to you only if your company has certified to BIS that you are authorized to act for it in viewing, editing, and/or submitting electronic declarations and reports under the CWCR.

NOTE TO §711.8(b)(2)(i): When persons must have access to multiple Web-DESI accounts, their companies must identify such persons on the approval request for each of these Web-DESI accounts. BIS will coordinate with such persons to ensure that the assigned user name and password is the same for each account.

(ii) Your company may reveal the facility, plant site or trading company password (USC password) only to Web-DESI users with valid passwords, their supervisors, and employees or agents of the company with a commercial justification for knowing the password.

(iii) If you are an authorized Web-DESI account user, you may not:

(A) Disclose your user name or password to anyone;

(B) Record your user name or password, either in writing or electronically;

(C) Authorize another person to use your user name or password; or

(D) Use your user name or password following termination, either by BIS or by your company, of your authorization or approval for Web-DESI use.

(iv) To prevent misuse of the Web-DESI account:

(A) If Web-DESI user account information (i.e., user name and password) is lost, stolen or otherwise compromised, the company and the user must report the loss, theft or compromise of the user account information, immediately, by calling BIS at (202) 482–1001. Within two business days of making the report, the company and the user must submit written confirmation to BIS at the address provided in § 711.6 of the CWCR.

(B) Your company is responsible for immediately notifying BIS whenever a Web-DESI user leaves the employ of the company or otherwise ceases to be authorized by the company to submit declarations and reports electronically on its behalf.

(v) No person may use, copy, appropriate or otherwise compromise a Web-DESI account user name or password assigned to another person. No person, except a person authorized access by the company, may use or copy the facility, plant site or trading company password (USC password), nor may any person steal or otherwise compromise this password.

(c) *Electronic submission of declarations and reports*—(1) *General instructions.* Upon submission of the required certifications and approval of the company's request to use electronic submission, BIS will provide instructions on both the method for transmitting declarations and reports electronically and the process for submitting required supporting documents, if any. These instructions may be modified by BIS from time to time.

(2) *Declarations and reports.* The electronic submission of a declaration or report will constitute an official document as required under parts 712 through 715 of the CWCR. Such submissions must provide the same information as written declarations and reports and are subject to the recordkeeping provisions of part 720 of the CWCR. The company and Web-DESI user submitting the declaration or report will be deemed to have made all representations and certifications as if the submission were made in writing by the company and signed by the certifying official. Electronic submission of a declaration or report will be considered complete upon transmittal to BIS.

(d) *Updating.* A company approved for electronic submission of declarations or reports under Web-DESI must promptly notify BIS of any change in its name, ownership or address. If your company wishes to have a person added as a Web-DESI user, your company must inform BIS and follow the instructions provided by BIS. Your company should conduct periodic reviews to ensure that the company's designated certifying official and Web-DESI users are persons whose current responsibilities make it necessary and appropriate that they act for the company in either capacity.

[71 FR 24929, Apr. 27, 2006, as amended at 73 FR 78182, Dec. 22, 2008]

PART 712—ACTIVITIES INVOLVING SCHEDULE 1 CHEMICALS

Sec.

712.1 Round to zero rule that applies to activities involving Schedule 1 chemicals.
712.2 Restrictions on activities involving Schedule 1 chemicals.
712.3 Initial declaration requirements for declared facilities which are engaged in the production of Schedule 1 chemicals for purposes not prohibited by the CWC.
712.4 New Schedule 1 production facility.
712.5 Annual declaration requirements for facilities engaged in the production of Schedule 1 chemicals for purposes not prohibited by the CWC.
712.6 Advance notification and annual report of all exports and imports of Schedule 1 chemicals to, or from, other States Parties.
712.7 Amended declaration or report.
712.8 Declarations and reports returned without action by BIS.
712.9 Deadlines for submission of Schedule 1 declarations, reports, advance notifications, and amendments.

SUPPLEMENT NO. 1 TO PART 712—SCHEDULE 1 CHEMICALS

SUPPLEMENT NO. 2 TO PART 712—DEADLINES FOR SUBMISSION OF SCHEDULE 1 DECLARATIONS, REPORTS, ADVANCE NOTIFICATIONS, REPORTS, AND AMENDMENTS

AUTHORITY: 22 U.S.C. 6701 *et seq.;* 50 U.S.C. 1601 *et seq.;* 50 U.S.C. 1701 *et seq.;* E.O. 12938, 59 FR 59099, 3 CFR, 1994 Comp., p. 950, as amended by E.O. 13094, 63 FR 40803, 3 CFR, 1998 Comp., p. 200; E.O. 13128, 64 FR 36703, 3 CFR 1999 Comp., p. 199.

SOURCE: 71 FR 24929, Apr. 27, 2006, unless otherwise noted.

§ 712.1 Round to zero rule that applies to activities involving Schedule 1 chemicals.

Facilities that produce, export or import mixtures containing less than 0.5% aggregate quantities of Schedule 1 chemicals (see supplement no. 1 to this part) as unavoidable by-products or impurities may round to zero and are not subject to the provisions of this part 712. Schedule 1 content may be calculated by volume or weight, whichever yields the lesser percent. Note that such mixtures may be subject to the regulatory requirements of other federal agencies.

§ 712.2 Restrictions on activities involving Schedule 1 chemicals.

(a) You may not produce Schedule 1 chemicals for protective purposes.

(b) You may not import any Schedule 1 chemical unless:

(1) The import is from a State Party;

(2) The import is for research, medical, pharmaceutical, or protective purposes;

(3) The import is in types and quantities strictly limited to those that can be justified for such purposes; and

(4) You have notified BIS at least 45 calendar days prior to the import, pursuant to § 712.6 of the CWCR.

NOTE 1 TO § 712.2(b): Pursuant to § 712.6, advance notifications of import of saxitoxin of 5 milligrams or less for medical/diagnostic purposes must be submitted to BIS at least 3 days prior to import.

NOTE 2 TO § 712.2(b): For specific provisions relating to the prior advance notification of exports of all Schedule 1 chemicals, see § 745.1 of the Export Administration Regulations (EAR) (15 CFR parts 730 through 774). For specific provisions relating to license requirements for exports of Schedule 1 chemicals, see § 742.2 and § 742.18 of the EAR for Schedule 1 chemicals subject to the jurisdiction of the Department of Commerce and see the International Traffic in Arms Regulations (22 CFR parts 120 through 130) for Schedule 1 chemicals subject to the jurisdiction of the Department of State.

(c)(1) The provisions of paragraphs (a) and (b) of this section do not apply to the retention, ownership, possession, transfer, or receipt of a Schedule 1 chemical by a department, agency, or other entity of the United States, or by a person described in paragraph (c)(2) of this section, pending destruction of the Schedule 1 chemical;

(2) A person referred to in paragraph (c)(1) of this section is:

(i) Any person, including a member of the Armed Forces of the United States, who is authorized by law or by an appropriate officer of the United States to retain, own, possess transfer, or receive the Schedule 1 chemical; or

(ii) In an emergency situation, any otherwise non-culpable person if the person is attempting to seize or destroy the Schedule 1 chemical.

[71 FR 24929, Apr. 27, 2006, as amended at 73 FR 78183, Dec. 22, 2008]

§ 712.3 Initial declaration requirements for declared facilities which are engaged in the production of Schedule 1 chemicals for purposes not prohibited by the CWC.

Initial declarations submitted in February 2000 remain valid until amended or rescinded. If you plan to change/amend the technical description of your facility submitted with your initial declaration, you must submit an amended initial declaration to BIS 200 calendar days prior to implementing the change (see § 712.5(b)(1)(ii) of the CWCR).

§ 712.4 New Schedule 1 production facility.

(a) *Establishment of a new Schedule 1 production facility.* (1) If your facility has never before been declared under § 712.5 of the CWCR, or the initial declaration for your facility has been withdrawn pursuant to § 712.5(g) of the CWCR, and you intend to begin production of Schedule 1 chemicals at your facility in quantities greater than 100 grams aggregate per year for research, medical, or pharmaceutical purposes, you must provide an initial declaration (with a current detailed technical description of your facility) to BIS in no less than 200 calendar days in advance of commencing such production. Such facilities are considered to be ''new Schedule 1 production facilities'' and are subject to an initial inspection within 200 calendar days of submitting an initial declaration.

(2) New Schedule 1 production facilities that submit an initial declaration

pursuant to paragraph (a)(1) of this section are considered approved Schedule 1 production facilities for purposes of the CWC, unless otherwise notified by BIS within 30 days of receipt by BIS of that initial declaration.

(b) *Types of declaration forms required.* If your new Schedule 1 production facility will produce in excess of 100 grams aggregate of Schedule 1 chemicals, you must complete the Certification Form, Form 1–1 and Form A. You must also provide a detailed technical description of the new facility or its relevant parts, and a detailed diagram of the declared areas in the facility.

(c) Two hundred days after a new Schedule 1 production facility submits its initial declaration, it is subject to the declaration requirements in § 712.5(a)(1) and (a)(2) and § 712.5(b)(1)(ii) of the CWCR.

§ 712.5 Annual declaration requirements for facilities engaged in the production of Schedule 1 chemicals for purposes not prohibited by the CWC.

(a) *Declaration requirements*—(1) *Annual declaration on past activities.* You must complete the forms specified in paragraph (b)(2) of this section if you produced at your facility in excess of 100 grams aggregate of Schedule 1 chemicals in the previous calendar year. As a declared Schedule 1 facility, in addition to declaring the production of each Schedule 1 chemical that comprises your aggregate production of Schedule 1 chemicals, you must also declare any Schedule 1, Schedule 2, or Schedule 3 precursor used to produce the declared Schedule 1 chemical. You must further declare each Schedule 1 chemical used (consumed) and stored at your facility, and domestically transferred from your facility during the previous calendar year, whether or not you produced that Schedule 1 chemical at your facility.

(2) *Annual declaration on anticipated activities.* You must complete the forms specified in paragraph (b)(3) of this section if you anticipate that you will produce at your facility more than 100 grams aggregate of Schedule 1 chemicals in the next calendar year. If you are not already a declared facility, you must complete an initial declaration (see § 712.4 of the CWCR) 200 calendar days before commencing operations or increasing production which will result in production of more than 100 grams aggregate of Schedule 1 chemicals.

(b) *Declaration forms to be used*—(1) *Initial declaration.* (i) You must have completed the Certification Form, Form 1–1 and Form A if you produced at your facility in excess of 100 grams aggregate of Schedule 1 chemicals in calendar years 1997, 1998, or 1999. You must have provided a detailed current technical description of your facility or its relevant parts including a narrative statement, and a detailed diagram of the declared areas in the facility.

(ii) If you plan to change the technical description of your facility from your initial declaration completed and submitted pursuant to § 712.3 or § 712.4 of the CWCR, you must submit an amended initial declaration to BIS 200 calendar days prior to the change. Such amendments to your initial declaration must be made by completing a Certification Form, Form 1–1 and Form A, including the new description of the facility. See § 712.7 of the CWCR for additional instructions on amending Schedule 1 declarations.

(2) *Annual declaration on past activities.* If you are subject to the declaration requirement of paragraph (a)(1) of this section, you must complete the Certification Form and Forms 1–1, 1–2, 1–2A, 1–2B, and Form A if your facility was involved in the production of Schedule 1 chemicals in the previous calendar year. Form B is optional.

(3) *Annual declaration on anticipated activities.* If you anticipate that you will produce at your facility in excess of 100 grams aggregate of Schedule 1 chemicals in the next calendar year you must complete the Certification Form and Forms 1–1, 1–4, and Form A. Form B is optional.

(c) *Quantities to be declared.* If you produced in excess of 100 grams aggregate of Schedule 1 chemicals in the previous calendar year, you must declare the entire quantity of such production, rounded to the nearest gram. You must also declare the quantity of any Schedule 1, Schedule 2 or Schedule 3 precursor used to produce the declared Schedule 1 chemical, rounded to

the nearest gram. You must further declare the quantity of each Schedule 1 chemical consumed or stored by, or domestically transferred from, your facility, whether or not the Schedule 1 chemical was produced by your facility, rounded to the nearest gram. In calculating the amount of Schedule 1 chemical you produced, consumed or stored, count only the amount of the Schedule 1 chemical(s) in a mixture, not the total weight of the mixture (i.e., do not count the weight of the solution, solvent, or container).

(d) For the purpose of determining if a Schedule 1 chemical is subject to declaration, you must declare a Schedule 1 chemical that is an intermediate, but not a transient intermediate.

(e) *''Declared'' Schedule 1 facilities and routine inspections.* Only facilities that submitted a declaration pursuant to paragraph (a)(1) or (a)(2) of this section or §712.4 of the CWCR are considered ''declared'' Schedule 1 facilities. A ''declared'' Schedule 1 facility is subject to initial and routine inspection by the OPCW (see part 716 of the CWCR).

(f) *Approval of declared Schedule 1 production facilities.* Facilities that submit declarations pursuant to this section are considered approved Schedule 1 production facilities for purposes of the CWC, unless otherwise notified by BIS within 30 days of receipt by BIS of an annual declaration on past activities or annual declaration on anticipated activities (see paragraphs (a)(1) and (a)(2) of this section). If your facility does not produce more than 100 grams aggregate of Schedule 1 chemicals, no approval by BIS is required.

(g) *Withdrawal of Schedule 1 initial declarations.* A facility subject to §§712.3, 712.4 and 712.5 of the CWCR may withdraw its initial declaration at any time by notifying BIS in writing. A notification requesting the withdrawal of the initial declaration should be sent on company letterhead to the address in §711.6 of the CWCR. BIS will acknowledge receipt of the withdrawal of the initial declaration. Facilities withdrawing their initial declaration may not produce subsequently in excess of 100 grams aggregate of Schedule 1 chemicals within a calendar year unless pursuant to §712.4.

§712.6 Advance notification and annual report of all exports and imports of Schedule 1 chemicals to, or from, other States Parties.

Pursuant to the Convention, the United States is required to notify the OPCW not less than 30 days in advance of every export or import of a Schedule 1 chemical, in any quantity, to or from another State Party. In addition, the United States is required to provide a report of all exports and imports of Schedule 1 chemicals to or from other States Parties during each calendar year. If you plan to export or import any quantity of a Schedule 1 chemical from or to your declared facility, undeclared facility or trading company, you must notify BIS in advance of the export or import and complete an annual report of exports and imports that actually occurred during the previous calendar year. The United States will transmit to the OPCW the advance notifications and a detailed annual declaration of each actual export or import of a Schedule 1 chemical from/to the United States. Note that the advance notification and annual report requirements of this section do not relieve you of any requirement to obtain a license for export of Schedule 1 chemicals subject to the EAR or ITAR or a license for import of Schedule 1 chemicals from the Department of Justice under the Alcohol, Tobacco, Firearms and Explosives Regulations in 27 CFR part 447. Only ''declared'' facilities, as defined in §712.5(e) of the CWCR, are subject to initial and routine inspections pursuant to part 716 of the CWCR.

(a) *Advance notification of exports and imports.* You must notify BIS at least 45 calendar days prior to exporting or importing any quantity of a Schedule 1 chemical, except for exports or imports of 5 milligrams or less of Saxitoxin—B (7)—for medical/diagnostic purposes, listed in supplement no. 1 to this part to or from another State Party. Advance notification of export or import of 5 milligrams or less of Saxitoxin for medical/diagnostic purposes only, must be submitted to BIS at least 3 calendar days prior to export or import. Note that advance notifications for exports may be sent to BIS prior to or after submission of a license application to

BIS for Schedule 1 chemicals subject to the EAR and controlled under ECCN 1C351 or to the Department of State for Schedule 1 chemicals controlled under the ITAR. Such advance notifications must be submitted separately from license applications.

(1) Advance notifications should be on company letterhead or must clearly identify the reporting entity by name of company, complete address, name of contact person and telephone and facsimile numbers, along with the following information:

(i) Chemical name;

(ii) Structural formula of the chemical;

(iii) Chemical Abstract Service (CAS) Registry Number;

(iv) Quantity involved in grams;

(v) Planned date of export or import;

(vi) Purpose (end-use) of export or import (i.e., research, medical, pharmaceutical, or protective purposes);

(vii) Name(s) of exporter and importer;

(viii) Complete street address(es) of exporter and importer;

(ix) U.S. export license or control number, if known; and

(x) Company identification number, once assigned by BIS.

(2) Send the advance notification either by fax to (202) 482–1731 or by mail or courier delivery to the following address: Treaty Compliance Division, Bureau of Industry and Security, U.S. Department of Commerce, Room 4515, 14th Street and Pennsylvania Avenue, NW., Washington, DC 20230, and mark it ''Attn: Advance Notification of Schedule 1 Chemical [Export] [Import].''

(3) Upon receipt of the advance notification, BIS will inform the exporter or importer of the earliest date after which the shipment may occur under the advance notification procedure. To export a Schedule 1 chemical subject to an export license requirement either under the EAR or the ITAR, the exporter must have applied for and been granted a license (see § 742.2 and § 742.18 of the EAR, or the ITAR at 22 CFR parts 120 through 130).

(b) *Annual report requirements for exports and imports of Schedule 1 chemicals.* Any person subject to the CWCR that exported or imported any quantity of Schedule 1 chemical to or from another State Party during the previous calendar year has a reporting requirement under this section.

(1) *Annual report on exports and imports.* Declared and undeclared facilities, trading companies, and any other person subject to the CWCR that exported or imported any quantity of a Schedule 1 chemical to or from another State Party in a previous calendar year must submit an annual report on exports and imports.

(2) *Report forms to submit*—(i) *Declared Schedule 1 facilities.* (A) If your facility declared production of a Schedule 1 chemical and you also exported or imported any amount of that same Schedule 1 chemical, you must report the export or import by submitting either:

(*1*) *Combined declaration and report.* Submit, along with your declaration, Form 1–3 for that same Schedule 1 chemical to be reported. Attach Form A, as appropriate; Form B is optional; or

(2) *Report.* Submit, separately from your declaration, a Certification Form, Form 1–1, and a Form 1–3 for each Schedule 1 chemical to be reported. Attach Form A, as appropriate; Form B is optional.

(B) If your facility declared production of a Schedule 1 chemical and exported or imported any amount of a different Schedule 1 chemical, you must report the export or import by submitting either:

(*1*) *Combined declaration and report.* Submit, along with your declaration, a Form 1–3 for each Schedule 1 chemical to be reported. Attach Form A, as appropriate; Form B is optional; or

(*2*) *Report.* Submit, separately from your declaration, a Certification Form, Form 1–1, and a Form 1–3 for each Schedule 1 chemical to be reported. Attach Form A, as appropriate; Form B is optional.

(ii) If you are an undeclared facility, trading company, or any other person subject to the CWCR, and you exported or imported any amount of a Schedule 1 chemical, you must report the export or import by submitting a Certification Form, Form 1–1, and a Form 1–3 for each Schedule 1 chemical to be reported. Attach Form A, as appropriate; Form B is optional.

(c) Paragraph (a) of this section does not apply to the activities and persons set forth in § 712.2(b) of the CWCR.

[71 FR 24929, Apr. 27, 2006, as amended at 73 FR 78183, Dec. 22, 2008]

§ 712.7 Amended declaration or report.

In order for BIS to maintain accurate information on previously submitted facility declarations, including information necessary to facilitate inspection notifications and activities or to communicate declaration or report requirements, amended declarations or reports will be required under the following circumstances described in this section. This section applies only to annual declarations on past activities and annual reports on exports and imports submitted for the previous calendar year or annual declarations on anticipated activities covering the current calendar year, unless specified otherwise in a final inspection report.

(a) *Changes to information that directly affect inspection of a declared facility's Annual Declaration of Past Activities (ADPA) or Annual Declaration on Anticipated Activities (ADAA).* You must submit an amended declaration or report to BIS within 15 days of any change in the following information:

(1) Types of Schedule 1 chemicals produced (e.g., additional Schedule 1 chemicals);

(2) Quantities of Schedule 1 chemicals produced;

(3) Activities involving Schedule 1 chemicals; and

(4) End-use of Schedule 1 chemicals (e.g., additional end-use(s)).

(b) *Changes to export or import information submitted in Annual Reports on Exports and Imports from undeclared facilities, trading companies and U.S. persons.* You must submit an amended report or amended combined declaration and report for changes to export or import information within 15 days of any change in the following export or import information:

(1) Types of Schedule 1 chemicals exported or imported (e.g., additional Schedule 1 chemicals);

(2) Quantities of Schedule 1 chemicals exported or imported;

(3) Destination(s) of Schedule 1 chemicals exported;

(4) Source(s) of Schedule 1 chemicals imported;

(5) Activities involving exports and imports of Schedule 1 chemicals; and

(6) End-use(s) of Schedule 1 chemicals exported or imported (e.g., additional end-use(s)).

(c) *Changes to company and facility information previously submitted to BIS in the ADPA, the ADAA, and the Annual Report on Exports and Imports*—(1) *Internal company changes.* You must submit an amended declaration or report to BIS within 30 days of any change in the following information:

(i) Name of declaration/report point of contact (D–POC), including telephone number, facsimile number, and e-mail address;

(ii) Name(s) of inspection point(s) of contact (I–POC), including telephone number(s), and facsimile number(s);

(iii) Company name (see § 712.7(c)(2) of the CWCR for other company changes);

(iv) Company mailing address;

(v) Facility name;

(vi) Facility owner, including telephone number, and facsimile number; and

(vii) Facility operator, including telephone number, and facsimile number.

(2) *Change in ownership of company or facility.* If you sold or purchased a declared facility or trading company, you must submit an amended declaration or report to BIS, either before the effective date of the change or within 30 days after the effective date of the change. The amended declaration or report must include the following information:

(i) Information that must be submitted to BIS by the company selling a declared facility:

(A) Name of seller (*i.e.*, name of the company selling a declared facility);

(B) Name of the declared facility and U.S. Code Number for that facility;

(C) Name of purchaser (*i.e.*, name of the new company purchasing a declared facility) and identity of contact person for the purchaser, if known;

(D) Date of ownership transfer or change;

(E) Additional details on sale of the declared facility relevant to ownership or operational control over any portion

of that facility (e.g., whether the entire facility or only a portion of the declared facility has been sold to a new owner); and

(F) Details regarding whether the new owner will submit the next declaration or report for the entire calendar year during which the ownership change occurred, or whether the previous owner and new owner will submit separate declarations or reports for the periods of the calendar year during which each owned the facility or trading company.

(*1*) If the new owner is responsible for submitting the declaration or report for the entire current year, it must have in its possession the records for the period of the year during which the previous owner owned the facility.

(*2*) If the previous owner and new owner will submit separate declarations for the periods of the calendar year during which each owned the facility (''part-year declarations''), and if, at the time of transfer of ownership, the previous owner's activities are not above the declaration thresholds set forth in §§ 712.4 and 712.5 of the CWCR, the previous owner and the new owner must still submit declarations to BIS with the below threshold quantities indicated.

(*3*) If the part-year declarations submitted by the previous owner and the new owner are not, when combined, above the declaration threshold set forth in §§ 712.4 and 712.5 of the CWCR, BIS will return the declarations without action as set forth in § 712.8 of the CWCR.

(*4*) If part-year reports are submitted by the previous owner and the new owner as required in § 712.5 of the CWCR, BIS will submit both reports in the OPCW.

(ii) Information that must be submitted to BIS by the company purchasing a declared facility:

(A) Name of purchaser (*i.e.*, name of company purchasing a declared facility;

(B) Mailing address of purchaser;

(C) Name of declaration point of contact (D–POC) for the purchaser, including telephone number, facsimile number, and e-mail address;

(D) Name of inspection points of contact (I–POC) for the purchaser, including telephone number(s), facsimile number(s) and e-mail address(es);

(E) Name of the declared facility and U.S. Code Number for that facility;

(F) Location of the declared facility;

(G) Owner and operator of the declared facility, including telephone number, and facsimile number; and

(H) Details on the next declaration or report submission on whether the new owner will submit the declaration or report for the entire calendar year during which the ownership change occurred, or whether the previous owner and new owner will submit separate declarations or reports for the periods of the calendar year during which each owned the facility or trading company.

(*1*) If the new owner is taking responsibility for submitting the declaration or report for the entire current year, it must have in its possession the records for the period of the year during which the previous owner owned the facility.

(*2*) If the previous owner and new owner will submit separate declarations for the periods of the calendar year during which each owned the facility, and, at the time of transfer of ownership, the previous owner's activities are not above the declaration thresholds set forth in §§ 712.4 and 712.5 of the CWCR, the previous owner and the new owner must still submit declarations to BIS with the below threshold quantities indicated.

(*3*) If the part-year declarations submitted by the previous owner and the new owner are not, when combined, above the declaration threshold set forth in §§ 712.4 and 712.5 of the CWCR, BIS will return the declarations without action as set forth in § 712.8 of the CWCR.

(*4*) If part-year reports are submitted by the previous owner and the new owner as required in § 712.5 of the CWCR, BIS will submit both reports to the OPCW.

NOTE 1 TO § 712.7(c): You must submit an amendment to your most recently submitted declaration or report for declaring changes to internal company information (e.g., company name change) or changes in ownership of a facility or trading company that have occurred since the submission of this declaration or report. BIS will process the amendment to ensure current information is on file regarding the facility or trading company (e.g., for inspection notifications and

correspondence) and will also forward the amended declaration to the OPCW to ensure that they also have current information on file regarding your facility or trading company.

NOTE 2 TO § 712.7(c): You may notify BIS of change in ownership via a letter to the address given in § 711.6 of the CWCR. If you are submitting an amended declaration or report, use Form B to address details regarding the sale of the declared facility or trading company.

NOTE 3 TO § 712.7(c): For ownership changes, the declared facility or trading company will maintain its original U.S. Code Number, unless the facility or trading company is sold to multiple owners, at which time BIS will assign new U.S. Code Numbers for the new facilities.

(d) *Inspection-related amendments*. If, following completion of an inspection (see parts 716 and 717 of the CWCR), you are required to submit an amended declaration based on the final inspection report, BIS will notify you in writing of the information that will be required pursuant to §§ 716.10 and 717.5 of the CWCR. You must submit an amended declaration to BIS no later than 45 days following your receipt of the BIS post-inspection letter.

(e) *Non-substantive changes*. If, subsequent to the submission of your declaration or report to BIS, you discover one or more non-substantive typographical errors in your declaration or report, you are not required to submit an amended declaration or report to BIS. Instead, you may correct these errors in a subsequent declaration or report.

(f) *Documentation required for amended declarations or reports*. If you are required to submit an amended declaration or report to BIS pursuant to paragraph (a), (b), (c), or (d) of this section, you must submit either:

(1) A letter containing all of the corrected information required, in accordance with the provisions of this section, to amend your declaration or report; or

(2) Both of the following:

(i) A new Certification Form (*i.e.*, Form 1–1); and

(ii) The specific forms (e.g., annual declaration on past activities) containing the corrected information required, in accordance with the provisions of this part 712, to amend your declaration or report.

§ 712.8 Declarations and reports returned without action by BIS.

If you submit a declaration or report and BIS determines that the information contained therein is not required by the CWCR, BIS will return the original declaration or report to you, without action, accompanied by a letter explaining BIS's decision. In order to protect your confidential business information, BIS will not maintain a copy of any declaration or report that is returned without action (RWA). However, BIS will maintain a copy of the RWA letter.

§ 712.9 Deadlines for submission of Schedule 1 declarations, reports, advance notifications, and amendments.

Declarations, reports, advance notifications, and amendments required under this part must be postmarked by the appropriate date identified in supplement no. 2 to this part 712. Required declarations, reports, advance notifications, and amendments include:

(a) Annual declaration on past activities (Schedule 1 chemical production during the previous calendar year);

(b) Annual report on exports and imports of Schedule 1 chemicals from facilities, trading companies, and other persons (during the previous calendar year);

(c) Combined declaration and report (production of Schedule 1 chemicals, as well as exports or imports of the same or different Schedule 1 chemicals, by a declared facility during the previous calendar year);

(d) Annual declaration on anticipated activities (anticipated production of Schedule 1 chemicals in the next calendar year);

(e) Advance notification of any export to or import from another State Party;

(f) Initial declaration of a new Schedule 1 chemical production facility; and

(g) Amended declaration or report, including combined declaration and report.

SUPPLEMENT NO. 1 TO PART 712—SCHEDULE 1 CHEMICALS

	(CAS registry number)
A. Toxic chemicals:	
(1) O-Alkyl ($\leq C_{10}$, incl. cycloalkyl) alkyl (Me, Et, n-Pr or i-Pr)-phosphonofluoridates	
e.g. Sarin: O-Isopropyl methylphosphonofluoridate	(107–44–8)
Soman: O-Pinacolyl methylphosphonofluoridate	(96–64–0)
(2) O-Alkyl ($\leq C_{10}$, incl. cycloalkyl) N,N-dialkyl (Me, Et, n-Pr or i-Pr) phosphoramidocyanidates e.g. Tabun: O-Ethyl N,N-dimethyl phosphoramidocyanidate	(77–81–6)
(3) O-Alkyl (H or $\leq C_{10}$, incl. cycloalkyl) S–2-dialkyl (Me, Et, n-Pr or i-Pr)-aminoethyl alkyl (Me, Et, n-Pr or i-Pr) phosphonothiolates and corresponding alkylated or protonated salts e.g. VX: O-Ethyl S–2-diisopropylaminoethyl methyl phosphonothiolate	(50782–69–9)
(4) Sulfur mustards:	
2-Chloroethylchloromethylsulfide	(2625–76–5)
Mustard gas: Bis(2-chloroethyl)sulfide	(505–60–2)
Bis(2-chloroethylthio)methane	(63869–13–6)
Sesquimustard: 1,2-Bis(2-chloroethylthio)ethane	(3563–36–8)
1,3-Bis(2-chloroethylthio)-n-propane	(63905–10–2)
1,4-Bis(2-chloroethylthio)-n-butane	(142868–93–7)
1,5-Bis(2-chloroethylthio)-n-pentane	(142868–94–8)
Bis(2-chloroethylthiomethyl)ether	(63918–90–1)
O-Mustard: Bis(2-chloroethylthioethyl)ether	(63918–89–8)
(5) Lewisites:	
Lewisite 1: 2-Chlorovinyldichloroarsine	(541–25–3)
Lewisite 2: Bis(2-chlorovinyl)chloroarsine	(40334–69–8)
Lewisite 3: Tris(2-chlorovinyl)arsine	(40334–70–1)
(6) Nitrogen mustards:	
HN1: Bis(2-chloroethyl)ethylamine	(538–07–8)
HN2: Bis(2-chloroethyl)methylamine	(51–75–2)
HN3: Tris(2-chloroethyl)amine	(555–77–1)
(7) Saxitoxin	(35523–89–8)
(8) Ricin	(9009–86–3)
B. Precursors:	
(9) Alkyl (Me, Et, n-Pr or i-Pr) phosphonyldifluorides e.g. DF: Methylphosphonyldifluoride	(676–99–3)
(10) O-Alkyl (H or $\leq C_{10}$, incl. cycloalkyl) O–2-dialkyl (Me, Et, n-Pr or i-Pr)-aminoethyl alkyl (Me, Et, N-Pr or i-Pr) phosphonites and corresponding alkylated or protonated salts e.g. QL: O-Ethyl O–2-diisopropylaminoethyl methylphosphonite	(57856–11–8)
(11) Chlorosarin: O-Isopropyl methylphosphonochloridate	(1445–76–7)
(12) Chlorosoman: O-Pinacolyl methylphosphonochloridate	(7040–57–5)

Notes to Supplement No. 1

Note 1: Note that the following Schedule 1 chemicals are controlled for export purposes under the Export Administration Regulations (see part 774 of the EAR, the Commerce Control List): Saxitoxin (35523–89–8) and Ricin (9009–86–3).

Note 2: All Schedule 1 chemicals not listed in Note 1 to this Supplement are controlled for export purposes by the Directorate of Defense Trade Controls of the Department of State under the International Traffic in Arms Regulations (22 CFR parts 120 through 130).

SUPPLEMENT NO. 2 TO PART 712—DEADLINES FOR SUBMISSION OF SCHEDULE 1 DECLARATIONS, ADVANCE NOTIFICATIONS, REPORTS, AND AMENDMENTS

Declarations, advance notifications and reports	Applicable forms	Due dates
Annual Declaration on Past Activities (previous calendar year)—Declared facility (past production).	Certification, 1–1, 1–2,1–2A,1–2B, A (as appropriate), B (optional).	February 28th of the year following any calendar year in which more than 100 grams aggregate of Schedule 1 chemicals were produced,
Annual report on exports and imports (previous calendar year) (facility, trading company, other persons).	Certification, 1–1,1–3, A (as appropriate), B (optional).	February 28th of the year following any calendar year in which Schedule 1 chemicals were exported or imported.
Combined Declaration and Report	Certification, 1–1, 1–2, 1–2A, 1–2B, 1–3, A (as appropriate), B (optional).	February 28th of the year following any calendar year in which Schedule 1 chemicals were produced, exported, or imported.
Annual Declaration of Anticipated Activities (next calendar year).	Certification, 1–1, 1–4, A (as appropriate), B (optional).	September 3rd of the year prior to any calendar year in which Schedule 1 activities are anticipated to occur.
Advance Notification of any export to or import from another State Party.	Notify on letterhead. See §712.6 of the CWCR.	45 calendar days prior to any export or import of Schedule 1 chemicals, except 3 days prior to export or import of 5 milligrams or less of saxitoxin for medical/diagnositc purposes.
Initial Declaration of a new Schedule 1 facility (technical description).	Certification, 1–1, A (as appropriate), B (optional).	200 calendar days prior to producing in excess of 100 grams aggregate of Schedule 1 chemicals.

Declarations, advance notifications and reports	Applicable forms	Due dates
Amended Declaration	Certification, 1–1, 1–2, 1–2A.	
—Chemicals/Activities: §712.7(a).		—15 calendar days after change in information.
—Company information: §712.7(c).		—30 calendar days after change in information.
—Post-inspection letter: §712.7(d).		—45 calendar days after receipt of letter.
Amended Report §712.7(b)	Certification, 1–1, 1–3, A (as appropriate), B (optional).	—15 calendar days after change in information.
Amended Combined Declaration & Report.	Certification, 1–1, 1–2, 1–2A, 1–3, A (as appropriate), B (optional).	—15 calendar days after change in information.

PART 713—ACTIVITIES INVOLVING SCHEDULE 2 CHEMICALS

Sec.
713.1 Prohibition on exports and imports of Schedule 2 chemicals to and from States not Party to the CWC.
713.2 Annual declaration requirements for plant sites that produce, process or consume Schedule 2 chemicals in excess of specified thresholds.
713.3 Annual declaration and reporting requirements for exports and imports of Schedule 2 chemicals.
713.4 Advance declaration requirements for additionally planned production, processing or consumption of Schedule 2 chemicals.
713.5 Amended declaration or report.
713.6 Declarations and reports returned without action by BIS.
713.7 Deadlines for submission of Schedule 2 declarations, reports, and amendments.
SUPPLEMENT NO. 1 TO PART 713—SCHEDULE 2 CHEMICALS
SUPPLEMENT NO. 2 TO PART 713—DEADLINES FOR SUBMISSION OF SCHEDULE 2 DECLARATIONS, REPORTS, AND AMENDMENTS

AUTHORITY: 22 U.S.C. 6701 *et seq.*; 50 U.S.C. 1601 *et seq.*; 50 U.S.C. 1701 *et seq.*; E.O. 12938 59 FR 59099, 3 CFR, 1994 Comp., p. 950, as amended by E.O. 13094, 63 FR 40803, 3 CFR, 1998 Comp., p. 200; E.O. 13128, 64 FR 36703, 3 CFR 1999 Comp., p. 199.

SOURCE: 71 FR 24929, Apr. 27, 2006, unless otherwise noted.

§713.1 Prohibition on exports and imports of Schedule 2 chemicals to and from States not Party to the CWC.

(a) You may not export any Schedule 2 chemical (see supplement no. 1 to this part) to any destination or import any Schedule 2 chemical from any destination other than a State Party to the Convention. See supplement no. 1 to part 710 of the CWCR for a list of States that are party to the Convention.

NOTE TO §713.1(a): See §742.18 of the Export Administration Regulations (EAR) (15 CFR part 742) for prohibitions that apply to exports of Schedule 2 chemicals to States not Party to the CWC.

(b) Paragraph (a) of this section does not apply to:

(1) The export or import of a Schedule 2 chemical to or from a State not Party to the CWC by a department, agency, or other entity of the United States, or by any person, including a member of the Armed Forces of the United States, who is authorized by law, or by an appropriate officer of the United States to transfer or receive the Schedule 2 chemical;

(2) Mixtures containing Schedule 2A chemicals, if the concentration of each Schedule 2A chemical in the mixture is 1% or less by weight (note, however, that such mixtures may be subject to the regulatory requirements of other federal agencies);

(3) Mixtures containing Schedule 2B chemicals if the concentration of each Schedule 2B chemical in the mixture is 10% or less by weight (note, however, that such mixtures may be subject to the regulatory requirements of other federal agencies); or

(4) Products identified as consumer goods packaged for retail sale for personal use or packaged for individual use.

§713.2 Annual declaration requirements for plant sites that produce, process or consume Schedule 2 chemicals in excess of specified thresholds.

(a) *Declaration of production, processing or consumption of Schedule 2 chemicals for purposes not prohibited by*

the CWC—(1) *Quantities of production, processing or consumption that trigger declaration requirements.* You must complete the forms specified in paragraph (b) of this section if you have been or will be involved in the following activities:

(i) *Annual declaration on past activities.* (A) You produced, processed or consumed at one or more plants on your plant site during any of the previous three calendar years, a Schedule 2 chemical in excess of any of the following declaration threshold quantities:

(*1*) 1 kilogram of chemical BZ: 3-Quinuclidinyl benzilate (see Schedule 2, paragraph A.3 in supplement no. 1 to this part);

(*2*) 100 kilograms of chemical PFIB: 1,1,3,3,3-Pentafluoro-2(trifluoromethyl)-1-propene or 100 kilograms of chemical Amiton: 0,0-Diethyl S-[2-(diethylamino) ethyl] phosphorothiolate and corresponding alkylated or protonated salts (see Schedule 2, paragraphs A.1 and A.2 in supplement no. 1 to this part); or

(*3*) 1 metric ton of any chemical listed in Schedule 2, Part B (see supplement no. 1 to this part).

(B) In order to trigger a declaration requirement for a past activity (i.e., production, processing or consumption) involving a Schedule 2 chemical, a plant on your plant site must have exceeded the applicable declaration threshold for that particular activity during one or more of the previous three calendar years. For example, if a plant on your plant site produced 800 kilograms of thiodiglycol and consumed 300 kilograms of the same Schedule 2 chemical, during the previous calendar year, you would not have a declaration requirement based on these activities, because neither activity at your plant would have exceeded the declaration threshold of 1 metric ton for that Schedule 2 chemical. However, a declaration requirement would apply if an activity involving a Schedule 2 chemical at the plant exceeded the declaration threshold in an earlier year (i.e., during the course of any other calendar year within the past three calendar years), as indicated in the example provided in the note to this paragraph.

NOTE TO §713.2(a)(1)(i)(B): To determine whether or not you have an annual declaration on past activities requirement for Schedule 2 chemicals, you must determine whether you produced, processed or consumed a Schedule 2 chemical above the applicable threshold at one or more plants on your plant site in any one of the three previous calendar years. For example, for the 2004 annual declaration on past activities period, if you determine that one plant on your plant site produced greater than 1 kilogram of the chemical BZ in calendar year 2002, and no plants on your plant site produced, processed or consumed any Schedule 2 chemical above the applicable threshold in calendar years 2003 or 2004, you still have a declaration requirement under this paragraph for the previous calendar year (2004). However, you must only declare on Form 2–3 (question 2–3.1), production data for calendar year 2004. You would declare ''0'' production because you did not produce BZ above the applicable threshold in calendar year 2004. Since the plant site did not engage in any other declarable activity (i.e., consumption, processing) in the 2002–2004 declaration period, you would leave blank questions 2–3.2 and 2–3.3 on Form 2–3. Note that declaring a ''0'' production quantity for 2004, as opposed to leaving the question blank, permits BIS to distinguish the activity that triggered the declaration requirement from activities that were not declarable during that period.

(ii) *Annual declaration on anticipated activities.* You anticipate that you will produce, process or consume at one or more plants on your plant site during the next calendar year, a Schedule 2 chemical in excess of the applicable declaration threshold set forth in paragraphs (a)(1)(i)(A)(*1*) through (*3*) of this section.

NOTE TO §713.2(a)(1)(ii): A null ''0'' declaration is not required if you do not plan to produce, process or consume a Schedule 2 chemical in the next calendar year.

(2) *Schedule 2 chemical production.* (i) For the purpose of determining Schedule 2 production, you must include all steps in the production of a chemical in any units within the same plant through chemical reaction, including any associated processes (e.g., purification, separation, extraction, distillation, or refining) in which the chemical is not converted into another chemical. The exact nature of any associated process (e.g., purification, etc.) is not required to be declared.

(ii) For the purpose of determining if a Schedule 2 chemical is subject to declaration, you must declare an intermediate Schedule 2 chemical, but not a transient intermediate Schedule 2 chemical.

(3) *Mixtures containing a Schedule 2 chemical*—(i) *Mixtures that must be counted*. You must count the quantity of each Schedule 2 chemical in a mixture, when determining the total quantity of a Schedule 2 chemical produced, processed, or consumed at a plant on your plant site, if the concentration of each Schedule 2 chemical in the mixture is 30% or more by volume or by weight, whichever yields the lesser percent. Do not count a Schedule 2 chemical in the mixture that represents less than 30% by volume or by weight.

(ii) *How to count the quantity of each Schedule 2 chemical in a mixture*. If your mixture contains 30% or more concentration of a Schedule 2 chemical, you must count the quantity (weight) of each Schedule 2 chemical in the mixture, not the total weight of the mixture. You must separately declare each Schedule 2 chemical with a concentration in the mixture that is 30% or more and exceeds the quantity threshold detailed in paragraphs (a)(1)(i)(A)(*1*) through (*3*) of this section.

(iii) *Determining declaration requirements for production, processing and consumption*. If the total quantity of a Schedule 2 chemical produced, processed or consumed at a plant on your plant site, including mixtures that contain 30% or more concentration of a Schedule 2 chemical, exceeds the applicable declaration threshold set forth in paragraphs (a)(1)(i)(A)(*1*) through (*3*) of this section, you have a declaration requirement. For example, if during calendar year 2001, a plant on your plant site produced a mixture containing 300 kilograms of thiodiglycol in a concentration of 32% and also produced 800 kilograms of thiodiglycol, the total amount of thiodiglycol produced at that plant for CWCR purposes would be 1100 kilograms, which exceeds the declaration threshold of 1 metric ton for that Schedule 2 chemical. You must declare past production of thiodiglycol at that plant site for calendar year 2001. If, on the other hand, a plant on your plant site processed a mixture containing 300 kilograms of thiodiglycol in a concentration of 25% and also processed 800 kilograms of thiodiglycol in other than mixture form, the total amount of thiodiglycol processed at that plant for CWCR purposes would be 800 kilograms and would not trigger a declaration requirement. This is because the concentration of thiodiglycol in the mixture is less than 30% and therefore did not have to be ''counted'' and added to the other 800 kilograms of processed thiodiglycol at that plant.

(b) *Types of declaration forms to be used*—(1) *Annual declaration on past activities*. You must complete the Certification Form and Forms 2–1, 2–2, 2–3, 2–3A, and Form A if one or more plants on your plant site produced, processed or consumed more than the applicable threshold quantity of a Schedule 2 chemical described in paragraphs (a)(1)(i)(A)(*1*) through (*3*) of this section in any of the three previous calendar years. Form B is optional. If you are subject to annual declaration requirements, you must include data for the previous calendar year only.

(2) *Annual declaration on anticipated activities*. You must complete the Certification Form and Forms 2–1, 2–2, 2–3, 2–3A, 2–3C, and Form A if you plan to produce, process, or consume at any plant on your plant site a Schedule 2 chemical above the applicable threshold set forth in paragraphs (a)(1)(i)(A)(*1*) through (*3*) of this section during the following calendar year. Form B is optional.

(c) *Quantities to be declared*—(1) *Production, processing and consumption of a Schedule 2 chemical above the declaration threshold*—(i) *Annual declaration on past activities*. If you are required to complete forms pursuant to paragraph (a)(1)(i) of this section, you must declare the aggregate quantity resulting from each type of activity (production, processing or consumption) from each plant on your plant site that exceeds the applicable threshold for that Schedule 2 chemical. Do not include in these aggregate production, processing, and consumption quantities any data from plants on the plant site that did not individually produce, process or consume a Schedule 2 chemical in amounts greater than the applicable threshold. For example, if a plant on

your plant site produced a Schedule 2 chemical in an amount greater than the applicable declaration threshold during the previous calendar year, you would have to declare only the production quantity from that plant, provided that the total amount of the Schedule 2 chemical processed or consumed at the plant did not exceed the applicable declaration threshold during any one of the previous three calendar years. If in the previous calendar year your production, processing and consumption activities all were below the applicable declaration threshold, but your declaration requirement is triggered because of production activities occurring in an earlier year, you would declare ''0'' only for the declared production activities.

(ii) *Annual declaration on anticipated activities.* If you are required to complete forms pursuant to paragraph (a)(1)(ii) of this section, you must declare the aggregate quantity of any Schedule 2 chemical that you plan to produce, process or consume at any plant(s) on your plant site above the applicable thresholds set forth in paragraphs (a)(1)(i)(A)(*1*) through (*3*) of this section during the next calendar year. Do not include in these anticipated aggregate production, processing, and consumption quantities any data from plants on the plant site that you do not anticipate will individually produce, process or consume a Schedule 2 chemical in amounts greater than the applicable thresholds.

(2) *Rounding.* For the chemical BZ, report quantities to the nearest hundredth of a kilogram (10 grams). For PFIB and the Amiton family, report quantities to the nearest 1 kilogram. For all other Schedule 2 chemicals, report quantities to the nearest 10 kilograms.

(d) *''Declared'' Schedule 2 plant site.* A plant site that submitted a declaration pursuant to paragraph (a)(1) of this section is a ''declared'' plant site.

(e) *Declared Schedule 2 plant sites subject to initial and routine inspections.* A ''declared'' Schedule 2 plant site is subject to initial and routine inspection by the Organization for the Prohibition of Chemical Weapons if it produced, processed or consumed in any of the three previous calendar years, or is anticipated to produce, process or consume in the next calendar year, in excess of ten times the applicable declaration threshold set forth in paragraphs (a)(1)(i)(A)(*1*) through (*3*) of this section (see part 716 of the CWCR). A ''declared'' Schedule 2 plant site that has received an initial inspection is subject to routine inspection.

§ 713.3 Annual declaration and reporting requirements for exports and imports of Schedule 2 chemicals.

(a) *Declarations and reports of exports and imports of Schedule 2 chemicals*—(1) *Declarations.* A Schedule 2 plant site that is declared because it produced, processed or consumed a Schedule 2 chemical at one or more plants above the applicable threshold set forth in paragraph (b) of this section, and also exported from or imported to the plant site that same Schedule 2 chemical above the applicable threshold, must submit export and import information as part of its declaration.

(2) *Reports.* The following persons must submit a report if they individually exported or imported a Schedule 2 chemical above the applicable threshold indicated in paragraph (b) of this section:

(i) A declared plant site that exported or imported a Schedule 2 chemical that was different than the Schedule 2 chemical produced, processed or consumed at one or more plants at the plant site above the applicable declaration threshold;

(ii) An undeclared plant site;

(iii) A trading company; or

(iv) Any other person subject to the CWCR.

NOTE TO §713.3(a)(1) AND (a)(2)(i): A declared Schedule 2 plant site may need to declare exports or imports of Schedule 2 chemicals that it produced, processed or consumed above the applicable threshold and also report exports or imports of different Schedule 2 chemicals that it did not produce, process or consume above the applicable threshold quantities. The report may be submitted to BIS either with or separately from the annual declaration on past activities (see §713.3(d) of the CWCR).

NOTE TO §713.3(a)(2): The U.S. Government will not submit to the OPCW company-specific information relating to the export or import of Schedule 2 chemicals contained in reports. The U.S. Government will add all export and import information contained in

reports to export and import information contained in declarations to establish the U.S. national aggregate declaration on exports and imports.

NOTE TO § 713.3(a)(1) AND (2): Declared and undeclared plant sites must count, for declaration or reporting purposes, all exports from and imports to the *entire* plant site, not only from or to individual plants on the plant site.

(b) *Quantities of exports or imports that trigger a declaration or reporting requirement.* (1) You have a declaration or reporting requirement and must complete the forms specified in paragraph (d) of this section if you exported or imported a Schedule 2 chemical in excess of the following threshold quantities:

(i) 1 kilogram of chemical BZ: 3-Quinuclidinyl benzilate (See Schedule 2, paragraph A.3 included in supplement no. 1 to this part);

(ii) 100 kilograms of chemical PFIB: 1,1,3,3,3-Pentafluoro-2(trifluoromethyl)-1-propene or 100 kilograms of Amiton: O,O Diethyl S-[2(diethylamino)ethyl] phosphorothiolate *and* corresponding alkylated or protonated salts (see Schedule 2, paragraphs A.1 and A.2 included in supplement no.1 to this part); or

(iii) 1 metric ton of any chemical listed in Schedule 2, Part B (see supplement no.1 to this part).

(2) *Mixtures containing a Schedule 2 chemical.* The quantity of each Schedule 2 chemical contained in a mixture must be counted for the declaration or reporting of an export or import only if the concentration of each Schedule 2 chemical in the mixture is 30% or more by volume or by weight, whichever yields the lesser percent. You must declare separately each Schedule 2 chemical whose concentration in the mixture is 30% or more.

NOTE 1 TO § 713.3(b)(2): See § 713.2(a)(2)(ii) of the CWCR for information on counting amounts of Schedule 2 chemicals contained in mixtures and determining declaration and reporting requirements.

NOTE 2 TO § 713.3(b)(2): The ''30% and above'' mixtures rule applies only for declaration and reporting purposes. This rule does not apply for purposes of determining whether the export of your mixture to a non-State Party requires an End-Use Certificate or for determining whether you need an export license from BIS (see § 742.2, § 742.18 and § 745.2 of the Export Administration Regulations) or from the Department of State (see the International Traffic in Arms Regulations (22 CFR parts 120 through130)).

(c) *Declaration and reporting requirements*—(1) *Annual declaration on past activities.* A plant site described in paragraph (a)(1) of this section that has an annual declaration requirement for the production, processing, or consumption of a Schedule 2 chemical for the previous calendar year also must declare the export and/or import of that same Schedule 2 chemical if the amount exceeded the applicable threshold set forth in paragraph (b) of this section. The plant site must declare such export or import information as part of its annual declaration of past activities.

(2) *Annual report on exports and imports.* Declared plant sites described in paragraph (a)(2)(i) of this section, and undeclared plant sites, trading companies or any other person (described in paragraphs (a)(2)(ii) through (iv) of this section) subject to the CWCR that exported or imported a Schedule 2 chemical in a previous calendar year in excess of the applicable thresholds set forth in paragraph (b) of this section must submit an annual report on such exports or imports.

(d) *Types of declaration and reporting forms to be used*—(1) *Annual declaration on past activities.* If you are a declared Schedule 2 plant site, as described in paragraph (a)(1) of this section, you must complete Form 2–3B, in addition to the forms required by § 713.2(b)(1) of the CWCR, for each declared Schedule 2 chemical exported or imported above the applicable threshold in the previous calendar year.

(2) *Annual report on exports and imports.* (i) If you are a declared plant site, as described in paragraph (a)(2)(i) of this section, you may fulfill your annual reporting requirements by:

(A) Submitting, *with* your annual declaration on past activities, a Form 2–3B for each Schedule 2 chemical you exported or imported above the applicable threshold. Attach Form A, as appropriate; Form B is optional; or

(B) Submitting, *separately from* your annual declaration on past activities, a Certification Form, Form 2–1, and

Form 2–3B for each Schedule 2 chemical you exported or imported above the applicable threshold. Attach Form A, as appropriate; Form B is optional.

(ii) If you are an undeclared plant site, trading company or any other person subject to the CWCR, you must complete the Certification Form, Form 2–1, and Form 2–3B for each Schedule 2 chemical you exported or imported above the applicable threshold. Attach Form A, as appropriate; Form B is optional.

(e) *Quantities to be declared*—(1) *Calculations.* If you exported from or imported to your plant site, trading company, or other location more than the applicable threshold of a Schedule 2 chemical in the previous calendar year, you must declare or report all exports and imports of that chemical by country of destination or country of origin, respectively, and indicate the total amount exported to or imported from each country.

(2) *Rounding.* For purposes of declaring or reporting exports and imports of a Schedule 2 chemical, you must total all exports and imports per calendar year per recipient or source and then round as follows: For the chemical BZ, the total quantity for each country of destination or country of origin (source) should be reported to the nearest hundredth of a kilogram (10 grams); for PFIB and Amiton and corresponding alkylated or protonated salts, the quantity for each destination or source should be reported to the nearest 1 kilogram; and for all other Schedule 2 chemicals, the total quantity for each destination or source should be reported to the nearest 10 kilograms.

§ 713.4 Advance declaration requirements for additionally planned production, processing, or consumption of Schedule 2 chemicals.

(a) *Declaration requirements for additionally planned activities.* (1) You must declare additionally planned production, processing, or consumption of Schedule 2 chemicals after the annual declaration on anticipated activities for the next calendar year has been delivered to BIS if:

(i) You plan that a previously undeclared plant on your plant site under § 713.2(a)(1)(ii) of the CWCR will produce, process, or consume a Schedule 2 chemical above the applicable declaration threshold;

(ii) You plan to produce, process, or consume at a plant declared under § 713.2(a)(1)(ii) of the CWCR an additional Schedule 2 chemical above the applicable declaration threshold;

(iii) You plan an additional activity (production, processing, or consumption) at your declared plant above the applicable declaration threshold for a chemical declared under § 713.2(a)(1)(ii) of the CWCR;

(iv) You plan to increase the production, processing, or consumption of a Schedule 2 chemical by a plant declared under § 713.2(a)(1)(ii) of the CWCR from the amount exceeding the applicable declaration threshold to an amount exceeding the applicable inspection threshold (see § 716.1(b)(2) of the CWCR);

(v) You plan to change the starting or ending date of anticipated production, processing, or consumption declared under § 713.2(a)(1)(ii) of the CWCR by more than three months; or

(vi) You plan to increase your production, processing, or consumption of a Schedule 2 chemical by a declared plant site by 20 percent or more above that declared under § 713.2(a)(1)(ii) of the CWCR.

(2) If you must submit a declaration on additionally planned activities because you plan to engage in any of the activities listed in paragraphs (a)(1)(i) through (vi) of this section, you also should declare changes to your declaration relating to the following activities. You do not have to submit an additionally planned declaration if you are only changing the following nonquantitative activities:

(i) Changes to the plant's production capacity;

(ii) Changes or additions to the product group codes for the plant site or the plant(s);

(iii) Changes to the plant's activity status (i.e., dedicated, multipurpose, or other status);

(iv) Changes to the plant's multipurpose activities;

(v) Changes to the plant site's status relating to domestic transfer of the chemical;

(vi) Changes to the plant site's purposes for which the chemical will be produced, processed or consumed; or

(vii) Changes to the plant site's status relating to exports of the chemical or the addition of new countries for export.

(b) *Declaration forms to be used.* If you are required to declare additionally planned activities pursuant to paragraph (a) of this section, you must complete the Certification Form and Forms 2–1, 2–2, 2–3, and 2–3C as appropriate. Such forms are due to BIS at least 15 days prior to beginning the additional activity.

§ 713.5 Amended declaration or report.

In order for BIS to maintain accurate information on previously submitted plant site declarations, including information necessary to facilitate inspection notifications and activities or to communicate declaration or reporting requirements, amended declarations or reports will be required under the circumstances described in this section. This section applies only to annual declarations on past activities submitted for the three previous calendar years, annual reports on exports and imports for the previous calendar year or annual declarations on anticipated activities covering the current calendar year, unless specified otherwise in a final inspection report.

(a) *Changes to information that directly affect inspection of a declared plant site's Annual Declaration of Past Activities (ADPA) or Combined Annual Declaration and Report.* You must submit an amended declaration or report to BIS within 15 days of any change in the following information:

(1) Types of Schedule 2 chemicals produced, processed, or consumed;

(2) Quantities of Schedule 2 chemicals produced, processed, or consumed;

(3) Activities involving Schedule 2 chemicals (production, processing, consumption);

(4) End-use of Schedule 2 chemicals (e.g., additional end-use(s));

(5) Product group codes for Schedule 2 chemicals produced, processed, or consumed;

(6) Production capacity for manufacturing a specific Schedule 2 chemical at particular plant site;

(7) Exports or imports (e.g., changes in the types of Schedule 2 chemicals exported or imported or in the quantity, recipients, or sources of such chemicals);

(8) Domestic transfers (e.g., changes in the types of Schedule 2 chemicals, types of destinations, or product group codes); and

(9) Addition of new plant(s) for the production, processing, or consumption of Schedule 2 chemicals.

(b) *Changes to export or import information submitted in Annual Reports on Exports and Imports from undeclared plant sites, trading companies and U.S. persons.* You must submit an amended report or amended combined declaration and report to BIS within 15 days of any change in the following export or import information:

(1) Types of Schedule 2 chemicals exported or imported (additional Schedule 2 chemicals);

(2) Quantities of Schedule 2 chemicals exported or imported;

(3) Destination(s) of Schedule 2 chemicals exported; and

(4) Source(s) of Schedule 2 chemicals imported.

(c) *Changes to company and plant site information that must be maintained by BIS for the ADPA, Annual Declaration on Anticipated Activities (ADAA), and the Annual Report on Exports and Imports—*

(1) *Internal company changes.* You must submit an amended declaration or report to BIS within 30 days of any change in the following information:

(i) Name of declaration/report point of contact (D–POC), including telephone number, facsimile number, and e-mail address;

(ii) Name(s) of inspection point(s) of contact (I–POC), including telephone number(s), facsimile number(s) and e-mail address(es);

(iii) Company name (see paragraph (c)(2) of this section for other company changes);

(iv) Company mailing address;

(v) Plant site name;

(vi) Plant site owner, including telephone number, and facsimile number;

(vii) Plant site operator, including telephone number, and facsimile number;

(viii) Plant name;

(ix) Plant owner, including telephone number, and facsimile number; and

(x) Plant operator, including telephone number and facsimile number.

(2) *Change in ownership of company, plant site, or plant.* If you sold *or* purchased a declared plant site, plant, or trading company you must submit an amended declaration or report to BIS, either before the effective date of the change or within 30 days after the effective date of the change. The amended declaration or report must include the following information:

(i) Information that must be submitted to BIS by the company selling a declared plant site:

(A) Name of seller (i.e., name of the company selling a declared plant site);

(B) Name of the declared plant site and U.S. Code Number for that plant site;

(C) Name of purchaser (i.e., name of the new company/owner purchasing a declared plant site) and identity of contact person for the purchaser, if known;

(D) Date of ownership transfer or change;

(E) Additional (e.g., unique) details on the sale of the declared plant site relevant to ownership or operational control over any portion of the declared plant site (e.g., whether the entire plant site or only a portion of the declared plant site has been sold to a new owner); and

(F) Details regarding whether the new owner will submit the next declaration or report for the entire calendar year during which the ownership change occurred, or whether the previous owner and new owner will submit separate declarations or reports for the periods of the calendar year during which each owned the plant site or trading company.

(*1*) If the new owner is responsible for submitting the declaration or report for the entire current year, it must have in its possession the records for the period of the year during which the previous owner owned the plant site.

(*2*) If the previous owner and new owner will submit separate declarations or reports for the periods of the calendar year during which each owned the plant site, and, if at the time of transfer of ownership, the previous owner's activities are not above the declaration or reporting thresholds set forth in § 713.2(a)(1)(i)(A)(*1*) through (*3*) and § 713.3(b)(1)(i) through (iii) of the CWCR, respectively, the previous owner and the new owner must still submit declarations to BIS with the below threshold quantities indicated.

(*3*) If the part-year declarations submitted by the previous owner and the new owner are not, when combined, above the declaration thresholds set forth in § 713.2(a)(1)(i)(A)(*1*) through (*3*) of the CWCR, BIS will return the declarations without action as set forth in § 713.6 of the CWCR.

(*4*) If part-year reports submitted by the previous owner and the new owner are not, when combined, above the thresholds in §§ 713.3(b)(1)(i) through (iii) of the CWCR, BIS will return the reports without action as set forth in § 713.6 of the CWCR.

(ii) Information that must be submitted to BIS by the company purchasing a declared plant site:

(A) Name of purchaser (i.e., name of individual or company purchasing a declared plant site);

(B) Mailing address of purchaser;

(C) Name of declaration point of contact (D–POC) for the purchaser, including telephone number, facsimile number, and e-mail address;

(D) Name of inspection point(s) of contact (I–POC) for the purchaser, including telephone number(s), facsimile number(s) and e-mail address(es);

(E) Name of the declared plant site and U.S. Code Number for that plant site;

(F) Location of the declared plant site;

(G) Owner of the declared plant site, including telephone number, and facsimile number;

(H) Operator of the declared plant site, including telephone number, and facsimile number;

(I) Name of plant(s) where Schedule 2 activities exceed the applicable declaration threshold;

(J) Owner and operator of plant(s) where Schedule 2 activities exceed the applicable declaration threshold, including telephone numbers, and facsimile numbers;

(K) Location of the plant where Schedule 2 activities exceed the applicable declaration threshold; and

(L) Details on the next declaration or report submission on whether the new owner will submit the declaration or report for the entire calendar year during which the ownership change occurred, or whether the previous owner and new owner will submit separate declarations or reports for the periods of the calendar year during which each owned the plant site or trading company.

NOTE 1 TO § 713.5(c): You must submit an amendment to your most recently submitted declaration or report for declaring changes to internal company information (e.g., company name change) or changes in ownership of a facility or trading company that have occurred since the submission of this declaration or report. BIS will process the amendment to ensure current information is on file regarding the facility or trading company (e.g., for inspection notifications and correspondence) and will also forward the amended declaration to the OPCW to ensure that they also have current information on file regarding your facility or trading company.

NOTE 2 TO § 713.5(c): You may notify BIS of change in ownership via a letter to the address given in § 711.6 of the CWCR. If you are submitting an amended declaration or report, use Form B to address details regarding the sale of the declared plant site or trading company.

NOTE 3 TO § 713.5(c): For ownership changes, the declared facility or trading company will maintain its original U.S. Code Number, unless the plant site or trading company is sold to multiple owners, at which time BIS will assign new U.S. Code Numbers.

(d) *Inspection-related amendments*. If, following the completion of an inspection (see parts 716 and 717 of the CWCR), you are required to submit an amended declaration based on the final inspection report, BIS will notify you in writing of the information that will be required pursuant to §§ 716.10 and 717.5 of the CWCR. You must submit an amended declaration to BIS no later than 45 days following your receipt of BIS's post-inspection letter.

(e) *Non-substantive changes*. If, subsequent to the submission of your declaration or report to BIS, you discover one or more non-substantive typographical errors in your declaration or report, you are not required to submit an amended declaration or report to BIS. Instead, you may correct these errors in a subsequent declaration or report.

(f) *Documentation required for amended declarations or reports*. If you are required to submit an amended declaration or report to BIS pursuant to paragraph (a), (b), (c), or (d) of this section, you must submit either:

(1) A letter containing all of the corrected information required, in accordance with the provisions of this section, to amend your declaration or report; or

(2) Both of the following:

(i) A new Certification Form; and

(ii) The specific forms required for the declaration or report type being amended (e.g., annual declaration on past activities) containing the corrected information required, in accordance with the requirements of this section, to amend your declaration or report.

§ 713.6 Declarations and reports returned without action by BIS.

If you submit a declaration or report and BIS determines that the information contained therein is not required by the CWCR, BIS will return the original declaration or report to you, without action, accompanied by a letter explaining BIS's decision. In order to protect your confidential business information, BIS will not maintain a copy of any declaration or report that is returned without action (RWA). However, BIS will maintain a copy of the RWA letter.

§ 713.7 Deadlines for submission of Schedule 2 declarations, reports, and amendments.

Declarations, reports, and amendments required under this part must be postmarked by the appropriate date identified in supplement no. 2 to this part 713. Required declarations, reports, and amendments include:

(a) Annual declaration on past activities (production, processing, or consumption of Schedule 2 chemicals during the previous calendar year);

(b) Annual report on exports and imports of Schedule 2 chemicals by plant sites, trading companies, and other

persons subject to the CWCR (during the previous calendar year);

(c) Combined declaration and report (production, processing, or consumption of Schedule 2 chemicals, as well as exports or imports of the same or different Schedule 2 chemicals, by a declared plant site during the previous calendar year);

(d) Annual declaration on anticipated activities (production, processing or consumption) involving Schedule 2 chemicals during the next calendar year;

(e) Declaration on Additionally Planned Activities (production, processing or consumption) involving Schedule 2 chemicals; and

(f) Amended declaration and report, including combined declaration and report.

SUPPLEMENT NO. 1 TO PART 713—SCHEDULE 2 CHEMICALS

	(CAS registry number)
A. Toxic chemicals:	
(1) Amiton: O,O-Diethyl S-[2-(diethylamino)ethyl] phosphorothiolate and corresponding alkylated or protonated salts	(78–53–5)
(2) PFIB: 1,1,3,3,3-Pentafluoro-2-(trifluoromethyl)-1-propene	(382–21–8)
(3) BZ: 3-Quinuclidinyl benzilate	(6581–06–2)
B. Precursors:	
(4) Chemicals, except for those listed in Schedule 1, containing a phosphorus atom to which is bonded one methyl, ethyl or propyl (normal or iso) group but not further carbon atoms, e.g. Methylphosphonyl dichloride	(676–97–1)
Dimethyl methylphosphonate	(756–79–6)
Exemption: Fonofos: O-Ethyl S-phenyl ethylphosphono-thiolothionate	(944–22–9)
(5) N,N-Dialkyl (Me, Et, n-Pr or i-Pr) phosphoramidic dihalides	
(6) Dialkyl (Me, Et, n-Pr or i-Pr) N,N-dialkyl (Me, Et, n-Pr or i-Pr)-phosphoramidates	
(7) Arsenic trichloride	(7784–34–1)
(8) 2,2-Diphenyl-2-hydroxyacetic acid	(76–93–7)
(9) Quinuclidine-3-ol	(1619–34–7)
(10) N,N-Dialkyl (Me, Et, n-Pr or i-Pr) aminoethyl-2-chlorides and corresponding protonated salts	
(11) N,N-Dialkyl (Me, Et, n-Pr or i-Pr) aminoethane-2-ols and corresponding protonated salts	
Exemptions: N,N-Dimethylaminoethanol and corresponding protonated salts	(108–01–0)
N,N-Diethylaminoethanol and corresponding protonated salts	(100–37–8)
(12) N,N-Dialkyl (Me, Et, n-Pr or i-Pr) aminoethane-2-thiols and corresponding protonated salts	
(13) Thiodiglycol: Bis(2-hydroxyethyl)sulfide	(111–48–8)
(14) Pinacolyl alcohol: 3,3-Dimethylbutane-2-ol	(464–07–3)

Notes to Supplement No. 1

Note 1: Note that the following Schedule 2 chemicals are controlled for export purposes by the Directorate of Defense Trade Controls of the Department of State under the International Traffic in Arms Regulations (22 CFR parts 120 through 130): Amiton: O,O-Diethyl S-[2-(diethylamino)ethyl] phosphorothiolate and corresponding alkylated or protonated salts (78–53–5); BZ: 3-Quinuclidinyl benzilate 6581–06–2); and Methylphosphonyl dichloride (676–97–1).

Note 2: All Schedule 2 chemicals not listed in Note 1 to this Supplement are controlled for export purposes under the Export Administration Regulations (see part 774 of the EAR, the Commerce Control List).

SUPPLEMENT NO. 2 TO PART 713—DEADLINES FOR SUBMISSION OF SCHEDULE 2 DECLARATIONS, REPORTS, AND AMENDMENTS

Declarations and reports	Applicable forms	Due dates
Annual Declaration on Past Activities (previous calendar year)—Declared plant site (production, processing, or consumption).	Certification, 2–1, 2–2, 2–3, 2–3A, 2–3B (if also exported or imported), A (as appropriate), B (optional).	February 28 of the year following any calendar year in which the production, processing, or consumption of a Schedule 2 chemical exceeded the applicable declaration thresholds in § 713.2(a)(1)(i) of the CWCR.
Annual Report on Exports and Imports (previous calendar year)—Plant site, trading company, other persons.	Certification, 2–1, 2–3B, A (as appropriate), B (optional).	February 28 of the year following any calendar year in which exports or imports of a Schedule 2 chemical by a plant site, trading company, or other person subject to the CWCR (as described in § 713.3(a)(2) of the CWCR) exceeded the applicable thresholds in § 713.3(b)(1) of the CWCR.

Declarations and reports	Applicable forms	Due dates
Combined Declaration & Report—Declared plant site (production, processing, or consumption; exports and imports).	Certification, 2–1, 2–2, 2–3, 2–3A, 2–3B, A (as appropriate), B (optional).	February 28 of the year following any calendar year in which the production, processing, or consumption of a Schedule 2 chemical and the export or import of the same or a different Schedule 2 chemical by a declared plant site exceeded the applicable thresholds in §§713.2(a)(1)(i) and 713.3(b)(1), respectively, of the CWCR.
Annual Declaration on Anticipated Activities (next calendar year).	Certification, 2–1, 2–2, 2–3, 2–3A, 2–3C, A (as appropriate), B (optional).	September 3 of the year prior to any calendar year in which Schedule 2 activities are anticipated to occur.
Declaration on Additionally Planned Activities (production, processing and consumption).	Certification, 2–1, 2–2, 2–3, 2–3A, 2–3C, A (as appropriate), B (optional).	15 calendar days before the additionally planned activity begins.
Amended Declaration	Certification, 2–1, 2–2, 2–3 2–3A, 2–3B (if also exported or imported), A (as appropriate), B (optional).	
—Declaration information		—15 calendar days after change in information.
—Company information		—30 calendar days after change in information.
—Post-inspection letter		—45 calendar days after receipt of letter.
Amended Report	Certification, 2–1, 2–3B, A (as appropriate), B (optional).	—15 calendar days after change in information.
Amended Combined Declaration & Report.	Certification, 2–1, 2–2, 2–3, 2–3A, 2–3B, A (as appropriate), B (optional).	—15 calendar days after change in information.

PART 714—ACTIVITIES INVOLVING SCHEDULE 3 CHEMICALS

Sec.

714.1 Annual declaration requirements for plant sites that produce a Schedule 3 chemical in excess of 30 metric tons.
714.2 Annual reporting requirements for exports and imports in excess of 30 metric tons of Schedule 3 chemicals.
714.3 Advance declaration requirements for additionally planned production of Schedule 3 chemicals.
714.4 Amended declaration or report.
714.5 Declarations and reports returned without action by BIS.
714.6 Deadlines for submission of Schedule 3 declarations, reports, and amendments.
SUPPLEMENT NO. 1 TO PART 714—SCHEDULE 3 CHEMICALS
SUPPLEMENT NO. 2 TO PART 714—DEADLINES FOR SUBMISSION OF SCHEDULE 3 DECLARATIONS, REPORTS, AND AMENDMENTS

AUTHORITY: 22 U.S.C. 6701 *et seq.;* E.O. 13128, 64 FR 36703, 3 CFR 1999 Comp., p. 199.

SOURCE: 71 FR 24929, Apr. 27, 2006, unless otherwise noted.

§714.1 Annual declaration requirements for plant sites that produce a Schedule 3 chemical in excess of 30 metric tons.

(a) *Declaration of production of Schedule 3 chemicals for purposes not prohibited by the CWC*—(1) *Production quantities that trigger the declaration requirement.* You must complete the appropriate forms specified in paragraph (b) of this section if you have produced or anticipate producing a Schedule 3 chemical (see supplement no. 1 to this part) as follows:

(i) *Annual declaration on past activities.* You produced at one or more plants on your plant site in excess of 30 metric tons of any single Schedule 3 chemical during the previous calendar year.

(ii) *Annual declaration on anticipated activities.* You anticipate that you will produce at one or more plants on your plant site in excess of 30 metric tons of any single Schedule 3 chemical in the next calendar year.

(2) *Schedule 3 chemical production.* (i) For the purpose of determining Schedule 3 production, you must include all steps in the production of a chemical in any units within the same plant through chemical reaction, including any associated processes (e.g., purification, separation, extraction, distillation, or refining) in which the chemical is not converted into another chemical. The exact nature of any associated process (e.g., purification, etc.) is not required to be declared.

(ii) For the purpose of determining if a Schedule 3 chemical is subject to declaration, you must declare an intermediate Schedule 3 chemical, but not a transient intermediate Schedule 3 chemical.

(3) *Mixtures containing a Schedule 3 chemical*—(i) *When you must count the quantity of a Schedule 3 chemical in a mixture for declaration purposes.* The quantity of each Schedule 3 chemical contained in a mixture must be counted for declaration purposes only if the concentration of each Schedule 3 chemical in the mixture is 80% or more by volume or by weight, whichever yields the lesser percent.

(ii) *How to count the amount of a Schedule 3 chemical in a mixture.* If your mixture contains 80% or more concentration of a Schedule 3 chemical, you must count only the amount (weight) of the Schedule 3 chemical in the mixture, not the total weight of the mixture.

(b) *Types of declaration forms to be used*—(1) *Annual declaration on past activities.* You must complete the Certification Form and Forms 3–1, 3–2, 3–3, and Form A if one or more plants on your plant site produced in excess of 30 metric tons of any single Schedule 3 chemical during the previous calendar year. Form B is optional.

(2) *Annual declaration on anticipated activities.* You must complete the Certification Form, and Forms 3–1 and 3–3 if you anticipate that you will produce at one or more plants on your plant site in excess of 30 metric tons of any single Schedule 3 chemical in the next calendar year.

(c) *Quantities to be declared*—(1) *Production of a Schedule 3 chemical in excess of 30 metric tons.* If your plant site is subject to the declaration requirements of paragraph (a) of this section, you must declare the range within which the production at your plant site falls (30 to 200 metric tons, 200 to 1,000 metric tons, etc.) as specified on Form 3–3. When specifying the range of production for your plant site, you must aggregate the production quantities of all plants on the plant site that produced the Schedule 3 chemical in amounts greater than 30 metric tons. Do not aggregate amounts of production from plants on the plant site that did not individually produce a Schedule 3 chemical in amounts greater than 30 metric tons. You must complete a separate Form 3–3 for each Schedule 3 chemical for which production at your plant site exceeds 30 metric tons.

(2) *Rounding.* To determine the production range into which your plant site falls, add all the production of the declared Schedule 3 chemical during the calendar year from all plants on your plant site that produced the Schedule 3 chemical in amounts exceeding 30 metric tons, and round to the nearest ten metric tons.

(d) *''Declared'' Schedule 3 plant site.* A plant site that submitted a declaration pursuant to paragraph (a)(1) of this section is a ''declared'' Schedule 3 plant site.

(e) *Routine inspections of declared Schedule 3 plant sites.* A ''declared'' Schedule 3 plant site is subject to routine inspection by the Organization for the Prohibition of Chemical Weapons (see part 716 of the CWCR) if:

(1) The declared plants on your plant site produced in excess of 200 metric tons aggregate of any Schedule 3 chemical during the previous calendar year; or

(2) You anticipate that the declared plants on your plant site will produce in excess of 200 metric tons aggregate of any Schedule 3 chemical during the next calendar year.

§ 714.2 Annual reporting requirements for exports and imports in excess of 30 metric tons of Schedule 3 chemicals.

(a) Any person subject to the CWCR that exported from or imported into the United States in excess of 30 metric tons of any single Schedule 3 chemical during the previous calendar year has a reporting requirement under this section.

(1) *Annual report on exports and imports.* Declared plant sites, undeclared plant sites, trading companies, or any other person subject to the CWCR that exported from or imported into the United States in excess of 30 metric tons of any single Schedule 3 chemical during the previous calendar year must submit an annual report on exports and imports.

NOTE 1 TO §714.2(a)(1): Declared and undeclared plant sites must count, for reporting purposes, all exports from and imports to the entire plant site, not only from or to individual plants on the plant site.

NOTE 2 TO §714.2(a)(1): The U.S. Government will not submit to the OPCW company-specific information relating to the export or import of Schedule 3 chemicals contained in reports. The U.S. Government will add all export and import information contained in reports to establish the U.S. national aggregate declaration on exports and imports.

(2) *Mixtures containing a Schedule 3 chemical.* The quantity of a Schedule 3 chemical contained in a mixture must be counted for reporting an export or import only if the concentration of the Schedule 3 chemical in the mixture is 80% or more by volume or by weight, whichever yields the lesser percent. For reporting purposes, only count the weight of the Schedule 3 chemical in the mixture, not the entire weight of the mixture.

NOTE TO §714.2(a)(2): The ''80% and above'' mixtures rule applies only for reporting purposes. This rule does not apply for purposes of determining whether the export of your mixture to a non-State Party requires an End-Use Certificate or for determining whether you need an export license from BIS (see 15 CFR 742.2, 742.18 and 745.2 of the Export Administration Regulations) or from the Department of State (see the International Traffic in Arms Regulations (22 CFR parts 120 through 130)).

(b) *Types of forms to be used*—(1) *Declared Schedule 3 plant sites.* (i) If your plant site is declared for production of a Schedule 3 chemical (and has completed questions 3–3.1 and 3–3.2 on Form 3–3) and you also exported from or imported to your plant site in excess of 30 metric tons of that same Schedule 3 chemical, you must report the export or import by either:

(A) Completing question 3–3.3 on Form 3–3 on your declaration for that same Schedule 3 chemical; or

(B) Submitting, separately from your declaration, a Certification Form, Form 3–1, and a Form 3–3 for each Schedule 3 chemical to be reported, completing only question 3–3.3. Attach Form A, as appropriate; Form B is optional.

(ii) If your plant site is declared for production of a Schedule 3 chemical and you exported or imported in excess of 30 metric tons of a different Schedule 3 chemical, you must report the export or import by either:

(A) Submitting, along with your declaration, a Form 3–3 for each Schedule 3 chemical to be reported, completing only question 3–3.3. Attach Form A, as appropriate; Form B is optional; or

(B) Submitting, separately from your declaration, a Certification Form, Form 3–1 and a Form 3.3 for each Schedule 3 chemical to be reported, completing only question 3–3.3. Attach Form A, as appropriate; Form B is optional.

(2) If you are an undeclared plant site, a trading company, or any other person subject to the CWCR, you must submit a Certification Form, Form 3–1, and a Form 3–3 for each Schedule 3 chemical to be reported, completing only question 3–3.3. Attach Form A, as appropriate; Form B is optional.

(c) *Quantities to be reported*—(1) *Calculations.* If you exported from or imported to your plant site or trading company more than 30 metric tons of a Schedule 3 chemical in the previous calendar year, you must report all exports and imports of that chemical by country of destination or country of origin, respectively, and indicate the total amount exported to or imported from each country.

(2) *Rounding.* For purposes of reporting exports and imports of a Schedule 3 chemical, you must total all exports and imports per calendar year per recipient or source and then round to the nearest 0.1 metric tons.

NOTE TO §714.2(c): Under the Convention, the United States is obligated to provide the OPCW a national aggregate annual declaration of the quantities of each Schedule 3 chemical exported and imported, with a quantitative breakdown for each country or destination involved. The U.S. Government will *not* submit your company-specific information relating to the export or import of a Schedule 3 chemical reported under this §714.2. The U.S. Government will add all export and import information submitted by various facilities under this section to produce a national aggregate annual declaration of destination-by-destination trade for each Schedule 3 chemical.

§ 714.3 Advance declaration requirements for additionally planned production of Schedule 3 chemicals.

(a) *Declaration requirements.* (1) You must declare additionally planned production of Schedule 3 chemicals after the annual declaration on anticipated activities for the next calendar year has been delivered to BIS if:

(i) You plan that a previously undeclared plant on your plant site under § 714.1(a)(1)(ii) of the CWCR will produce a Schedule 3 chemical above the declaration threshold;

(ii) You plan to produce at a plant declared under § 714.1(a)(1)(ii) of the CWCR an additional Schedule 3 chemical above the declaration threshold;

(iii) You plan to increase the production of a Schedule 3 chemical by declared plants on your plant site from the amount exceeding the applicable declaration threshold to an amount exceeding the applicable inspection threshold (see § 716.1(b)(3) of the CWCR); or

(iv) You plan to increase the aggregate production of a Schedule 3 chemical at a declared plant site to an amount above the upper limit of the range previously declared under § 714.1(a)(1)(ii) of the CWCR.

(2) If you must submit a declaration on additionally planned activities because you plan to engage in any of the activities listed in paragraphs (a)(1)(i) through (iv) of this section, you also should declare any changes to the anticipated purposes of production or product group codes. You do not have to submit a declaration on additionally planned activities if you are only changing your purposes of production or product group codes.

(b) *Declaration forms to be used.* If you are required to declare additionally planned activities pursuant to paragraph (a) of this section, you must complete the Certification Form and Forms 3–1, 3–2, and 3–3 as appropriate. Such forms are due to BIS at least 15 days in advance of the beginning of the additional or new activity.

§ 714.4 Amended declaration or report.

In order for BIS to maintain accurate information on previously submitted plant site declarations, including information necessary to facilitate inspection notifications and activities or to communicate declaration or reporting requirements, amended declarations or reports will be required under the following circumstances described in this section. This section applies only to annual declarations on past activities and annual reports on exports and imports submitted for the previous calendar year or annual declarations on anticipated activities covering the current calendar year, unless specified otherwise in a final inspection report.

(a) *Changes to information that directly affects a declared plant site's Annual Declaration of Past Activities (ADPA) or Combined Annual Declaration or Report which was previously submitted to BIS.* You must submit an amended declaration or report to BIS within 15 days of determining that there has been a change in any of the following information that you have previously declared or reported:

(1) Types of Schedule 3 chemicals produced (e.g., production of additional Schedule 3 chemicals);

(2) Production range (e.g., from 30 to 200 metric tons to above 200 to 1000 metric tons) of Schedule 3 chemicals;

(3) Purpose of Schedule 3 chemical production (e.g., additional end-uses); or

(4) Addition of new plant(s) for production of Schedule 3 chemicals.

(b) *Changes to export or import information submitted in Annual Reports on Exports and Imports from undeclared plant sites, trading companies and U.S. persons.* You must submit an amended report or amended combined declaration and report to BIS within 15 days of any change in the following export or import information:

(1) Types of Schedule 3 chemicals exported or imported (additional Schedule 3 chemicals);

(2) Quantities of Schedule 3 chemicals exported or imported;

(3) Destination(s) of Schedule 3 chemicals exported; and

(4) Source(s) of Schedule 3 chemicals imported.

(c) *Changes to company and plant site information submitted in the ADPA, the Annual Declaration of Anticipated Activities, and the Annual Report on Exports and Imports*—(1) *Internal company changes.* You must submit an amended

declaration or report to BIS within 30 days of any change in the following information:

(i) Name of declaration/report point of contact (D–POC), including telephone number, facsimile number, and e-mail address;

(ii) Name(s) of inspection point(s) of contact (I–POC), including telephone number, and facsimile number, and e-mail address(es);

(iii) Company name (see 714.4(c)(2) for other company changes);

(iv) Company mailing address;

(v) Plant site name;

(vi) Plant site owner, including telephone number and facsimile number;

(vii) Plant site operator, including telephone number and facsimile number;

(viii) Plant name;

(xi) Plant owner, including telephone number and facsimile number; and

(x) Plant operator, including telephone number and facsimile number.

(2) *Change in ownership of company, plant site, or plant.* If you sold or purchased a declared company, plant site or plant, you must submit an amended declaration or report to BIS, either before the effective date of the change or within 30 days after the effective date of the change. The amended declaration or report must include the following information.

(i) Information that must be submitted to BIS by a company selling a declared plant site:

(A) Name of seller (i.e., name of the company selling a declared plant site);

(B) Name of declared plant site and U.S. Code Number for that plant site;

(C) Name of purchaser (i.e., name of company purchasing a declared plant site) and identity of the new owner and contact person for the purchaser, if known;

(D) Date of ownership transfer;

(E) Additional (e.g., unique) details on the sale of the plant site relevant to ownership or operational control over any portion of the declared plant site (e.g., whether the entire plant site or only a portion of the declared plant site has been sold to a new owner); and

(F) Details regarding whether the new owner will submit the declaration or report for the entire calendar year during which the ownership change occurred, or whether the previous owner and the new owner will submit separate declarations or reports for the periods of the calendar year during which each owned the plant site or trading company.

(*1*) If the new owner is responsible for submitting the declaration or report for the entire current year, it must have in its possession the records for the period of the year during which the previous owner owned the plant site or trading company.

(*2*) If the previous owner and new owner will submit separate declarations or reports for the periods of the calendar year during which each owned the plant site or trading company, and, at the time of transfer of ownership, the previous owner's activities are not above the declaration or reporting thresholds set forth in §714.1(a)(1) and §714.2(a)(1) of the CWCR, respectively, the previous owner and the new owner must still submit declarations to BIS with the below threshold quantities indicated.

(*3*) If the part-year declarations submitted by the previous owner and the new owner are not, when combined, above the declaration threshold set forth in §714.1(a)(1) of the CWCR, BIS will return the declarations without action as set forth in §714.5 of the CWCR.

(*4*) If part-year reports are not, when combined, above the reporting threshold set forth in §714.2(a)(1) of the CWCR, BIS will return the reports without action as set forth in §714.5 of the CWCR.

(ii) Information that must be submitted to BIS by the company purchasing a declared plant site:

(A) Name of purchaser (i.e., name of individual or company purchasing a declared plant site);

(B) Mailing address of purchaser;

(C) Name of declaration point of contact (D–POC) for the purchaser, including telephone number, facsimile number, and e-mail address;

(D) Name(s) of inspection point(s)s of contact (I–POC) for the purchaser, including telephone number, facsimile number, and e-mail address(es);

(E) Name of the declared plant site and U.S. Code Number for that plant site;

(F) Location of the declared plant site;

(G) Operator of the declared plant site, including telephone number, and facsimile number;

(H) Name of plant where Schedule 3 production exceeds the declaration threshold;

(I) Owner of plant where Schedule 3 production exceeds the declaration threshold;

(J) Operator of plant where Schedule 3 production exceeds the declaration threshold; and

(K) Details on the next declaration or report submission on whether the new owner will submit the declaration or report for the entire calendar year during which the ownership change occurred, or whether the previous owner and new owner will submit separate declarations or reports for the periods of the calendar year during which each owned the plant site or trading company.

NOTE 1 TO § 714.4(c): You must submit an amendment to your most recently submitted declaration or report for declaring changes to internal company information (e.g., company name change) or changes in ownership of a facility or trading company that have occurred since the submission of this declaration or report. BIS will process the amendment to ensure current information is on file regarding the facility or trading company (e.g., for inspection notifications and correspondence) and will also forward the amended declaration to the OPCW to ensure that they also have current information on file regarding your facility or trading company.

NOTE 2 TO § 714.4(c): You may notify BIS of change in ownership via a letter to the address given in § 711.6 of the CWCR. If you are submitting an amended declaration or report, use Form B to address details regarding the sale of the declared plant site or trading company.

NOTE 3 TO § 714.4(c): For ownership changes, the declared plant site or trading company will maintain its original U.S. Code Number, unless the plant site or trading company is sold to multiple owners, at which time BIS will assign new U.S. Code Numbers.

(d) *Inspection-related amendments.* If, following the completion of an inspection (see parts 716 and 717 of the CWCR), you are required to submit an amended declaration based on the final inspection report, BIS will notify you in writing of the information to be amended pursuant to §§ 716.10 and 717.5(b) of the CWCR. Amended declarations must be submitted to BIS no later than 45 days following your receipt of BIS's post-inspection letter.

(e) *Non-substantive changes.* If, subsequent to the submission of your declaration or report to BIS, you discover one or more non-substantive typographical errors in your declaration or report, you are not required to submit an amended declaration or report to BIS. Instead, you may correct these errors in a subsequent declaration or report.

(f) *Documentation required for amended declarations or reports.* If you are required to submit an amended declaration or report to BIS pursuant to paragraph (a), (b), (c), or (d) of this section, you must submit either:

(1) A letter containing all of the corrected information required, in accordance with the provisions of this section, to amend your declaration or report; or

(2) Both of the following:

(i) A new Certification Form; and

(ii) The specific forms required for the declaration or report type being amended (e.g., annual declaration on past activities) containing the corrected information required, in accordance with the requirements of this section, to amend your declaration or report.

§ 714.5 Declarations and reports returned without action by BIS.

If you submit a declaration or report and BIS determines that the information contained therein is not required by the CWCR, BIS will return the original declaration or report to you, without action, accompanied by a letter explaining BIS's decision. In order to protect your confidential business information, BIS will not maintain a copy of any declaration or report that is returned without action. However, BIS will maintain a copy of the RWA letter.

§ 714.6 Deadlines for submission of Schedule 3 declarations, reports, and amendments.

Declarations, reports, and amendments required under this part must be postmarked by the appropriate date identified in supplement no. 2 to this

part 714 of the CWCR. Required declarations, reports, and amendments include:

(a) Annual declaration on past activities (production of Schedule 3 chemicals during the previous calendar year);

(b) Annual report on exports and imports of Schedule 3 chemicals from plant sites, trading companies, and other persons subject to the CWCR (during the previous calendar year);

(c) Combined declaration and report (production of Schedule 3 chemicals, as well as exports or imports of the same or different Schedule 3 chemicals, by a declared plant site during the previous calendar year);

(d) Annual declaration on anticipated activities (anticipated production of Schedule 3 chemicals during the next calendar year);

(e) Declaration on Additionally Planned Activities (additionally planned production of Schedule 3 chemicals); and

(f) Amended declaration and report, including combined declaration and report.

SUPPLEMENT NO. 1 TO PART 714—SCHEDULE 3 CHEMICALS

	(CAS registry number)
A. Toxic chemicals:	
(1) Phosgene: Carbonyl dichloride	(75–44–5)
(2) Cyanogen chloride	(506–77–4)
(3) Hydrogen cyanide	(74–90–8)
(4) Chloropicrin: Trichloronitromethane	(76–06–2)
B. Precursors:	
(5) Phosphorus oxychloride	(10025–87–3)
(6) Phosphorus trichloride	(7719–12–2)
(7) Phosphorus pentachloride	(10026–13–8)
(8) Trimethyl phosphite	(121–45–9)
(9) Triethyl phosphite	(122–52–1)
(10) Dimethyl phosphite	(868–85–9)
(11) Diethyl phosphite	(762–04–9)
(12) Sulfur monochloride	(10025–67–9)
(13) Sulfur dichloride	(10545–99–0)
(14) Thionyl chloride	(7719–09–7)
(15) Ethyldiethanolamine	(139–87–7)
(16) Methyldiethanolamine	(105–59–9)
(17) Triethanolamine	(102–71–6)

Note to Supplement No. 1: Refer to supplement no. 1 to part 774 of the Export Administration Regulations (the Commerce Control List), ECCNs 1C350 and 1C355, for export controls related to Schedule 3 chemicals.

SUPPLEMENT NO. 2 TO PART 714—DEADLINES FOR SUBMISSION OF SCHEDULE 3 DECLARATIONS, REPORTS, AND AMENDMENTS

Declarations	Applicable forms	Due dates
Annual Declaration on Past Activities (previous calendar year)—Declared plant site (production).	Certification, 3–1, 3–2, 3–3 (if also exported or imported), A (as appropriate), B (optional).	February 28 of the year following any calendar year in which the production of a Schedule 3 chemical exceeded the declaration threshold in §714.1(a)(1)(i) of the CWCR.
Annual Report on Exports and Imports (previous calendar year)—Plant site, trading company, other persons.	Certification, 3–1, 3–3.3 and 3–3.4, A (as appropriate), B (optional).	February 28 of the year following any calendar year in which exports or imports of a Schedule 3 chemical by a plant site, trading company, or other person subject to the CWCR (as described in §714.2(a) of the CWCR) exceeded the threshold in §714.2(a) of the CWCR.
Combined Declaration & Report	Certification, 3–1, 3–2, and 3–3, A (as appropriate), B (optional).	February 28 of the year following any calendar year in which the production of a Schedule 3 chemical and the export or import of the same or a different Schedule 3 chemical by a declared plant site exceeded the applicable thresholds in §§714.1(a)(1)(i) and 714.2(a), respectively, of the CWCR.

Declarations	Applicable forms	Due dates
Annual Declaration on Anticipated Activities (Production) (next calendar year).	Certification, 3–1, 3–2, 3–3.2, A (as appropriate), B (optional).	September 3 of the year prior to any calendar year in which Schedule 3 production is anticipated to occur.
Declaration on Additionally Planned Activities.	Certification, 3–1, 3–3.1 and 3–3.2, A (as appropriate), B (optional).	15 calendar days before the additionally planned activity begins.
Amended Declaration	Certification, 3–1, 3–2, 3–3.	
—Declaration information		—15 calendar days after change in information.
—Company information		—30 calendar days after change in information.
—Post-inspection letter		—45 calendar days after receipt of letter.
Amended Report	Certification, 3–1, 3–2, 3–3, A (as appropriate), B (optional).	—15 calendar days after change in information.
Amended Combined Declaration & Report.	Certification, 3–1, 3–2, 3–3, A (as appropriate), B (optional).	—15 calendar days after change in information.

PART 715—ACTIVITIES INVOLVING UNSCHEDULED DISCRETE ORGANIC CHEMICALS (UDOCs)

Sec.
715.1 Annual declaration requirements for production by synthesis of unscheduled discrete organic chemicals (UDOCs).
715.2 Amended declaration.
715.3 Declarations returned without action by BIS.
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SUPPLEMENT NO. 1 TO PART 715—DEFINITION OF AN UNSCHEDULED DISCRETE ORGANIC CHEMICAL
SUPPLEMENT NO. 2 TO PART 715—EXAMPLES OF UNSCHEDULED DISCRETE ORGANIC CHEMICALS (UDOCS) AND UDOC PRODUCTION
SUPPLEMENT NO. 3 TO PART 715—DEADLINES FOR SUBMISSION OF DECLARATIONS, NO CHANGES AUTHORIZATION FORMS, AMENDMENTS FOR UNSCHEDULED DISCRETE ORGANIC CHEMICAL (UDOC) FACILITIES, AND CHANGE IN INSPECTION STATUS FORMS

AUTHORITY: 22 U.S.C. 6701 *et seq.;* E.O. 13128, 64 FR 36703, 3 CFR 1999 Comp., p. 199.

SOURCE: 71 FR 24929, Apr. 27, 2006, unless otherwise noted.

§ 715.1 Annual declaration requirements for production by synthesis of unscheduled discrete organic chemicals (UDOCs).

(a) *Declaration of production by synthesis of UDOCs for purposes not prohibited by the CWC*—(1) *Production quantities that trigger the declaration requirement.* See § 711.6 of the CWCR for information on obtaining the forms you will need to declare production of unscheduled discrete organic chemicals. You must complete the forms specified in paragraph (b) of this section if your plant site produced by synthesis:

(i) In excess of 200 metric tons aggregate of all UDOCs (including all UDOCs containing the elements phosphorus, sulfur or fluorine, referred to as ''PSF chemicals'') during the previous calendar year; or

(ii) In excess of 30 metric tons of an individual PSF chemical at one or more plants at your plant site during the previous calendar year.

NOTE TO § 715.1(a)(1)(ii): In calculating the aggregate production quantity of each individual PSF chemical produced by a PSF plant, do not include production of a PSF chemical that was produced in quantities less than 30 metric tons. Include only production quantities from those PSF plants that produced more than 30 metric tons of an individual PSF chemical.

(2) *UDOCs subject to declaration requirements under this part.* (i) UDOCs subject to declaration requirements under this part are those produced by synthesis that have been isolated for:

(A) Use; or

(B) Sale as a specific end product.

(ii) *Exemptions.* (A) Polymers and oligomers consisting of two or more repeating units;

(B) Chemicals and chemical mixtures produced through a biological or biomediated process;

(C) Products from the refining of crude oil, including sulfur-containing crude oil;

(D) Metal carbides (i.e., chemicals consisting only of metal and carbon); and

(E) UDOCs produced by synthesis that are ingredients or by-products in

foods designed for consumption by humans and/or animals.

NOTE TO §715.1(a)(2): See supplement no. 2 to this part 715 for examples of UDOCs subject to the declaration requirements of this part, and for examples of activities that are not considered production by synthesis.

(3) *Exemptions for UDOC plant sites.* UDOC plant sites that exclusively produced hydrocarbons or explosives are exempt from UDOC declaration requirements. For the purposes of this part, the following definitions apply for hydrocarbons and explosives:

(i) Hydrocarbon means any organic compound that contains only carbon and hydrogen; and

(ii) Explosive means a chemical (or a mixture of chemicals) that is included in Class 1 of the United Nations Organization hazard classification system.

(b) *Types of declaration forms to be used*—(1) *Annual declaration on past activities.* You must complete the *Certification Form and Form UDOC* (consisting of two pages), unless there are no changes from the previous year's declaration and you submit a *No Changes Authorization Form* pursuant to paragraph (b)(2) of this section. Attach Form A as appropriate; Form B is optional.

NOTE TO §715.1(b)(1): If there is a change in the inspection status of your plant site, as described in paragraph (d)(2) of this section, you may submit an Annual Declaration on Past Activities, in lieu of a Change in Inspection Status Form, under the circumstances described in Note 3 to paragraph (d)(2). In this case, the due date for submitting the Annual Declaration on Past Activities to BIS, covering UDOC production at your plant site during the *current* calendar year, would be December 15th of the *current* calendar year, instead of February 28th of the next calendar year (also see supplement no. 3 to this part). If you choose to submit your Annual Declaration on Past Activities to BIS by December 15th and, subsequently, you determine that the production by synthesis of UDOCs at your plant site actually exceeded the UDOC inspection threshold level specified in paragraph (d)(1) of this section, you must submit an amendment to your Annual Declaration on Past Activities (see §715.2 of the CWCR) and indicate, on Form B, the reason your plant site exceeded the UDOC inspection threshold.

(2) *No Changes Authorization Form.* You may complete the *No Changes Authorization Form* if there are no updates or changes to any information (except the certifying official and dates signed and submitted) in your plant site's previously submitted annual declaration on past activities. Your plant site's activities will be declared to the OPCW and subject to inspection, if applicable, based upon the data reported in the most recent UDOC Declaration that you submitted to BIS.

NOTE TO §715.1(b)(2): If, after submitting the *No Changes Authorization Form,* you have changes to information, you must submit a complete amendment to the annual declaration on past activities. See §715.2 of the CWCR.

(c) *''Declared'' UDOC plant site.* A plant site that submitted a declaration pursuant to paragraph (a)(1) of this section is a ''declared'' UDOC plant site.

(d) *Routine inspections of declared UDOC plant sites*—(1) *Inspection requirement.* A ''declared'' UDOC plant site is subject to routine inspection by the Organization for the Prohibition of Chemical Weapons (OPCW) (see part 716 of the CWCR) if it produced by synthesis more than 200 metric tons aggregate of UDOCs during the previous calendar year.

(2) *Change in inspection status.* You may complete the Change in Inspection Status Form, to ensure that your facility does not remain subject to inspection during the first 90 days of the next calendar year (i.e., prior to the submission of the U.S. declaration to the OPCW), if:

(i) Your plant site is currently subject to inspection, pursuant to paragraph (d)(1) of this section, based on your plant site's production by synthesis of UDOCs during the *previous* calendar year; and

(ii) Your plant site's production by synthesis of UDOCs in the *current* calendar year will be below the inspection threshold level specified in paragraph (d)(1) of this section by the deadline indicated in supplement no. 3 to this part, and is anticipated to remain below that threshold level through the remainder of the *current* calendar year.

NOTE 1 TO §715.1(d)(2): Upon receipt of the Change in Inspection Status Form, BIS will inform the Organization for the Prohibition of Chemical Weapons (OPCW) that your plant site is not subject to inspection during the *next* calendar year.

NOTE 2 TO § 715.1(d)(2): If, after submitting your Change in Inspection Status Form to BIS, you determine that the production by synthesis of UDOCs at your plant site actually exceeded the UDOC inspection threshold level specified in paragraph (d)(1) of this section, you must indicate this fact when you submit your Annual Declaration on Past Activities to BIS and indicate, on Form B, the reason your plant site exceeded the UDOC inspection threshold.

NOTE 3 TO § 715.1(d)(2): You may submit the Annual Declaration on Past Activities described in paragraph (b)(1) of this section, instead of the Change in Inspection Status Form, if you anticipate that UDOC production at your plant site during the *current* calendar year will be below the inspection threshold level specified in paragraph (d)(1) of this section, but you expect your plant site to remain subject to the UDOC declaration requirements in paragraph (a)(1) of this section. In this case, the due date for the Annual Declaration on Past Activities will be December 15th of the current calendar year, instead of February 28th of the *next* calendar year. Note that any changes to information contained in the Annual Declaration on Past Activities must be addressed in accordance with the amendment requirements in § 715.2 of the CWCR. For example, if subsequent to the submission of your Annual Declaration on Past Activities to BIS on December 15th, you determine that the production by synthesis of UDOCs at your plant site actually exceeded the UDOC inspection threshold level specified in paragraph (d)(1) of this section, you must submit an amendment to your Annual Declaration on Past Activities (see § 715.2 of the CWCR) and indicate, on Form B, the reason your plant site exceeded the UDOC inspection threshold.

NOTE 4 TO § 715.1(d)(2): Currently inspectable UDOC plant sites that do not submit either a Change in Inspection Status Form or Annual Declaration of Past Activities by December 15th of the current calendar year, in accordance with paragraph (d)(2) of this section, will remain subject to inspection through at least the 90-day period at the beginning of the next calendar year.

[71 FR 24929, Apr. 27, 2006, as amended at 72 FR 14408, Mar. 28, 2007]

§ 715.2 Amended declaration.

In order for BIS to maintain accurate information on previously submitted plant site declarations, including current information necessary to facilitate inspection notifications and activities or to communicate declaration requirements, amended declarations will be required under the following circumstances described in this section. This section applies only to annual declarations on past activities submitted for the previous calendar year, unless specified otherwise in a final inspection report.

(a) *Changes to information that directly affects a declared plant site's Annual Declaration of Past Activities (ADPA) which was previously submitted to BIS.* You must submit an amended declaration to BIS within 15 days of any change in the following information:

(1) Product group codes for UDOCs produced in quantities exceeding the applicable declaration threshold specified in § 715.1(a)(1) of the CWCR;

(2) Approximate number of plants at the declared plant site that produced any amount of UDOCs (including all PSF chemicals);

(3) Aggregate amount of production (by production range) of UDOCs produced by all plants at the declared plant site;

(4) Exact number of plants at the declared plant site that individually produced more than 30 metric tons of a single PSF chemical; and

(5) Production range of each plant at the declared plant site that individually produced more than 30 metric tons of a single PSF chemical.

(b) *Changes to company and plant site information submitted in the ADPA that must be maintained by BIS*—(1) *Internal company changes.* You must submit an amended declaration to BIS within 30 days of any change in the following information:

(i) Name of declaration point of contact (D–POC), including telephone number, facsimile number, and e-mail address;

(ii) Name(s) of inspection point(s) of contact (I–POC), including telephone number, facsimile number(s) and e-mail address(es);

(iii) Company name (see 715.2(b)(2) for other company changes);

(iv) Company mailing address;

(v) Plant site name;

(vi) Plant site owner, including telephone number and facsimile number; and

(vii) Plant site operator, including telephone number and facsimile number.

(2) *Change in ownership of company or plant site.* If you sold or purchased a declared plant site, you must submit an

amended declaration to BIS, either before the effective date of the change or within 30 days after the effective date of the change. The amended declaration must include the following information.

(i) Information that must be submitted to BIS by the company selling a declared plant site:

(A) Name of seller (i.e., name of company selling a declared plant site);

(B) Name of declared plant site name and U.S. Code Number for that plant site;

(C) Name of purchaser (i.e., name of new company purchasing a declared plant site) and identity of contact person for the purchaser, if known;

(D) Date of ownership transfer or change;

(E) Additional details on the sale of the declared plant site relevant to ownership or operational control over any portion of the declared plant site (e.g., whether the entire plant site or only a portion of the declared plant site has been sold to a new owner); and

(F) Details regarding whether the new owner will submit the declaration for the entire calendar year during which the ownership change occurred, or whether the previous owner and new owner will submit separate declarations for the periods of the calendar year during which each owned the plant site.

(*1*) If the new owner is responsible for submitting the declaration for the entire current year, it must have in its possession the records for the period of the year during which the previous owner owned the plant site.

(*2*) If the previous owner and new owner will submit separate declarations for the periods of the calendar year during which each owned the plant site, and, if at the time of transfer of ownership, the previous owner's activities are not above the declaration thresholds set forth in §715.1(a)(1) of the CWCR, the previous owner and the new owner must still submit declarations to BIS with the below threshold quantities indicated.

(*3*) If the part-year declarations submitted by the previous owner and the new owner are not, when combined, above the declaration threshold set forth in §715.1(a)(1) of the CWCR, BIS will return the declarations without action as set forth in §715.3 of the CWCR.

(ii) Information that must be submitted to BIS by the company purchasing a declared plant site:

(A) Name of purchaser (i.e., name of individual or company purchasing a declared plant site);

(B) Mailing address of purchaser;

(C) Name of declaration point of contact (D–POC) for the purchaser, including telephone number, facsimile number, and e-mail address;

(D) Name(s) of inspection point(s) of contact (I–POC) for the purchaser, including telephone number(s), facsimile number(s), and e-mail address(es);

(E) Name of the declared plant site and U.S. Code Number for that plant site;

(F) Location of the declared plant site;

(G) Name of plant site where the production of UDOCs exceeds the applicable declaration threshold;

(H) Owner of plant site where the production of UDOCs exceeds the applicable declaration threshold, including telephone number and facsimile number;

(I) Operator of plant site where the production of UDOCs exceeds the applicable declaration threshold, including telephone number and facsimile number; and

(J) Details on the next declaration or report submission on whether the new owner will submit the declaration or report for the entire calendar year during which the ownership change occurred, or whether the previous owner and new owner will submit separate declarations or report for the periods of the calendar year during which each owned the plant site.

NOTE 1 TO §715.2(b): You must submit an amendment to your most recently submitted declaration or report for declaring changes to internal company information (e.g., company name change) or changes in ownership of a facility or trading company that have occurred since the submission of this declaration or report. BIS will process the amendment to ensure current information is on file regarding the facility or trading company (e.g., for inspection notifications and correspondence) and will also forward the amended declaration to the OPCW to ensure that they also have current information on

file regarding your facility or trading company.

NOTE 2 TO § 715.2(b): You may notify BIS of change in ownership via a letter to the address given in § 711.6 of the CWCR. If you are submitting an amended declaration, use Form B to address details regarding the sale of the declared plant site.

NOTE 3 TO § 715.2(b): For ownership changes, the declared plant site will maintain its original U.S. Code Number, unless the plant site is sold to multiple owners, at which time BIS will assign new U.S. Code Numbers.

(c) *Inspection-related amendments.* If, following completion of an inspection (see part 716 or 717 of the CWCR), you are required to submit an amended declaration based on the final inspection report, BIS will notify you in writing of the information that will be required pursuant to §§ 716.10 and 717.5 of the CWCR. You must submit an amended declaration to BIS no later than 45 days following your receipt of BIS's post-inspection letter.

(d) *Non-substantive changes.* If, subsequent to the submission of your declaration to BIS, you discover one or more non-substantive typographical errors in your declaration, you are not required to submit an amended declaration to BIS. Instead, you may correct these errors in a subsequent declaration.

(e) *Documentation required for amended declarations.* If you are required to submit an amended declaration to BIS pursuant to paragraph (a), (b), or (c) of this section, you must submit either:

(1) A letter containing all of the corrected information required, in accordance with the provisions of this section, to amend your declaration; or

(2) Both of the following:

(i) A new Certification Form; and

(ii) The specific form required for the declaration containing the corrected information required, in accordance with the requirements of this section, to amend your declaration.

§ 715.3 Declarations returned without action by BIS.

If you submit a declaration and BIS determines that the information contained therein is not required by the CWCR, BIS will return the original declaration to you, without action, accompanied by a letter explaining BIS's decision. In order to protect your confidential business information, BIS will not maintain a copy of any declaration that is returned without action. However, BIS will maintain a copy of the RWA letter.

§ 715.4 Deadlines for submitting UDOC declarations, No Changes Authorization Forms, Change in Inspection Status Forms, and amendments.

Declarations, No Changes Authorization Forms, Change in Inspection Status Forms, and amendments required under this part must be postmarked by the appropriate dates identified in supplement no. 3 to this part 715 of the CWCR. Required documents under this part include:

(a) *Annual Declaration on Past Activities* (UDOC production during the previous calendar year);

(b) *No Changes Authorization Form* (may be completed and submitted to BIS when there are no changes to any information in your plant site's previously submitted annual declaration on past activities, except the certifying official and the dates signed and submitted); and

(c) *Change in Inspection Status Form*—May be completed and submitted to BIS if your plant site is currently subject to inspection, pursuant to § 715.1(d)(1) of the CWCR, and you anticipate that the production of UDOCs at your plant site during the *current* calendar year will remain below the inspection threshold level indicated therein (i.e., 200 metric tons aggregate); and

(d) Amended declaration.

[71 FR 24929, Apr. 27, 2006, as amended at 72 FR 14408, Mar. 28, 2007]

SUPPLEMENT NO. 1 TO PART 715—DEFINITION OF AN UNSCHEDULED DISCRETE ORGANIC CHEMICAL

Unscheduled discrete organic chemical means any chemical: (1) Belonging to the class of chemical compounds consisting of all compounds of carbon except for its oxides, sulfides and metal carbonates identifiable by chemical name, by structural formula, if known, and by Chemical Abstract Service registry number, if assigned; and (2) that is not contained in the Schedules of Chemicals (see Supplements No. 1 to parts 712 through 714 of the CWCR). Unscheduled

discrete organic chemicals subject to declaration under this part are those produced by synthesis that are isolated for use or sale as a specific end-product.

NOTE: Carbon oxides consist of chemical compounds that contain only the elements carbon and oxygen and have the chemical formula C_xO_y, where x and y denote integers. The two most common carbon oxides are carbon monoxide (CO) and carbon dioxide (CO_2). Carbon sulfides consist of chemical compounds that contain only the elements carbon and sulfur, and have the chemical formula C_aS_b, where a and b denote integers. The most common carbon sulfide is carbon disulfide (CS_2). Metal carbonates consist of chemical compounds that contain a metal (i.e., the Group I Alkalis, Groups II Alkaline Earths, the Transition Metals, or the elements aluminum, gallium, indium, thallium, tin, lead, bismuth or polonium), and the elements carbon and oxygen. Metal carbonates have the chemical formula $M_d(CO_3)_e$, where d and e denote integers and M represents a metal. Common metal carbonates are sodium carbonate (Na_2CO_3) and calcium carbonate (C_aCO_3). In addition, metal carbides or other compounds consisting of only a metal, as described in this Note, and carbon (e.g., calcium carbide (C_aC_2)), are exempt from declaration requirements (see § 715.1(a)(2)(ii)(D) of the CWCR).

SUPPLEMENT NO. 2 TO PART 715—EXAMPLES OF UNSCHEDULED DISCRETE ORGANIC CHEMICALS (UDOCS) AND UDOC PRODUCTION

(1) Examples of UDOCs not subject to declaration include:

(i) UDOCs produced coincidentally as by-products that are not isolated for use or sale as a specific end product, and are routed to, or escape from, the waste stream of a stack, incinerator, or waste treatment system or any other waste stream;

(ii) UDOCs, contained in mixtures, which are produced coincidentally and not isolated for use or sale as a specific end-product;

(iii) UDOCs produced by recycling (i.e., involving one of the processes listed in paragraph (3) of this supplement) of previously declared UDOCs;

(iv) UDOCs produced by the mixing (i.e., the process of combining or blending into one mass) of previously declared UDOCs; and

(v) UDOCs that are intermediates and that are used in a single or multi-step process to produce another declared UDOC.

(2) Examples of UDOCs that you must declare under part 715 of the CWCR include, but are not limited to, the following, unless they are not isolated for use or sale as a specific end product:

(i) Acetophenone (CAS #98–86–2);

(ii) 6-Chloro-2-methyl aniline (CAS #87–63–8);

(iii) 2-Amino-3-hydroxybenzoic acid (CAS #548–93–6); and

(iv) Acetone (CAS #67–64–1).

(3) Examples of activities that are not considered ''production by synthesis'' under part 715 of the CWCR, which means the end products resulting from such activities would not be declared under part 715, are as follows:

(i) Fermentation;

(ii) Extraction;

(iii) Purification;

(iv) Distillation; and

(v) Filtration.

SUPPLEMENT NO. 3 TO PART 715— DEADLINES FOR SUBMISSION OF DECLARATIONS, NO CHANGES AUTHORIZATION FORMS, AMENDMENTS FOR UNSCHEDULED DISCRETE ORGANIC CHEMICAL (UDOC) FACILITIES, AND CHANGE IN INSPECTION STATUS FORMS

Declarations	Applicable forms	Due dates
Annual Declaration on Past Activities (previous calendar year). Declared plant site.	Certification, UDOC, A (as appropriate), B (optional).	February 28 of the year following any calendar year in which the production by synthesis of UDOCs exceeded the applicable declaration threshold in § 715.1(a)(1) of the CWCR.*
No Changes Authorization Form (declaration required, but no changes to data contained in previously submitted annual declaration on past activities—previous calendar year). Declared plant site	No Changes Authorization Form	February 28 of the year following any calendar year in which the production by synthesis of UDOCs exceeded the applicable declaration threshold in § 715.1(a)(1) of the CWCR.
Amended Declaration:	Certification, UDOC, A (as appropriate), B (optional).	
—Declaration information		—15 calendar days after change in information.
—Company information		—30 calendar days after change in information.
—Post-inspection letter		—45 calendar days after receipt of letter.

Declarations	Applicable forms	Due dates
Change in Inspection Status Form (applies only if your plant site is currently subject to inspection, pursuant to §715.1(d)(1) of the CWCR, and you anticipate that the production by synthesis of UDOCs at your plant site during the current calendar year will remain below the inspection threshold level specified therein).	Change in Inspection Status Form	December 15th of any calendar year in which the production by synthesis of UDOCs is anticipated to be below the inspection threshold level specified in §715.1(d)(1) of the CWCR.*

*You may submit the Annual Declaration on Past Activities (ADPA) described in §715.1(b)(1), instead of the Change in Inspection Status Form, if you anticipate that UDOC production at your plant site during the current calendar year will be below the inspection threshold level specified in §715.1(d)(1), but you expect your plant site to remain subject to the UDOC declaration requirements in §715.1(a)(1). In this case, the due date for the Annual Declaration on Past Activities will be December 15th of the current calendar year, instead of February 28th of the *next* calendar year.

[72 FR 14408, Mar. 28, 2007]

PART 716—INITIAL AND ROUTINE INSPECTIONS OF DECLARED FACILITIES

Sec.

716.1 General information on the conduct of initial and routine inspections.
716.2 Purposes and types of inspections of declared facilities.
716.3 Consent to inspections; warrants for inspections.
716.4 Scope and conduct of inspections.
716.5 Notification, duration and frequency of inspections.
716.6 Facility agreements.
716.7 Samples.
716.8 On-site monitoring of Schedule 1 facilities.
716.9 Report of inspection-related costs.
716.10 Post-inspection activities.
SUPPLEMENT NO. 1 TO PART 716—NOTIFICATION, DURATION, AND FREQUENCY OF INSPECTIONS
SUPPLEMENT NOS. 2–3 TO PART 716 [RESERVED]

AUTHORITY: 22 U.S.C. 6701 *et seq.;* E.O. 13128, 64 FR 36703, 3 CFR 1999 Comp., p. 199.

SOURCE: 71 FR 24929, Apr. 27, 2006, unless otherwise noted.

§716.1 General information on the conduct of initial and routine inspections.

This part provides general information about the conduct of initial and routine inspections of declared facilities subject to inspection under CWC Verification Annex Part VI(E), Part VII(B), Part VIII(B) and Part IX(B). See part 717 of the CWCR for provisions concerning challenge inspections.

(a) *Overview.* Each State Party to the CWC, including the United States, has agreed to allow certain inspections of declared facilities by inspection teams employed by the Organization for the Prohibition of Chemical Weapons (OPCW) to ensure that activities are consistent with obligations under the Convention. BIS is responsible for leading, hosting and escorting inspections of all facilities subject to the provisions of the CWCR (see §710.2 of the CWCR).

(b) *Declared facilities subject to initial and routine inspections*—(1) *Schedule 1 facilities.* (i) Your declared facility is subject to inspection if it produced in excess of 100 grams aggregate of Schedule 1 chemicals in the previous calendar year or anticipates producing in excess of 100 grams aggregate of Schedule 1 chemicals during the next calendar year.

(ii) If you are a new Schedule 1 production facility pursuant to §712.4 of the CWCR, your facility is subject to an initial inspection within 200 days of submitting an initial declaration.

NOTE TO §716.1(b)(1): All Schedule 1 facilities submitting a declaration are subject to inspection.

(2) *Schedule 2 plant sites*—(i) *Inspection thresholds for Schedule 2 plant sites.* Your declared plant site is subject to inspection if at least one plant on your plant site produced, processed or consumed, in any of the three previous calendar years, or you anticipate that at least one plant on your plant site will produce, process or consume in the next calendar year, any Schedule 2 chemical in excess of the following:

(A) 10 kg of chemical BZ: 3-Quinuclidinyl benzilate (see Schedule

2, Part A, paragraph 3 in supplement no. 1 to part 713 of the CWCR);

(B) 1 metric ton of chemical PFIB: 1,1,3,3,3-Pentafluoro-2(trifluoromethyl)-1-propene or any chemical belonging to the Amiton family (see Schedule 2, Part A, paragraphs 1 and 2 in supplement no. 1 to part 713 of the CWCR); or

(C) 10 metric tons of any chemical listed in Schedule 2, Part B (see supplement no. 1 to part 713 of the CWCR).

(ii) *Initial inspection for new Schedule 2 plant sites.* Your declared plant site is subject to an initial inspection within the first year after submitting a declaration, if at least one plant on your plant site produced, processed or consumed in any of the three previous years, or you anticipate that at least one plant on your plant site will produce, process or consume in the next calendar year, any Schedule 2 chemical in excess of the threshold quantities set forth in paragraphs (b)(2)(i)(A) through (C) of this section.

NOTE TO § 716.1(b)(2): The applicable inspection threshold for Schedule 2 plant sites is ten times higher than the applicable declaration threshold. Only declared plant sites, comprising at least one declared plant that exceeds the applicable inspection threshold, are subject to inspection.

(3) *Schedule 3 plant sites.* Your declared plant site is subject to inspection if the declared plants on your plant site produced during the previous calendar year, or you anticipate they will produce in the next calendar year, in excess of 200 metric tons aggregate of any Schedule 3 chemical.

NOTE TO § 716.1(b)(3): The methodology for determining a declarable and inspectable plant site is different. A Schedule 3 plant site that submits a declaration is subject to inspection only if the aggregate production of a Schedule 3 chemical at all declared plants on the plant site exceeds 200 metric tons.

(4) *Unscheduled discrete organic chemical plant sites.* Your declared plant site is subject to inspection if it produced by synthesis more than 200 metric tons aggregate of unscheduled discrete organic chemicals (UDOC) during the previous calendar year.

NOTE 1 TO § 716.1(b)(4): You must include amounts of unscheduled discrete organic chemicals containing phosphorus, sulfur or fluorine in the calculation of your plant site's aggregate production of unscheduled discrete organic chemicals.

NOTE 2 TO § 716.1(b)(4): All UDOC plant sites that submit a declaration based on § 715.1(a)(1)(i) of the CWCR are subject to a routine inspection.

NOTE 3 TO PARAGRAPH (b)(4): Any UDOC plant site that is eligible, in accordance with § 715.1(d)(2) of the CWCR, to submit a Change in Inspection Status Form or an Annual Declaration on Past Activities by December 15th of the current calendar year (*i.e.*, a plant site that will be below the inspection threshold level indicated in paragraph (b)(4) of this section during the current calendar year), but that fails to do so, will remain subject to inspection through at least the 90-day period at the beginning of the next calendar year.

(c) *Responsibilities of the Department of Commerce.* As the host and escort for the international Inspection Team for all inspections of facilities subject to the provisions of the CWCR under this part, BIS will:

(1) Lead on-site inspections;

(2) Provide Host Team notification to the facility of an impending inspection;

(3) Take appropriate action to obtain an administrative warrant in the event the facility does not consent to the inspection;

(4) Dispatch an advance team to the vicinity of the site to provide administrative and logistical support for the impending inspection and, upon request, to assist the facility with inspection preparation;

(5) Escort the Inspection Team on-site throughout the inspection process;

(6) Assist the Inspection Team with verification activities;

(7) Negotiate the development of a site-specific facility agreement, if appropriate (see § 716.6); and

(8) Ensure that an inspection adheres to the Convention, the Act and any warrant issued thereunder, and a site-specific facility agreement, if concluded.

[71 FR 24929, Apr. 27, 2006, as amended at 72 FR 14409, Mar. 28, 2007]

§ 716.2 Purposes and types of inspections of declared facilities.

(a) *Schedule 1 facilities*—(1) *Purposes of inspections.* The aim of inspections of Schedule 1 facilities is to verify that:

(i) The facility is not used to produce any Schedule 1 chemical, except for the declared Schedule 1 chemicals;

(ii) The quantities of Schedule 1 chemicals produced, processed or consumed are correctly declared and consistent with needs for the declared purpose; and

(iii) The Schedule 1 chemical is not diverted or used for purposes other than those declared.

(2) *Types of inspections*—(i) *Initial inspections*. (A) During initial inspections of declared Schedule 1 facilities, in addition to the verification activities listed in paragraph (a)(1) of this section, the Host Team and the Inspection Team will draft site-specific facility agreements (see § 716.6 of the CWCR) for the conduct of routine inspections.

(B) For new Schedule 1 production facilities declared pursuant to § 712.4 of the CWCR, the U.S. National Authority, in coordination with BIS, will conclude a facility agreement with the OPCW before the facility begins producing above 100 grams aggregate of Schedule 1 chemicals.

(ii) *Routine inspections*. During routine inspections of declared Schedule 1 facilities, the verification activities listed in paragraph (a)(1) of this section will be carried out pursuant to site-specific facility agreements (see § 716.6 of the CWCR) developed during the initial inspections and concluded between the U.S. Government and the OPCW pursuant to the Convention.

(b) *Schedule 2 plant sites*—(1) *Purposes of inspections*. (i) The general aim of inspections of declared Schedule 2 plant sites is to verify that activities are in accordance with obligations under the Convention and consistent with the information provided in declarations. Particular aims of inspections of declared Schedule 2 plant sites are to verify:

(A) The absence of any Schedule 1 chemical, especially its production, except in accordance with the provisions of the Convention;

(B) Consistency with declarations of production, processing or consumption of Schedule 2 chemicals; and

(C) Non-diversion of Schedule 2 chemicals for activities prohibited under the Convention.

(ii) During initial inspections, Inspection Teams shall collect information to determine the frequency and intensity of subsequent inspections by assessing the risk to the object and purpose of the Convention posed by the relevant chemicals, the characteristics of the plant site and the nature of the activities carried out there. The Inspection Team will take the following criteria into account, inter alia:

(A) The toxicity of the scheduled chemicals and of the end-products produced with them, if any;

(B) The quantity of the scheduled chemicals typically stored at the inspected site;

(C) The quantity of feedstock chemicals for the scheduled chemicals typically stored at the inspected site;

(D) The production capacity of the Schedule 2 plants; and

(E) The capability and convertibility for initiating production, storage and filling of toxic chemicals at the inspected site.

(2) *Types of inspections*—(i) *Initial inspections*. During initial inspections of declared Schedule 2 plant sites, in addition to the verification activities listed in paragraph (b)(1) of this section, the Host Team and the Inspection Team will generally draft site-specific facility agreements for the conduct of routine inspections (see § 716.6 of the CWCR).

(ii) *Routine inspections*. During routine inspections of declared Schedule 2 plant sites, the verification activities listed in paragraph (b)(1) of this section will be carried out pursuant to any appropriate site-specific facility agreements developed during the initial inspections (see § 716.6 of the CWCR), and concluded between the U.S. Government and the OPCW pursuant to the Convention and the Act.

(c) *Schedule 3 plant sites*—(1) *Purposes of inspections*. The general aim of inspections of declared Schedule 3 plant sites is to verify that activities are consistent with the information provided in declarations. The particular aim of inspections is to verify the absence of any Schedule 1 chemical, especially its production, except in accordance with the Convention.

(2) *Routine inspections*. During routine inspections of declared Schedule 3

plant sites, in addition to the verification activities listed in paragraph (c)(1) of this section, the Host Team and the Inspection Team may draft site-specific facility agreements for the conduct of subsequent routine inspections (see §716.6 of the CWCR). Although the Convention does not require facility agreements for declared Schedule 3 plant sites, the owner, operator, occupant or agent in charge of a plant site may request one. The Host Team will not seek a facility agreement if the owner, operator, occupant or agent in charge of the plant site does not request one. Subsequent routine inspections will be carried out pursuant to site-specific facility agreements, if applicable.

(d) *Unscheduled discrete organic chemical plant sites*—(1) *Purposes of inspections*. The general aim of inspections of declared UDOC plant sites is to verify that activities are consistent with the information provided in declarations. The particular aim of inspections is to verify the absence of any Schedule 1 chemical, especially its production, except in accordance with the Convention.

(2) *Routine inspections*. During routine inspections of declared UDOC plant sites, in addition to the verification activities listed in paragraph (d)(1) of this section, the Host Team and the Inspection Team may develop draft site-specific facility agreements for the conduct of subsequent routine inspections (see §716.6 of the CWCR). Although the Convention does not require facility agreements for declared UDOC plant sites, the owner, operator, occupant or agent in charge of a plant site may request one. The Host Team will not seek a facility agreement if the owner, operator, occupant or agent in charge of the plant site does not request one. Subsequent routine inspections will be carried out pursuant to site-specific facility agreements, if applicable.

§716.3 Consent to inspections; warrants for inspections.

(a) The owner, operator, occupant or agent in charge of a facility may consent to an initial or routine inspection. The individual giving consent on behalf of the facility represents that he or she has the authority to make this decision for the facility.

(b) In instances where consent is not provided by the owner, operator, occupant or agent in charge for an initial or routine inspection, BIS will seek administrative warrants as provided by the Act.

§716.4 Scope and conduct of inspections.

(a) *General*. Each inspection shall be limited to the purposes described in §716.2 of the CWCR and shall be conducted in the least intrusive manner, consistent with the effective and timely accomplishment of its purpose as provided in the Convention.

(b) *Scope*—(1) *Description of inspections*. During inspections, the Inspection Team:

(i) Will receive a pre-inspection briefing from facility representatives;

(ii) Will visually inspect the facilities or plants producing scheduled chemicals or UDOCs, which may include storage areas, feed lines, reaction vessels and ancillary equipment, control equipment, associated laboratories, first aid or medical sections, and waste and effluent handling areas, as necessary to accomplish their inspection;

(iii) May visually inspect other parts or areas of the plant site to clarify an ambiguity that has arisen during the inspection;

(iv) May take photographs or conduct formal interviews of facility personnel;

(v) May examine relevant records; and

(vi) May take samples as provided by the Convention, the Act and consistent with the requirements set forth by the Director of the United States National Authority, at 22 CFR part 103, and the facility agreement, if applicable.

(2) *Scope of consent*. When an owner, operator, occupant, or agent in charge of a facility consents to an initial or routine inspection, he or she is consenting to provide access to the Inspection Team and Host Team to any area of the facility, any item located on the facility, interviews with facility personnel, and any records necessary for the Inspection Team to complete its mission pursuant to paragraph (a) of this section, except for information subject to export control under ITAR

(22 CFR parts 120 through 130) (see paragraph (b)(3) of this section). When consent is granted for an inspection, the owner, operator, occupant, or agent in charge agrees to provide the same degree of access provided for under section 305 of the Act. The determination of whether the Inspection Team's request to inspect any area, building, item or record is reasonable is the responsibility of the Host Team Leader.

(3) *ITAR-controlled technology*. ITAR-controlled technology shall not be divulged to the Inspection Team without U.S. Government authorization (such technology includes, but is not limited to technical data related to Schedule 1 chemicals or Schedule 2 chemicals identified in Note 2 to Supplement No. 1 to Part 712 or Note 1 to Supplement No. 1 to Part 713, respectively, of the CWCR; also see 22 CFR Section 121.1, i.e., the United States Munitions List). Facilities being inspected are responsible for the identification of ITAR-controlled technology to the BIS Host Team, if known.

(c) *Pre-inspection briefing*. Upon arrival of the Inspection Team and Host Team at the inspection site and before commencement of the inspection, facility representatives will provide the Inspection Team and Host Team with a pre-inspection briefing on the facility, the activities carried out there, safety measures, and administrative and logistical arrangements necessary for the inspection, which may be aided with the use of maps and other documentation as deemed appropriate by the facility. The time spent for the briefing will be limited to the minimum necessary and may not exceed three hours.

(1) The pre-inspection briefing will address:

(i) Facility health and safety issues and requirements, and associated alarm systems;

(ii) Declared facility activities, business and manufacturing operations;

(iii) Physical layout;

(iv) Delimitation of declared facility;

(v) Scheduled chemicals on the facility (declared and undeclared);

(vi) Block flow diagram or simplified process flow diagram;

(vii) Plants and units specific to declared operations;

(viii) Administrative and logistic information; and

(ix) Data declaration updates/revisions.

(2) The pre-inspection briefing may also address, inter alia:

(i) Introduction of key facility personnel;

(ii) Management, organization and history;

(iii) Confidential business information concerns;

(iv) Types and location of records/documents;

(v) Draft facility agreement, if applicable; and

(vi) Proposed inspection plan.

(d) *Visual plant inspection*. The Inspection Team may visually inspect the declared plant or facility and other areas or parts of the plant site as agreed by the Host Team Leader after consulting with the facility representative.

(e) *Records review*. (1) The facility must provide the Inspection Team with access to all supporting materials and documentation used by the facility to prepare declarations and to otherwise comply with the requirements of the CWCR. These supporting materials and documentation shall include records related to activities that have taken place at the facility since the beginning of the previous calendar year, regardless of whether or not the facility has submitted its current year Annual Declaration on Past Activities to BIS at the time of the inspection. The facility shall also make available for inspection all records associated with the movement into, around, and from the facility of declared chemicals and their feedstock or any product chemicals formed from such chemicals and feedstock. All supporting materials and documentation subject to the requirements of this paragraph (e) must be retained by the facility in accordance with the requirements of § 721.2 of the CWCR. The facility also must permit access to and copying of these records, upon request by BIS or any other agency of competent jurisdiction, in accordance with the requirements of § 721.1 of the CWCR.

(2) The facility must provide access to these supporting materials and documentation in appropriate formats (e.g., paper copies, electronic remote

access by computer, microfilm, or microfiche), through the U.S. Government Host Team to Inspection Teams, during the inspection period or as otherwise agreed upon by the Inspection Team and Host Team Leader.

(3) The facility must provide the Inspection Team with appropriate accommodations in which to review these supporting materials and documentation.

(4) If a facility does not have access to supporting materials and documentation for activities that took place under previous ownership, because such records were not transferred to the current owner of the facility by the previous owner (e.g., as part of the contract involving the sale of the facility), the previous owner must make such records available to the Host Team for provision to the Inspection Team in accordance with section 305 of the Act. However, the current owner of a facility, upon receiving notification of an inspection (see §716.5 of the CWCR), is responsible for informing BIS if the previous owner did not transfer records for activities that took place under the previous ownership—this will allow BIS to contact the previous owner of the facility, to arrange for access to such records, if BIS deems them relevant to the inspection activities.

(f) *Effect of facility agreements.* Routine inspections at facilities for which the United States has concluded a facility agreement with the OPCW will be conducted in accordance with the facility agreement. The existence of a facility agreement does not in any way limit the right of the owner, operator, occupant, or agent in charge of the facility to withhold consent to an inspection request.

(g) *Hours of inspections.* Consistent with the provisions of the Convention, the Host Team will ensure, to the extent possible, that each inspection is commenced, conducted, and concluded during ordinary working hours, but no inspection shall be prohibited or otherwise disrupted from commencing, continuing or concluding during other hours.

(h) *Health and safety regulations and requirements.* In carrying out their activities, the Inspection Team and Host Team shall observe federal, state, and local health and safety regulations and health and safety requirements established at the inspection site, including those for the protection of controlled environments within a facility and for personal safety. Such health and safety regulations and requirements will be set forth in, but will not necessarily be limited to, the facility agreement, if applicable.

(i) *Preliminary findings.* Upon completion of an inspection, the Inspection Team will meet with the Host Team and facility personnel to review the written preliminary findings of the Inspection Team and to clarify ambiguities. The Host Team will discuss the preliminary findings with the facility, and the Host Team Leader will take into consideration the facility's input when providing official comments on the preliminary findings to the Inspection Team. This meeting will be completed not later than 24 hours after the completion of the inspection.

[71 FR 24929, Apr. 27, 2006, as amended at 72 FR 14409, Mar. 28, 2007]

§716.5 Notification, duration and frequency of inspections.

(a) *Inspection notification*—(1)(i) *Content of notice.* Inspections of facilities may be made only upon issuance of written notice by the United States National Authority (USNA) to the owner and to the operator, occupant or agent in charge of the premises to be inspected. BIS will also provide a separate inspection notification to the inspection point of contact identified in declarations submitted by the facility. If the United States is unable to provide actual written notice to the owner and to the operator, occupant or agent in charge, BIS (or the Federal Bureau of Investigation, if BIS is unable) may post notice prominently at the facility to be inspected. The notice shall include all appropriate information provided by the OPCW to the USNA concerning:

(A) The type of inspection;

(B) The basis for the selection of the facility or location for the type of inspection sought;

(C) The time and date that the inspection will begin and the period covered by the inspection; and

(D) The names and titles of the Inspection Team members.

(ii) *Consent to inspection*. In addition to appropriate information provided by the OPCW in its notification to the USNA, BIS's inspection notification will request that the facility indicate whether it will consent to an inspection, and will state whether an advance team is available to assist the site in preparation for the inspection. If an advance team is available, facilities that request advance team assistance are not required to reimburse the U.S. Government for costs associated with these activities. If a facility does not agree to provide consent to an inspection within four hours of receipt of the inspection notification, BIS will seek an administrative warrant. The current owner of a facility, upon receiving notification of an inspection, is also responsible for informing BIS if the previous owner did not transfer (to the current owner) records for activities that took place under the previous ownership (see § 716.4(e) of the CWCR)—this will allow BIS to contact the previous owner of the facility, to arrange for access to such records, if BIS deems them relevant to the inspection activities.

(iii) The following table sets forth the notification procedures for inspection:

TABLE TO § 716.5(a)(1)

Activity	Agency action	Facility action
(A) OPCW notification inspection	(*1*) U.S. National Authority transmits actual written notice and inspection authorization to the owner and operator, occupant, or agent in charge via facsimile within 6 hours.	Acknowledges receipt of facsimile.
	(*2*) Upon notification from the U.S. National Authority, BIS immediately transmits inspection notification via facsimile to the inspection point of contract to ascertain whether the facility (*i*) grants consent and (*ii*) requests assistance in preparing for the inspection. In absence of consent within four hours of facility receipt, BIS intends to seek an administrative warrant.	(*A*) Indicated whether it grants consent. (*B*) May request advance team support. No requirement for reimbursement of U.S. Government's services.
(B) Preparation for inspection	(*1*) BIS advance team generally arrives in the vicinity of the facility to be inspected 1–2 days after OPCW notification for logistical and administrative preparations.	If advance team support is provided, facility works with the advance team on inspection-related issues.
	(*2*) If records for activities that took place under the previous ownership of the facility are deemed relevant to the inspection, BIS will contact the previous owner of the facility to arrange for access to any such records required under the CWCR that have not been transferred to the current owner.	The current owner of the facility must inform BIS if the previous owner of the facility did not transfer (to the current owner) records for activities that took place under the previous ownership.

(2) *Timing of notice*—(i) *Schedule 1 facilities*. For declared Schedule 1 facilities, the Technical Secretariat will notify the USNA of an initial inspection not less than 72 hours prior to arrival of the Inspection Team in the United States, and will notify the USNA of a routine inspection not less than 24 hours prior to arrival of the Inspection Team in the United States. The USNA will provide written notice to the owner and to the operator, occupant or agent in charge of the premises within six hours of receiving notification from the OPCW Technical Secretariat or as soon as possible thereafter. BIS will provide Host Team notice to the inspection point of contact of the facility as soon as possible after the OPCW notifies the USNA of the inspection.

(ii) *Schedule 2 plant sites*. For declared Schedule 2 plant sites, the Technical Secretariat will notify the USNA of an initial or routine inspection not less than 48 hours prior to arrival of the Inspection Team at the plant site to be

inspected. The USNA will provide written notice to the owner and to the operator, occupant or agent in charge of the premises within six hours of receiving notification from the OPCW Technical Secretariat or as soon as possible thereafter. BIS will provide Host Team notice to the inspection point of contact at the plant site as soon as possible after the OPCW notifies the USNA of the inspection.

(iii) *Schedule 3 and UDOC plant sites.* For declared Schedule 3 and UDOC plant sites, the Technical Secretariat will notify the USNA of a routine inspection not less than 120 hours prior to arrival of the Inspection Team at the plant site to be inspected. The USNA will provide written notice to the owner and to the operator, occupant or agent in charge of the premises within six hours of receiving notification from the OPCW Technical Secretariat or as soon as possible thereafter. BIS will provide Host Team notice to the inspection point of contact of the plant site as soon as possible after the OPCW notifies the USNA of the inspection.

(b) *Period of inspections*—(1) *Schedule 1 facilities.* For a declared Schedule 1 facility, the Convention does not specify a maximum duration for an initial inspection. The estimated period of routine inspections will be as stated in the facility agreement, unless extended by agreement between the Inspection Team and the Host Team Leader, and will be based on the risk to the object and purpose of the Convention posed by the quantities of chemicals produced, the characteristics of the facility and the nature of the activities carried out there. The Host Team Leader will consult with the inspected facility on any request for extension of an inspection prior to making an agreement with the Inspection Team. Activities involving the pre-inspection briefing and preliminary findings are in addition to inspection activities. See §716.4(c) and (i) of the CWCR for a description of these activities.

(2) *Schedule 2 plant sites.* For declared Schedule 2 plant sites, the maximum duration of initial and routine inspections shall be 96 hours, unless extended by agreement between the Inspection Team and the Host Team Leader. The Host Team Leader will consult with the inspected plant site on any request for extension of an inspection prior to making an agreement with the Inspection Team. Activities involving the pre-inspection briefing and preliminary findings are in addition to inspection activities. See §716.4(c) and (i) of the CWCR for a description of these activities.

(3) *Schedule 3 and UDOC plant sites.* For declared Schedule 3 or UDOC plant sites, the maximum duration of routine inspections shall be 24 hours, unless extended by agreement between the Inspection Team and the Host Team Leader. The Host Team Leader will consult with the inspected plant site on any request for extension of an inspection prior to making an agreement with the Inspection Team. Activities involving the pre-inspection briefing and preliminary findings are in addition to inspection activities. See §716.4(c) and (i) of the CWCR for a description of these activities.

(c) *Frequency of inspections.* The frequency of inspections is as follows:

(1) *Schedule 1 facilities.* As provided by the Convention, the frequency of inspections at declared Schedule 1 facilities is determined by the OPCW based on the risk to the object and purpose of the Convention posed by the quantities of chemicals produced, the characteristics of the facility and the nature of the activities carried out at the facility. The frequency of inspections will be stated in the facility agreement.

(2) *Schedule 2 plant sites.* As provided by the Convention and the Act, the maximum number of inspections at declared Schedule 2 plant sites is two per calendar year per plant site. The OPCW will determine the frequency of routine inspections for each declared Schedule 2 plant site based on the Inspection Team's assessment of the risk to the object and purpose of the Convention posed by the relevant chemicals, the characteristics of the plant site, and the nature of the activities carried out there. The frequency of inspections will be stated in the facility agreement, if applicable.

(3) *Schedule 3 plant sites.* As provided by the Convention, no declared Schedule 3 plant site may receive more than two inspections per calendar year and

the combined number of inspections of Schedule 3 and UDOC plant sites in the United States may not exceed 20 per calendar year.

(4) *UDOC plant sites.* As provided by the Convention, no declared UDOC plant site may receive more than two inspections per calendar year and the combined number of inspections of Schedule 3 and UDOC plant sites in the United States may not exceed 20 per calendar year.

§ 716.6 Facility agreements.

(a) *Description and requirements.* A facility agreement is a site-specific agreement between the U.S. Government and the OPCW. Its purpose is to define procedures for inspections of a specific declared facility that is subject to inspection because of the type or amount of chemicals it produces, processes or consumes.

(1) *Schedule 1 facilities.* The Convention requires that facility agreements be concluded between the United States and the OPCW for all declared Schedule 1 facilities. For new Schedule 1 production facilities declared pursuant to § 712.4 of the CWCR, the USNA, in coordination with the Department of Commerce, will conclude a facility agreement with the OPCW before the facility begins producing above 100 grams aggregate of Schedule 1 chemicals.

(2) *Schedule 2 plant sites.* The USNA will ensure that such facility agreements are concluded with the OPCW unless the owner, operator, occupant or agent in charge of the plant site and the OPCW Technical Secretariat agree that such a facility agreement is not necessary.

(3) *Schedule 3 and UDOC plant sites.* If the owner, operator, occupant or agent in charge of a declared Schedule 3 or UDOC plant site requests a facility agreement, the USNA will ensure that a facility agreement for such a plant site is concluded with the OPCW.

(b) *Notification; negotiation of draft and final facility agreements; and conclusion of facility agreements.* Prior to the development of a facility agreement, BIS shall notify the owner, operator, occupant, or agent in charge of the facility, and if the owner, operator, occupant or agent in charge so requests, the notified person may participate in preparations with BIS representatives for the negotiation of such an agreement. During the initial or routine inspection of a declared facility, the Inspection Team and the Host Team will negotiate a draft facility agreement or amendment to a facility agreement. To the maximum extent practicable consistent with the Convention, the owner and the operator, occupant or agent in charge of the facility may observe facility agreement negotiations between the U.S. Government and OPCW. As a general rule, BIS will consult with the affected facility on the contents of the agreements and take the facility's views into consideration during negotiations. BIS will participate in the negotiation of, and approve, all final facility agreements with the OPCW. Facilities will be notified of and have the right to observe final facility agreement negotiations between the United States and the OPCW to the maximum extent practicable, consistent with the Convention. Prior to the conclusion of a final facility agreement, the affected facility will have an opportunity to comment on the facility agreement. BIS will give consideration to such comments prior to approving final facility agreements with the OPCW. The USNA shall ensure that facility agreements for Schedule 1, Schedule 2, Schedule 3 and UDOC facilities are concluded, as appropriate, with the OPCW in coordination with BIS.

(c) [Reserved]

(d) *Further information.* For further information about facility agreements, please write or call: Treaty Compliance Division, Bureau of Industry and Security, U.S. Department of Commerce, Room 4515, 14th Street and Pennsylvania Avenue, NW., Washington, DC 20230, Telephone: (202) 482–1001.

[71 FR 24929, Apr. 27, 2006, as amended at 73 FR 78183, Dec. 22, 2008]

§ 716.7 Samples.

The owner, operator, occupant or agent in charge of a facility must provide a sample as provided for in the Convention and the Act and consistent with requirements set forth by the Director of the United States National Authority in 22 CFR part 103. Analysis

will be restricted to verifying the absence of undeclared scheduled chemicals, unless otherwise agreed after consultation with the facility representative.

§ 716.8 On-site monitoring of Schedule 1 facilities.

Declared Schedule 1 facilities are subject to verification by monitoring with on-site instruments as provided by the Convention. For facilities subject to the CWCR, however, such monitoring is not anticipated. The U.S. Government will ensure that any monitoring that may be requested by the OPCW is carried out pursuant to the Convention and U.S. law.

§ 716.9 Report of inspection-related costs.

Pursuant to section 309(b)(5) of the Act, any facility that has undergone any inspections pursuant to the CWCR during a given calendar year must report to BIS within 90 days of an inspection on its total costs related to that inspection. Although not required, such reports should identify categories of costs separately if possible, such as personnel costs (production-line, administrative, legal), costs of producing records, and costs associated with shutting down chemical production or processing during inspections, if applicable. This information should be reported to BIS on company letterhead at the address given in § 716.6(d) of the CWCR, with the following notation: ''Attn: Report of inspection-related costs.''

§ 716.10 Post-inspection activities.

BIS will forward a copy of the final inspection report to the inspected facility for their review upon receipt from the OPCW. Facilities may submit comments on the final inspection report to BIS, within the time-frame specified by BIS (*i.e.*, at least 7 working days from receipt of the report), and BIS will consider them, to the extent possible, when commenting on the final report. BIS will also send facilities a post-inspection letter detailing the issues that require follow-up action, e.g., amended declaration requirement (see §§ 712.7(d), 713.5(d), 714.4(d), and 715.2(c) of the CWCR), information on the status of the draft facility agreement, if applicable, and the date on which the report on inspection-related costs (see § 716.9 of the CWCR) is due to BIS.

SUPPLEMENT NO. 1 TO PART 716—NOTIFICATION, DURATION AND FREQUENCY OF INSPECTIONS

	Schedule 1	Schedule 2	Schedule 3	Unscheduled discrete organic chemicals
Notice of initial or routine inspection to USNA.	72 hours prior to arrival of Inspection Team at the point of entry (initial); 24 hours prior to arrival of Inspection Team at the point of entry (routine).	48 hours prior to arrival of Inspection Team at the plant site.	120 hours prior to arrival of Inspection Team at the plant site.	120 hours prior to arrival of Inspection Team at the plant site.
Duration of inspection ..	As specified in facility agreement.	96 hours	24 hours	24 hours.
Maximum number of inspections.	Determined by OPCW based on characteristics of facility and the nature of the activities carried out at the facility.	2 per calendar year per plant site.	2 per calendar year per plant site.	2 per calendar year per plant site.
Notification of challenge inspection to USNA*.	12 hours prior to arrival of inspection team at the point of entry.			
Duration of Challenge inspection*.	84 hours.			

*See part 717 of the CWCR.

SUPPLEMENT NOS. 2–3 TO PART 716
[RESERVED]

PART 717—CWC CLARIFICATION PROCEDURES (CONSULTATIONS AND CHALLENGE INSPECTIONS)

Sec.

717.1 Clarification procedures; challenge inspection requests pursuant to Article IX of the Convention.
717.2 Challenge inspections.
717.3 Samples.
717.4 Report of inspection-related costs.
717.5 Post-inspection activities.

AUTHORITY: 22 U.S.C. 6701 *et seq.*, 2681; E.O. 13128, 64 FR 36703, 3 CFR 1999 Comp., p. 199.

SOURCE: 71 FR 24929, Apr. 27, 2006, unless otherwise noted.

§ 717.1 Clarification procedures; challenge inspection requests pursuant to Article IX of the Convention.

(a) Article IX of the Convention sets forth procedures for clarification, between States Parties, of issues about compliance with the Convention. States Parties may attempt to resolve such issues through consultation between themselves or through the Organization for the Prohibition of Chemical Weapons (OPCW). A State Party may also request the OPCW to conduct an on-site challenge inspection of any facility or location in the territory or in any other place under the jurisdiction or control of any other State Party. Such an on-site challenge inspection request shall be for the sole purpose of clarifying and resolving any questions concerning possible non-compliance with the Convention.

(b) In the event that BIS receives a request for clarification, pursuant to Article IX of the Convention, concerning possible non-compliance with the CWC, any person or facility subject to the CWCR (parts 710 through 729 of this subchapter) that receives an official written request from BIS for clarification must, within five working days from receipt of such request, provide BIS with any relevant information required to respond to the OPCW or the State Party(ies) who requested clarification under Article IX. BIS will contact the person or facility subject to the Article IX clarification, as early as practicable, prior to issuing an official written request for clarification to the person or facility.

§ 717.2 Challenge inspections.

Persons or facilities, other than U.S. Government facilities as defined in §710.2(a) of the CWCR, may be subject to a challenge inspection by the OPCW concerning possible non-compliance with the requirements of the Convention, irrespective of whether or not they are required to submit declarations or reports under the CWCR. BIS will host and escort the international Inspection Team for challenge inspections in the United States of such persons or facilities.

(a) *Consent to challenge inspections; warrants for challenge inspections.* (1) The owner, operator, occupant or agent in charge of a facility may consent to a challenge inspection. The individual giving consent on behalf of the facility represents that he or she has the authority to make this decision for the facility. The facility must respond to the notice of inspection, which includes within it a request for consent to the inspection, within four hours of the facility's receipt of the notice of inspection from BIS.

(2) In instances where the owner, operator, occupant or agent in charge of a facility does not consent to a challenge inspection, BIS will assist the Department of Justice in seeking a criminal warrant as provided by the Act. The existence of a facility agreement does not in any way limit the right of the operator of the facility to withhold consent to a challenge inspection request.

(b) *Notice of challenge inspection.* Challenge inspections may be made only upon issuance of written notice by the United States National Authority (USNA) to the owner and to the operator, occupant or agent in charge of the premises. BIS will provide notice of inspection to the inspection point of contact at such time that a person or facility has been clearly established, if possible, and when notification is deemed appropriate. If the United States is unable to provide actual written notice to the owner and to the operator, occupant or agent in charge, BIS (or another appropriate agency, if

BIS is unable) may post notice prominently at the plant, plant site or other facility or location to be inspected.

(1) *Timing*. The OPCW will notify the USNA of a challenge inspection not less than 12 hours before the planned arrival of the Inspection Team at the U.S. point of entry. Written notice will be provided to the owner and to the operator, occupant, or agent in charge of the premises at any appropriate time determined by the USNA after receipt of notification from the OPCW Technical Secretariat.

(2)(i) *Content of notice*. The notice of inspection shall include all appropriate information provided by the OPCW to the United States National Authority concerning:

(A) The type of inspection;

(B) The basis for the selection of the facility or locations for the type of inspection sought;

(C) The time and date that the inspection will begin and the period covered by the inspection;

(D) The names and titles of the Inspection Team members; and

(E) All appropriate evidence or reasons provided by the requesting State Party for seeking the inspection.

(ii) In addition to appropriate information provided by the OPCW in its notification to the USNA, the notice of inspection that BIS delivers to the facility will request the facility to indicate whether it will consent to an inspection and will state whether an advance team is available to assist the site in preparation for the inspection. If an advance team is available, facilities that request advance team assistance are not required to reimburse the U.S. Government for costs associated with these activities. If a facility does not agree to provide consent to an inspection within four hours of receipt of the inspection notification, BIS will assist the Department of Justice in seeking a criminal warrant.

(c) *Period of inspection*. Challenge inspections will not exceed 84 hours, unless extended by agreement between the Inspection Team and the Host Team Leader.

(d) *Scope and conduct of inspections*—(1) *General*. Each inspection shall be limited to the purposes described in this section and conducted in the least intrusive manner, consistent with the effective and timely accomplishment of its purpose as provided in the Convention.

(2) *Scope of inspections*. If an owner, operator, occupant, or agent in charge of a facility consents to a challenge inspection, the inspection will be conducted under the authority of the Act and in accordance with the provisions of Article IX and applicable provisions of the Verification Annex of the Convention. If consent is not granted, the inspection will be conducted pursuant to the terms of a criminal warrant issued under the authority of the Act.

(3) *Hours of inspections*. Consistent with the provisions of the Convention, the Host Team will ensure, to the extent possible, that each inspection is commenced, conducted, and concluded during ordinary working hours, but no inspection shall be prohibited or otherwise disrupted from commencing, continuing or concluding during other hours.

(4) *Health and safety regulations and requirements*. In carrying out their activities, the Inspection Team and Host Team shall observe federal, state, and local health and safety regulations and health and safety requirements established at the inspection site, including those for the protection of controlled environments within a facility and for personal safety.

(5) *Pre-inspection briefing*. Upon arrival of the Inspection Team and the Host Team in the vicinity of the inspection site and before commencement of the inspection, facility representatives will provide the Inspection Team and the Host Team with a pre-inspection briefing concerning the facility, the activities carried out there, safety measures, and administrative and logistical arrangements necessary for the inspection, which may be aided with the use of maps and other documentation as deemed appropriate by the facility. The time spent for the briefing may not exceed three hours.

§ 717.3 Samples.

If requested by the Inspection Team, the owner, operator, occupant or agent in charge of a facility must provide a sample, as provided for in the Convention and the Act and consistent with

requirements set forth by the Director of the United States National Authority in 22 CFR part 103. This may be done by providing a sample, taken in the presence of the Inspection Team, to the U.S. Host Team leader, who will then release it to the Inspection Team for analysis. Analysis of the sample may be restricted to verifying the presence or absence of Schedule 1, 2, or 3 chemicals, or appropriate degradation products, unless agreed otherwise.

§ 717.4 Report of inspection-related costs.

Pursuant to section 309(b)(5) of the Act, any facility that has undergone any inspections pursuant to the CWCR during a given calendar year must report to BIS within 90 days of an inspection on its total costs related to that inspection. Although not required, such reports should identify categories of costs separately if possible, such as personnel costs (production-line, administrative, legal), costs of producing records, and costs associated with shutting down chemical production or processing during inspections, if applicable. This information should be reported to BIS on company letterhead at the address given in § 716.6(d) of the CWCR, with the following notation: ''AATTN: Report of Inspection-related Costs.''

§ 717.5 Post-inspection activities.

BIS will forward a copy of the final inspection report to the inspected facility for their review upon receipt from the OPCW. Facilities may submit comments on the final inspection report to BIS, and BIS will consider them, to the extent possible, when commenting on the final report. BIS will also send facilities a post-inspection letter detailing the issues that require follow-up action and the date on which the report on inspection-related costs (see § 717.4 of the CWCR) is due to BIS.

PART 718—CONFIDENTIAL BUSINESS INFORMATION

Sec.

718.1 Definition.
718.2 Identification of confidential business information.
718.3 Disclosure of confidential business information.
SUPPLEMENT NO. 1 TO PART 718—CONFIDENTIAL BUSINESS INFORMATION DECLARED OR REPORTED

AUTHORITY: 22 U.S.C. 6701 *et seq.;* E.O. 13128, 64 FR 36703, 3 CFR 1999 Comp., p. 199.

SOURCE: 71 FR 24929, Apr. 27, 2006, unless otherwise noted.

§ 718.1 Definition.

The Chemical Weapons Convention Implementation Act of 1998 (''the Act'') defines confidential business information as information included in categories specifically identified in sections 103(g)(1) and 304(e)(2) of the Act and other trade secrets as follows:

(a) Financial data;

(b) Sales and marketing data (other than shipment data);

(c) Pricing data;

(d) Personnel data;

(e) Research data;

(f) Patent data;

(g) Data maintained for compliance with environmental or occupational health and safety regulations;

(h) Data on personnel and vehicles entering and personnel and personal passenger vehicles exiting the site;

(i) Any chemical structure;

(j) Any plant design, process, technology or operating method;

(k) Any operating requirement, input, or result that identifies any type or quantity of chemicals used, processed or produced;

(l) Any commercial sale, shipment or use of a chemical; or

(m) Information that qualifies as a trade secret under 5 U.S.C. 552(b)(4) (Freedom of Information Act), provided such trade secret is obtained from a U.S. person or through the U.S. Government.

718.2 Identification of confidential business information.

(a) *General.* Certain confidential business information submitted to BIS in declarations and reports does not need to be specifically identified and marked by the submitter, as described in paragraph (b) of this section. Other

confidential business information submitted to BIS in declarations and reports and confidential business information provided to the Host Team during inspections must be identified by the inspected facility so that the Host Team can arrange appropriate marking and handling.

(b) *Confidential business information contained in declarations and reports.* (1) BIS has identified those data fields on the declaration and report forms that request ''confidential business information'' as defined by the Act. These data fields are identified in the table provided in supplement no. 1 to this part.

(2) You must specifically identify in a cover letter submitted with your declaration or report any additional information on a declaration or report form (i.e., information not provided in one of the data fields listed in the table included in supplement no. 1 to this part), including information provided in attachments to Form A or Form B, that you believe is confidential business information, as defined by the Act, and must describe how disclosure would likely result in competitive harm.

NOTE TO §718.2(b): BIS has also determined that descriptions of Schedule 1 facilities submitted with Initial Declarations as attachments to Form A contain confidential business information, as defined by the Act.

(c) *Confidential business information contained in advance notifications.* Information contained in advance notifications of exports and imports of Schedule 1 chemicals is not subject to the confidential business information provisions of the Act. You must identify information in your advance notifications of Schedule 1 imports that you consider to be privileged and confidential, and describe how disclosure would likely result in competitive harm. See §718.3(b) of the CWCR for provisions on disclosure to the public of such information by the U.S. Government.

(d) *Confidential business information related to inspections disclosed to, reported to, or otherwise acquired by, the U.S. Government.* (1) During inspections, certain confidential business information, as defined by the Act, may be disclosed to the Host Team. Facilities being inspected are responsible for identifying confidential business information to the Host Team, so that if it is disclosed to the Inspection Team, appropriate marking and handling can be arranged, in accordance with the provisions of the Convention (see §718.3(c)(1)(ii) of the CWCR). Confidential business information not related to the purpose of an inspection or not necessary for the accomplishment of an inspection, as determined by the Host Team, may be removed from sight, shrouded, or otherwise not disclosed.

(2) Before or after inspections, confidential business information related to an inspection that is contained in any documents or that is reported to, or otherwise acquired by, the U.S. Government, such as facility information for pre-inspection briefings, facility agreements, and inspection reports, must be identified by the facility so that it may be appropriately marked and handled. If the U.S. Government creates derivative documents from such documents or reported information, they will also be marked and handled as confidential business information.

§718.3 Disclosure of confidential business information.

(a) *General.* Confidentiality of information will be maintained by BIS consistent with the non-disclosure provisions of the Act, the Export Administration Regulations (15 CFR parts 730 through 774), the International Traffic in Arms Regulations (22 CFR parts 120 through 130), and applicable exemptions under the Freedom of Information Act, as appropriate.

(b) *Disclosure of confidential business information contained in advance notifications.* Information contained in advance notifications of exports and imports of Schedule 1 chemicals is not subject to the confidential business information provisions of the Act. Disclosure of such information will be in accordance with the provisions of the relevant statutory and regulatory authorities as follows:

(1) *Exports of Schedule 1 chemicals.* Confidentiality of all information contained in these advance notifications will be maintained consistent with the non-disclosure provisions of the Export Administration Regulations (15 CFR

parts 730 through 774), the International Traffic in Arms Regulations (22 CFR parts 120 through 130), and applicable exemptions under the Freedom of Information Act, as appropriate; and

(2) *Imports of Schedule 1 chemicals.* Confidentiality of information contained in these advance notifications will be maintained pursuant to applicable exemptions under the Freedom of Information Act.

(c) *Disclosure of confidential business information pursuant to § 404(b) of the Act*—(1) *Disclosure to the Organization for the Prohibition of Chemical Weapons (OPCW).* (i) As provided by Section 404(b)(1) of the Act, the U.S. Government will disclose or otherwise provide confidential business information to the Technical Secretariat of the OPCW or to other States Parties to the Convention, in accordance with provisions of the Convention, particularly with the provisions of the Annex on the Protection of Confidential Information (Confidentiality Annex).

(ii) *Convention provisions.* (A) The Convention provides that States Parties may designate information submitted to the Technical Secretariat as confidential, and requires the OPCW to limit access to, and prevent disclosure of, information so designated, except that the OPCW may disclose certain confidential information submitted in declarations to other States Parties if requested. The OPCW has developed a classification system whereby States Parties may designate the information they submit in their declarations as ''restricted,'' ''protected,'' or ''highly protected,'' depending on the sensitivity of the information. Other States Parties are obligated, under the Convention, to store and restrict access to information which they receive from the OPCW in accordance with the level of confidentiality established for that information.

(B) The OPCW Inspection Team members are prohibited, under the terms of their employment contracts and pursuant to the Confidentiality Annex of the Convention, from disclosing to any unauthorized persons, during their employment and for five years after termination of their employment, any confidential information coming to their knowledge or into their possession in the performance of their official duties.

(iii) *U.S. Government designation of information to the Technical Secretariat.* It is the policy of the U.S. Government to designate all facility information it provides to the Technical Secretariat in declarations, reports and Schedule 1 advance notifications as ''protected.'' It is the policy of the U.S. Government to designate confidential business information that it discloses to Inspection Teams during inspections as ''protected'' or ''highly protected,'' depending on the sensitivity of the information. The Technical Secretariat is responsible for storing and limiting access to any confidential business information contained in a document according to its established procedures.

(2) *Disclosure to Congress.* Section 404(b)(2) of the Act provides that the U.S. Government must disclose confidential business information to any committee or subcommittee of Congress with appropriate jurisdiction upon the written request of the chairman or ranking minority member of such committee or subcommittee. No such committee or subcommittee, and no member and no staff member of such committee or subcommittee, may disclose such information or material except as otherwise required or authorized by law.

(3) *Disclosure to other Federal agencies for law enforcement actions and disclosure in enforcement proceedings under the Act.* Section 404(b)(3) of the Act provides that the U.S. Government must disclose confidential business information to other Federal agencies for enforcement of the Act or any other law, and must disclose such information when relevant in any proceeding under the Act. Disclosure will be made in such manner as to preserve confidentiality to the extent practicable without impairing the proceeding. Section 719.14(b) of the CWCR provides that all hearings will be closed, unless the Administrative Law Judge for good cause shown determines otherwise. Section 719.20 of the CWCR provides that parties may request that the administrative law judge segregate and restrict access to confidential business information contained in material in the record of an enforcement proceeding.

(4) *Disclosure to the public; national interest determination.* Section 404(c) of the Act provides that confidential business information, as defined by the Act, that is in the possession of the U.S. Government, is exempt from public disclosure in response to a Freedom of Information Act request, except when such disclosure is determined to be in the national interest.

(i) *National interest determination.* The United States National Authority (USNA), in coordination with the CWC interagency group, shall determine on a case-by-case basis if disclosure of confidential business information in response to a Freedom of Information Act request is in the national interest.

(ii) *Notification of intent to disclose pursuant to a national interest determination.* The Act provides for notification to the affected person of intent to disclose confidential business information based on the national interest, unless such notification of intent to disclose is contrary to national security or law enforcement needs. If, after coordination with the agencies that constitute the CWC interagency group, the USNA does not determine that such notification of intent to disclose is contrary to national security or law enforcement needs, the USNA will notify the person that submitted the information and the person to whom the information pertains of the intent to disclose the information.

[71 FR 24929, Apr. 27, 2006, as amended at 73 FR 78183, Dec. 22, 2008]

SUPPLEMENT NO. 1 TO PART 718—CONFIDENTIAL BUSINESS INFORMATION DECLARED OR REPORTED*

	Fields containing confidential business information
Schedule 1 Forms:	
Certification Form	NONE.
Form 1–1	NONE.
Form 1–2	All fields.
Form 1–2A	All fields.
Form 1–2B	All fields.
Form 1–3	All fields.
Form 1–4	All fields.
Schedule 2 Forms:	
Certification Form	NONE.
Form 2–1	NONE.
Form 2–2	Question 2–2.9
Form 2–3	All fields.
Form 2–3A	All fields.
Form 2–3B	All fields.
Form 2–3C	All fields.
Form 2–4	All fields.
Schedule 3 Forms:	
Certification Form	NONE.
Form 3–1	NONE.
Form 3–2	NONE.
Form 3–3	All fields.
Form 3–4	All fields.
Unscheduled Discrete Organic Chemicals Forms:	
Certification Form	NONE.
Form UDOC	NONE.
FORMS A and B and attachments (all Schedules and UDOCs).	Case-by-case; must be identified by submitter.

*This table lists those data fields on the Declaration and Report Forms that request ''confidential business information'' (CBI) as defined by the Act (sections 103(g) and 304(e)(2)). As provided by section 404(a) of the Act, CBI is exempt from disclosure in response to a Freedom of Information Act (FOIA) request under sections 552(b)(3) and 552(b)(4) (5 U.S.C.A. 552(b)(3)–(4)), unless a determination is made, pursuant to section 404(c) of the Act, that such disclosure is in the national interest. Other FOIA exemptions to disclosure may also apply. You must identify CBI provided in Form A and/or Form B attachments, and provide the reasons supporting your claim of confidentiality, except that Schedule 1 facility technical descriptions submitted with initial declarations are always considered to include CBI. If you believe that information you are submitting in a data field marked ''none'' in the Table is CBI, as defined by the Act, you must identify the specific information and provide the reasons supporting your claim of confidentiality in a cover letter.

PART 719—ENFORCEMENT

Sec.
719.1 Scope and definitions.
719.2 Violations of the Act subject to administrative and criminal enforcement proceedings.
719.3 Violations of the IEEPA subject to judicial enforcement proceedings.
719.4 Violations and sanctions under the Act not subject to proceedings under the CWCR.
719.5 Initiation of administrative proceedings.
719.6 Request for hearing and answer.
719.7 Representation.
719.8 Filing and service of papers other than the NOVA.
719.9 Summary decision.
719.10 Discovery.
719.11 Subpoenas.
719.12 Matters protected against disclosure.
719.13 Prehearing conference.
719.14 Hearings.
719.15 Procedural stipulations.
719.16 Extension of time.
719.17 Post-hearing submissions.
719.18 Decisions.
719.19 Settlement.
719.20 Record for decision.
719.21 Payment of final assessment.
719.22 Reporting a violation.

AUTHORITY: 22 U.S.C. 6701 *et seq.;* 50 U.S.C. 1601 *et seq.;* 50 U.S.C. 1701 *et seq.;* E.O. 12938, 59

FR 59099, 3 CFR 1994, Comp., p. 950; E.O. 13128, 64 FR 36703, 3 CFR 1999 Comp., p. 199.

SOURCE: 71 FR 24929, Apr. 27, 2006, unless otherwise noted.

§ 719.1 Scope and definitions.

(a) *Scope*. This part 719 describes the various sanctions that apply to violations of the Act and the CWCR. It also establishes detailed administrative procedures for certain violations of the Act. The three categories of violations are as follows:

(1) *Violations of the Act subject to administrative and criminal enforcement proceedings*. Section 719.2 of the CWCR sets forth violations for which the statutory basis is the Act. BIS investigates these violations and, for administrative proceedings, prepares charges, provides legal representation to the U.S. Government, negotiates settlements, and makes recommendations to officials of the Department of State with respect to the initiation and resolution of proceedings. The administrative procedures applicable to these violations are found in §§719.5 through 719.22 of the CWCR. The Department of State gives notice of initiation of administrative proceedings and issues orders imposing penalties pursuant to 22 CFR part 103, subpart C.

(2) *Violations of the International Emergency Economic Powers Act (IEEPA) subject to judicial enforcement proceedings*. Section 719.3 of the CWCR sets forth violations of the Chemical Weapons Convention for which the statutory basis is the IEEPA. BIS refers these violations to the Department of Justice for civil or criminal judicial enforcement.

(3) *Violations and sanctions under the Act not subject to proceedings under the CWCR*. Section 719.4 of the CWCR sets forth violations and sanctions under the Act that are not violations of the CWCR and that are not subject to proceedings under the CWCR. This section is included solely for informational purposes. BIS may assist in investigations of these violations, but has no authority to initiate any enforcement action under the CWCR.

NOTE TO §719.1(a): This part 719 does not apply to violations of the export requirements imposed pursuant to the Chemical Weapons Convention and set forth in the Export Administration Regulations (EAR) (15 CFR parts 730 through 774) and in the International Traffic in Arms Regulations (ITAR) (22 CFR parts 120 through 130).

(b) *Definitions*. The following are definitions of terms as used only in parts 719 and 720 of the CWCR. For definitions of terms applicable to parts 710 through 718 and parts 721 and 722 of the CWCR, see part 710 of the CWCR.

Act (The). The Chemical Weapons Convention Implementation Act of 1998 (22 U.S.C. 6701–6777).

Assistant Secretary for Export Enforcement. The Assistant Secretary for Export Enforcement, Bureau of Industry and Security, United States Department of Commerce.

Final decision. A decision or order assessing a civil penalty, or otherwise disposing of or dismissing a case, which is not subject to further administrative review, but which may be subject to collection proceedings or judicial review in an appropriate Federal court as authorized by law.

IEEPA. The International Emergency Economic Powers Act, as amended (50 U.S.C. 1701–1706).

Office of Chief Counsel. The Office of Chief Counsel for Industry and Security, United States Department of Commerce.

Report. For purposes of parts 719 and 720 of the CWCR, the term ''report'' means any declaration, report, or advance notification required under parts 712 through 715 of the CWCR.

Respondent. Any person named as the subject of a letter of intent to charge, or a Notice of Violation and Assessment (NOVA) and proposed order.

Under Secretary, Bureau of Industry and Security. The Under Secretary, Bureau of Industry and Security, United States Department of Commerce.

[71 FR 24929, Apr. 27, 2006, as amended at 73 FR 78183, Dec. 22, 2008]

§ 719.2 Violations of the Act subject to administrative and criminal enforcement proceedings.

(a) *Violations*—(1) *Refusal to permit entry or inspection*. No person may willfully fail or refuse to permit entry or inspection, or disrupt, delay or otherwise impede an inspection, authorized by the Act.

(2) *Failure to establish or maintain records*. No person may willfully fail or refuse:

(i) To establish or maintain any record required by the Act or the CWCR; or

(ii) To submit any report, notice, or other information to the United States Government in accordance with the Act or the CWCR; or

(iii) To permit access to or copying of any record required to be established or maintained by the Act or the CWCR, including any record that is exempt from disclosure under the Act or the CWCR.

(b) *Civil penalties*—(1) *Civil penalty for refusal to permit entry or inspection*. Any person that is determined to have willfully failed or refused to permit entry or inspection, or to have disrupted, delayed or otherwise impeded an authorized inspection, as set forth in paragraph (a)(1) of this section, shall pay a civil penalty in an amount not to exceed $25,000 for each violation. Each day the violation continues constitutes a separate violation.

(2) *Civil penalty for failure to establish or maintain records*. Any person that is determined to have willfully failed or refused to establish or maintain any record or submit any report, notice, or other information required by the Act or the CWCR, or to have willfully failed or refused to permit access to or copying of any record, including any record exempt from disclosure under the Act or the CWCR as set forth in paragraph (a)(2) of this section, shall pay a civil penalty in an amount not to exceed $5,000 for each violation.

(c) *Criminal penalty*. Any person that knowingly violates the Act by willfully failing or refusing to permit entry or inspection authorized by the Act; or by willfully disrupting, delaying or otherwise impeding an inspection authorized by the Act; or by willfully failing or refusing to establish or maintain any required record, or to submit any required report, notice, or other information; or by willfully failing or refusing to permit access to or copying of any record, including records exempt from disclosure under the Act or the CWCR, shall, in addition to or in lieu of any civil penalty that may be imposed, be fined under Title 18 of the United States Code, be imprisoned for not more than one year, or both.

(d) *Denial of export privileges*. Any person in the United States or any U.S. national may be subject to a denial of export privileges after notice and opportunity for hearing pursuant to part 720 of the CWCR if that person has been convicted under Title 18, section 229 of the United States Code.

§ 719.3 Violations of the IEEPA subject to judicial enforcement proceedings.

(a) *Violations*—(1) *Import restrictions involving Schedule 1 chemicals*. Except as otherwise provided in § 712.2 of the CWCR, no person may import any Schedule 1 chemical (See supplement no. 1 to part 712 of the CWCR) unless:

(i) The import is from a State Party;

(ii) The import is for research, medical, pharmaceutical, or protective purposes;

(iii) The import is in types and quantities strictly limited to those that can be justified for such purposes; and

(iv) The importing person has notified BIS not less than 45 calendar days before the import pursuant to § 712.6 of the CWCR.

(2) *Import restrictions involving Schedule 2 chemicals*. Except as otherwise provided in § 713.1 of the CWCR, no person may, on or after April 29, 2000, import any Schedule 2 chemical (see supplement no. 1 to part 713 of the CWCR) from any destination other than a State Party.

(b) *Civil penalty*. A civil penalty not to exceed $50,000 may be imposed in accordance with this part on any person for each violation of this section.[1]

(c) *Criminal penalty*. Whoever willfully violates paragraph (a)(1) or (2) of this section shall, upon conviction, be fined not more than $50,000, or, if a natural person, imprisoned for not more than ten years, or both; and any officer, director, or agent of any corporation who knowingly participates in

[1] The maximum civil penalty allowed under the International Emergency Economic Powers Act is $50,000 for any violation committed on or after October 23, 1996 (15 CFR 6.4(a)(5)).

such violation may be punished by like fine, imprisonment, or both.[2]

[71 FR 24929, Apr. 27, 2006, as amended at 72 FR 14410, Mar. 28, 2007]

§ 719.4 Violations and sanctions under the Act not subject to proceedings under the CWCR.

(a) *Criminal penalties for development or use of a chemical weapon*. Any person who violates 18 U.S.C. 229 shall be fined, or imprisoned for any term of years, or both. Any person who violates 18 U.S.C. 229 and by whose action the death of another person is the result shall be punished by death or imprisoned for life.

(b) *Civil penalty for development or use of a chemical weapon*. The Attorney General may bring a civil action in the appropriate United States district court against any person who violates 18 U.S.C. 229 and, upon proof of such violation by a preponderance of the evidence, such person shall be subject to pay a civil penalty in an amount not to exceed $100,000 for each such violation.

(c) *Criminal forfeiture*. (1) Any person convicted under section 229A(a) of Title 18 of the United States Code shall forfeit to the United States irrespective of any provision of State law:

(i) Any property, real or personal, owned, possessed, or used by a person involved in the offense;

(ii) Any property constituting, or derived from, and proceeds the person obtained, directly or indirectly, as the result of such violation; and

(iii) Any of the property used in any manner or part, to commit, or to facilitate the commission of, such violation.

(2) In lieu of a fine otherwise authorized by section 229A(a) of Title 18 of the United States Code, a defendant who derived profits or other proceeds from an offense may be fined not more than twice the gross profits or other proceeds.

[2] Alternatively, sanctions may be imposed under 18 U.S.C. 3571, a criminal code provision that establishes a maximum criminal fine for a felony that is the greatest of: (1) The amount provided by the statute that was violated; (2) an amount not more than $250,000 for an individual, or not more than $500,000 for an organization; or (3) an amount based on gain or loss from the offense.

(d) *Injunction*. (1) The United States may, in a civil action, obtain an injunction against:

(i) The conduct prohibited under section 229 or 229C of Title 18 of the United States Code; or

(ii) The preparation or solicitation to engage in conduct prohibited under section 229 or 229D of Title 18 of the United States Code.

(2) In addition, the United States may, in a civil action, restrain any violation of section 306 or 405 of the Act, or compel the taking of any action required by or under the Act or the Convention.

§ 719.5 Initiation of administrative proceedings.

(a) *Letter of intent to charge*. The Director of the Office of Export Enforcement, Bureau of Industry and Security, may notify a respondent by letter of the intent to charge. This letter of intent to charge will advise a respondent that BIS has conducted an investigation and intends to recommend that the Secretary of State issue a Notice of Violation and Assessment (NOVA). The letter of intent to charge will be accompanied by a draft NOVA and proposed order, and will give the respondent a specified period of time to contact BIS to discuss settlement of the allegations set forth in the draft NOVA. An administrative enforcement proceeding is not initiated by a letter of intent to charge. If the respondent does not contact BIS within the specified time, or if the respondent requests it, BIS will make its request for initiation of an administrative enforcement proceeding to the Secretary of State in accordance with paragraph (b) of this section.

(b) *Request for Notice of Violation and Assessment (NOVA)*. The Director of the Office of Export Enforcement, Bureau of Industry and Security, may request that the Secretary of State initiate an administrative enforcement proceeding under this § 719.5 and 22 CFR 103.7. If the request is in accordance with applicable law, the Secretary of State will initiate an administrative enforcement proceeding by issuing a NOVA. The Office of Chief Counsel shall serve the NOVA as directed by the Secretary of State.

(c) *Content of NOVA*. The NOVA shall constitute a formal complaint, and will set forth the basis for the issuance of the proposed order. It will set forth the alleged violation(s) and the essential facts with respect to the alleged violation(s), reference the relevant statutory, regulatory or other provisions, and state the amount of the civil penalty to be assessed. The NOVA will inform the respondent of the right to request a hearing pursuant to §719.6 of the CWCR, inform the respondent that failure to request such a hearing shall result in the proposed order becoming final and unappealable on signature of the Secretary of State, and provide payment instructions. A copy of the regulations that govern the administrative proceedings will accompany the NOVA.

(d) *Proposed order*. A proposed order shall accompany every NOVA, letter of intent to charge, and draft NOVA. It will briefly set forth the substance of the alleged violation(s) and the statutory, regulatory or other provisions violated. It will state the amount of the civil penalty to be assessed.

(e) *Notice*. Notice of the intent to charge or of the initiation of formal proceedings shall be given to the respondent (or respondent's agent for service of process, or attorney) by sending relevant documents, via first class mail, facsimile, or by personal delivery.

§719.6 Request for hearing and answer.

(a) *Time to answer*. If the respondent wishes to contest the NOVA and proposed order issued by the Secretary of State, the respondent must request a hearing in writing within 15 business days from the postmarked date of the NOVA. If the respondent requests a hearing, the respondent must answer the NOVA within 30 days from the date of the request for hearing. The request for hearing and answer must be filed with the Administrative Law Judge (ALJ), along with a copy of the NOVA and proposed order, and served on the Office of Chief Counsel, and any other address(es) specified in the NOVA, in accordance with §719.8 of the CWCR.

(b) *Content of answer*. The respondent's answer must be responsive to the NOVA and proposed order, and must fully set forth the nature of the respondent's defense(s). The answer must specifically admit or deny each separate allegation in the NOVA; if the respondent is without knowledge, the answer will so state and will operate as a denial. Failure to deny or controvert a particular allegation will be deemed an admission of that allegation. The answer must also set forth any additional or new matter the respondent contends supports a defense or claim of mitigation. Any defense or partial defense not specifically set forth in the answer shall be deemed waived, and evidence thereon may be refused, except for good cause shown.

(c) *English required*. The request for hearing, answer, and all other papers and documentary evidence must be submitted in English.

(d) *Waiver*. The failure of the respondent to file a request for a hearing and an answer within the times provided constitutes a waiver of the respondent's right to appear and contest the allegations set forth in the NOVA and proposed order. If no hearing is requested and no answer is provided, the proposed order will be signed and become final and unappealable.

§719.7 Representation.

A respondent individual may appear and participate in person, a corporation by a duly authorized officer or employee, and a partnership by a partner. If a respondent is represented by counsel, counsel shall be a member in good standing of the bar of any State, Commonwealth or Territory of the United States, or of the District of Columbia, or be licensed to practice law in the country in which counsel resides, if not the United States. The U.S. Government will be represented by the Office of Chief Counsel. A respondent personally, or through counsel or other representative who has the power of attorney to represent the respondent, shall file a notice of appearance with the ALJ, or, in cases where settlement negotiations occur before any filing with the ALJ, with the Office of Chief Counsel.

§ 719.8 Filing and service of papers other than the NOVA.

(a) *Filing.* All papers to be filed with the ALJ shall be addressed to ''CWC Administrative Enforcement Proceedings'' at the address set forth in the NOVA, or such other place as the ALJ may designate. Filing by United States mail (first class postage prepaid), by express or equivalent parcel delivery service, via facsimile, or by hand delivery, is acceptable. Filing from a foreign country shall be by airmail or via facsimile. A copy of each paper filed shall be simultaneously served on all parties.

(b) *Service.* Service shall be made by United States mail (first class postage prepaid), by express or equivalent parcel delivery service, via facsimile, or by hand delivery of one copy of each paper to each party in the proceeding. The Department of State is a party to cases under the CWCR, but will be represented by the Office of Chief Counsel. Therefore, service on the government party in all proceedings shall be addressed to Office of Chief Counsel for Industry and Security, U.S. Department of Commerce, 14th Street and Constitution Avenue, NW., Room H–3839, Washington, DC 20230, or sent via facsimile to (202) 482–0085. Service on a respondent shall be to the address to which the NOVA and proposed order was sent, or to such other address as the respondent may provide. When a party has appeared by counsel or other representative, service on counsel or other representative shall constitute service on that party.

(c) *Date.* The date of filing or service is the day when the papers are deposited in the mail or are delivered in person, by delivery service, or by facsimile. Refusal by the person to be served, or by the person's agent or attorney, of service of a document or other paper will be considered effective service of the document or other paper as of the date of such refusal.

(d) *Certificate of service.* A certificate of service signed by the party making service, stating the date and manner of service, shall accompany every paper, other than the NOVA and proposed order, filed and served on the parties.

(e) *Computation of time.* In computing any period of time prescribed or allowed by this part, the day of the act, event, or default from which the designated period of time begins to run is not to be included. The last day of the period so computed is to be included unless it is a Saturday, a Sunday, or a legal holiday (as defined in Rule 6(a) of the Federal Rules of Civil Procedure), in which case the period runs until the end of the next day which is neither a Saturday, a Sunday, nor a legal holiday. Intermediate Saturdays, Sundays, and legal holidays are excluded from the computation when the period of time prescribed or allowed is 7 days or less.

§ 719.9 Summary decision.

The ALJ may render a summary decision disposing of all or part of a proceeding on the motion of any party to the proceeding, provided that there is no genuine issue as to any material fact and the party is entitled to summary decision as a matter of law.

§ 719.10 Discovery.

(a) *General.* The parties are encouraged to engage in voluntary discovery regarding any matter, not privileged, which is relevant to the subject matter of the pending proceeding. The provisions of the Federal Rules of Civil Procedure relating to discovery apply to the extent consistent with this part and except as otherwise provided by the ALJ or by waiver or agreement of the parties. The ALJ may make any order which justice requires to protect a party or person from annoyance, embarrassment, oppression, or undue burden or expense. These orders may include limitations on the scope, method, time and place of discovery, and provisions for protecting the confidentiality of classified or otherwise sensitive information, including Confidential Business Information (CBI) as defined by the Act.

(b) *Interrogatories and requests for admission or production of documents.* A party may serve on any party interrogatories, requests for admission, or requests for production of documents for inspection and copying, and a party concerned may apply to the ALJ for such enforcement or protective order as that party deems warranted with respect to such discovery. The service of

a discovery request shall be made at least 20 days before the scheduled date of the hearing unless the ALJ specifies a shorter time period. Copies of interrogatories, requests for admission and requests for production of documents and responses thereto shall be served on all parties and a copy of the certificate of service shall be filed with the ALJ. Matters of fact or law of which admission is requested shall be deemed admitted unless, within a period designated in the request (at least 10 days after service, or within such additional time as the ALJ may allow), the party to whom the request is directed serves upon the requesting party a sworn statement either denying specifically the matters of which admission is requested or setting forth in detail the reasons why the party to whom the request is directed cannot truthfully either admit or deny such matters.

(c) *Depositions*. Upon application of a party and for good cause shown, the ALJ may order the taking of the testimony of any person by deposition and the production of specified documents or materials by the person at the deposition. The application shall state the purpose of the deposition and set forth the facts sought to be established through the deposition.

(d) *Enforcement*. The ALJ may order a party to answer designated questions, to produce specified documents or things or to take any other action in response to a proper discovery request. If a party does not comply with such an order, the ALJ may make a determination or enter any order in the proceeding as the ALJ deems reasonable and appropriate. The ALJ may strike related charges or defenses in whole or in part or may take particular facts relating to the discovery request to which the party failed or refused to respond as being established for purposes of the proceeding in accordance with the contentions of the party seeking discovery. In addition, enforcement by any district court of the United States in which venue is proper may be sought as appropriate.

§ 719.11 Subpoenas.

(a) *Issuance*. Upon the application of any party, supported by a satisfactory showing that there is substantial reason to believe that the evidence would not otherwise be available, the ALJ may issue subpoenas to any person requiring the attendance and testimony of witnesses and the production of such books, records or other documentary or physical evidence for the purpose of the hearing, as the ALJ deems relevant and material to the proceedings, and reasonable in scope. Witnesses shall be paid the same fees and mileage that are paid to witnesses in the courts of the United States. In case of contempt, challenge or refusal to obey a subpoena served upon any person pursuant to this paragraph, any district court of the United States, in which venue is proper, has jurisdiction to issue an order requiring any such person to comply with such subpoena. Any failure to obey such order of the court is punishable by the court as a contempt thereof.

(b) *Service*. Subpoenas issued by the ALJ may be served by any of the methods set forth in § 719.8(b) of the CWCR.

(c) *Timing*. Applications for subpoenas must be submitted at least 10 days before the scheduled hearing or deposition, unless the ALJ determines, for good cause shown, that extraordinary circumstances warrant a shorter time.

§ 719.12 Matters protected against disclosure.

(a) *Protective measures*. The ALJ may limit discovery or introduction of evidence or issue such protective or other orders as in the ALJ's judgment may be needed to prevent undue disclosure of classified or sensitive documents or information, including Confidential Business Information as defined by the Act. Where the ALJ determines that documents containing classified or sensitive matter must be made available to a party in order to avoid prejudice, the ALJ may direct the other party to prepare an unclassified and nonsensitive summary or extract of the documents. The ALJ may compare the extract or summary with the original to ensure that it is supported by the source document and that it omits only so much as must remain undisclosed. The summary or extract may be admitted as evidence in the record.

(b) *Arrangements for access.* If the ALJ determines that the summary procedure outlined in paragraph (a) of this section is unsatisfactory, and that classified or otherwise sensitive matter must form part of the record in order to avoid prejudice to a party, the ALJ may provide the parties opportunity to make arrangements that permit a party or a representative to have access to such matter without compromising sensitive information. Such arrangements may include obtaining security clearances or giving counsel for a party access to sensitive information and documents subject to assurances against further disclosure, including a protective order, if necessary.

§ 719.13 Prehearing conference.

(a) On the ALJ's own motion, or on request of a party, the ALJ may direct the parties to participate in a prehearing conference, either in person or by telephone, to consider:

(1) Simplification of issues;

(2) The necessity or desirability of amendments to pleadings;

(3) Obtaining stipulations of fact and of documents to avoid unnecessary proof; or

(4) Such other matters as may expedite the disposition of the proceedings.

(b) The ALJ may order the conference proceedings to be recorded electronically or taken by a reporter, transcribed and filed with the ALJ.

(c) If a prehearing conference is impracticable, the ALJ may direct the parties to correspond with the ALJ to achieve the purposes of such a conference.

(d) The ALJ will prepare a summary of any actions agreed on or taken pursuant to this section. The summary will include any written stipulations or agreements made by the parties.

§ 719.14 Hearings.

(a) *Scheduling.* Upon receipt of a written and dated request for a hearing, the ALJ shall, by agreement with all the parties or upon notice to all parties of at least 30 days, schedule a hearing. All hearings will be held in Washington, DC, unless the ALJ determines, for good cause shown, that another location would better serve the interest of justice.

(b) *Hearing procedure.* Hearings will be conducted in a fair and impartial manner by the ALJ. All hearings will be closed, unless the ALJ for good cause shown determines otherwise. The rules of evidence prevailing in courts of law do not apply, and all evidentiary material deemed by the ALJ to be relevant and material to the proceeding and not unduly repetitious will be received and given appropriate weight, except that any evidence of settlement which would be excluded under Rule 408 of the Federal Rules of Evidence is not admissible. Witnesses will testify under oath or affirmation, and shall be subject to cross-examination.

(c) *Testimony and record.* (1) A verbatim record of the hearing and of any other oral proceedings will be taken by reporter or by electronic recording, and filed with the ALJ. If any party wishes to obtain a written copy of the transcript, that party shall pay the costs of transcription. The parties may share the costs if both wish a transcript.

(2) Upon such terms as the ALJ deems just, the ALJ may direct that the testimony of any person be taken by deposition and may admit an affidavit or declaration as evidence, provided that any affidavits or declarations have been filed and served on the parties sufficiently in advance of the hearing to permit a party to file and serve an objection thereto on the grounds that it is necessary that the affiant or declarant testify at the hearing and be subject to cross-examination.

(d) *Failure to appear.* If a party fails to appear in person or by counsel at a scheduled hearing, the hearing may nevertheless proceed. The party's failure to appear will not affect the validity of the hearing or any proceeding or action taken thereafter.

§ 719.15 Procedural stipulations.

Unless otherwise ordered and subject to § 719.16 of the CWCR, a written stipulation agreed to by all parties and filed with the ALJ will modify the procedures established by this part.

§ 719.16 Extension of time.

The parties may extend any applicable time limitation by stipulation filed

with the ALJ before the time limitation expires, or the ALJ may, on the ALJ's own initiative or upon application by any party, either before or after the expiration of any applicable time limitation, extend the time , except that the requirement that a hearing be demanded within 15 days, and the requirement that a final agency decision be made within 30 days, may not be modified.

§ 719.17 Post-hearing submissions.

All parties shall have the opportunity to file post-hearing submissions that may include findings of fact and conclusions of law, supporting evidence and legal arguments, exceptions to the ALJ's rulings or to the admissibility of evidence, and proposed orders and settlements.

§ 719.18 Decisions.

(a) *Initial decision.* After considering the entire record in the case, the ALJ will issue an initial decision based on a preponderance of the evidence. The decision will include findings of fact, conclusions of law, and a decision based thereon as to whether the respondent has violated the Act. If the ALJ finds that the evidence of record is insufficient to sustain a finding that a violation has occurred with respect to one or more allegations, the ALJ shall order dismissal of the allegation(s) in whole or in part, as appropriate. If the ALJ finds that one or more violations have been committed, the ALJ shall issue an order imposing administrative sanctions.

(b) *Factors considered in assessing penalties.* In determining the amount of a civil penalty, the ALJ shall take into account the nature, circumstances, extent and gravity of the violation(s), and, with respect to the respondent, the respondent's ability to pay the penalty, the effect of a civil penalty on the respondent's ability to continue to do business, the respondent's history of prior violations, the respondent's degree of culpability, the existence of an internal compliance program, and such other matters as justice may require.

(c) *Certification of initial decision.* The ALJ shall immediately certify the initial decision and order to the Executive Director of the Office of Legal Adviser, U.S. Department of State, 2201 C Street, NW., Room 5519, Washington, DC 20520, to the Office of Chief Counsel at the address in § 719.8, and to the respondent, by personal delivery or overnight mail.

(d) *Review of initial decision.* The initial decision shall become the final agency decision and order unless, within 30 days, the Secretary of State modifies or vacates it, with or without conditions, in accordance with 22 CFR 103.8.

§ 719.19 Settlement.

(a) *Settlements before issuance of a NOVA.* When the parties have agreed to a settlement of the case, the Director of the Office of Export Enforcement will recommend the settlement to the Secretary of State, forwarding a proposed settlement agreement and order, which, in accordance with 22 CFR 103.9(a), the Secretary of State will approve and sign if the recommended settlement is in accordance with applicable law.

(b) *Settlements following issuance of a NOVA.* The parties may enter into settlement negotiations at any time during the time a case is pending before the ALJ. If necessary, the parties may extend applicable time limitations or otherwise request that the ALJ stay the proceedings while settlement negotiations continue. When the parties have agreed to a settlement of the case, the Office of Chief Counsel will recommend the settlement to the Secretary of State, forwarding a proposed settlement agreement and order, which, in accordance with 22 CFR 103.9(b), the Secretary will approve and sign if the recommended settlement is in accordance with applicable law.

(c) *Settlement scope.* Any respondent who agrees to an order imposing any administrative sanction does so solely for the purpose of resolving the claims in the administrative enforcement proceeding brought under this part. This reflects the fact that the government officials involved have neither the authority nor the responsibility for initiating, conducting, settling, or otherwise disposing of criminal proceedings. That authority and responsibility are vested in the Attorney General and the Department of Justice.

(d) *Finality*. Cases that are settled may not be reopened or appealed.

§ 719.20 Record for decision.

(a) *The record*. The transcript of hearings, exhibits, rulings, orders, all papers and requests filed in the proceedings, and, for purposes of any appeal under § 719.18 or under 22 CFR 103.8, the decision of the ALJ and such submissions as are provided for under § 719.18 or 22 CFR 103.8 will constitute the record and the exclusive basis for decision. When a case is settled, the record will consist of any and all of the foregoing, as well as the NOVA or draft NOVA, settlement agreement, and order.

(b) *Restricted access*. On the ALJ's own motion, or on the motion of any party, the ALJ may direct that there be a restricted access portion of the record for any material in the record to which public access is restricted by law or by the terms of a protective order entered in the proceedings. A party seeking to restrict access to any portion of the record is responsible, prior to the close of the proceeding, for submitting a version of the document(s) proposed for public availability that reflects the requested deletion. The restricted access portion of the record will be placed in a separate file and the file will be clearly marked to avoid improper disclosure and to identify it as a portion of the official record in the proceedings. The ALJ may act at any time to permit material that becomes declassified or unrestricted through passage of time to be transferred to the unrestricted access portion of the record.

(c) *Availability of documents*—(1) *Scope*. All NOVAs and draft NOVAs, answers, settlement agreements, decisions and orders disposing of a case will be displayed on the BIS Freedom of Information Act (FOIA) Web site, at *http://www.bis.doc.gov/foia*, which is maintained by the Office of Administration, Bureau of Industry and Security, U.S. Department of Commerce. This office does not maintain a separate inspection facility. The complete record for decision, as defined in paragraphs (a) and (b) of this section will be made available on request.

(2) *Timing*. The record for decision will be available only after the final administrative disposition of a case. Parties may seek to restrict access to any portion of the record under paragraph (b) of this section.

§ 719.21 Payment of final assessment.

(a) *Time for payment*. Full payment of the civil penalty must be made within 30 days of the effective date of the order or within such longer period of time as may be specified in the order. Payment shall be made in the manner specified in the NOVA.

(b) *Enforcement of order*. The government party may, through the Attorney General, file suit in an appropriate district court if necessary to enforce compliance with a final order issued under the CWCR. This suit will include a claim for interest at current prevailing rates from the date payment was due or ordered.

(c) *Offsets*. The amount of any civil penalty imposed by a final order may be deducted from any sum(s) owed by the United States to a respondent.

§ 719.22 Reporting a violation.

If a person learns that a violation of the Convention, the Act, or the CWCR has occurred or may occur, that person may notify: Office of Export Enforcement, Bureau of Industry and Security, U.S. Department of Commerce, 14th Street and Constitution Avenue, NW., Room H–4520, Washington, DC 20230; Tel: (202) 482–1208; Facsimile: (202) 482–0964.

PART 720—DENIAL OF EXPORT PRIVILEGES

Sec.

720.1 Denial of export privileges for convictions under 18 U.S.C. 229.
720.2 Initiation of administrative action denying export privileges.
720.3 Final decision on administrative action denying export privileges.
720.4 Effect of denial.

AUTHORITY: 22 U.S.C. 6701 *et seq.;* E.O. 13128, 64 FR 36703, 3 CFR 1999 Comp., p. 199.

SOURCE: 71 FR 24929, Apr. 27, 2006, unless otherwise noted.

§ 720.1 Denial of export privileges for convictions under 18 U.S.C. 229.

Any person in the United States or any U.S. national may be denied export privileges after notice and opportunity for hearing if that person has been convicted under Title 18, Section 229 of the United States Code of knowingly:

(a) Developing, producing, otherwise acquiring, transferring directly or indirectly, receiving, stockpiling, retaining, owning, possessing, or using, or threatening to use, a chemical weapon; or

(b) Assisting or inducing, in any way, any person to violate paragraph (a) of this section, or attempting or conspiring to violate paragraph (a) of this section.

§ 720.2 Initiation of administrative action denying export privileges.

(a) *Notice*. BIS will notify any person convicted under Section 229, Title 18, United States Code, of BIS's intent to deny that person's export privileges. The notification letter shall reference the person's conviction, specify the number of years for which BIS intends to deny export privileges, set forth the statutory and regulatory authority for the action, state whether the denial order will be standard or non-standard pursuant to supplement no. 1 to part 764 of the Export Administration Regulations (15 CFR parts 730 through 774), and provide that the person may request a hearing before the Administrative Law Judge within 30 days from the date of the notification letter.

(b) *Waiver*. The failure of the notified person to file a request for a hearing within the time provided constitutes a waiver of the person's right to contest the denial of export privileges that BIS intends to impose.

(c) *Order of Assistant Secretary*. If no hearing is requested, the Assistant Secretary for Export Enforcement will order that export privileges be denied as indicated in the notification letter.

[71 FR 24929, Apr. 27, 2006, as amended at 73 FR 78183, Dec. 22, 2008]

§ 720.3 Final decision on administrative action denying export privileges.

(a) *Hearing*. Any hearing that is granted by the ALJ shall be conducted in accordance with the procedures set forth in § 719.14 of the CWCR.

(b) *Initial decision and order*. After considering the entire record in the proceeding, the ALJ will issue an initial decision and order, based on a preponderance of the evidence. The ALJ may consider factors such as the seriousness of the criminal offense that is the basis for conviction, the nature and duration of the criminal sanctions imposed, and whether the person has undertaken any corrective measures. The ALJ may dismiss the proceeding if the evidence is insufficient to sustain a denial of export privileges, or may issue an order imposing a denial of export privileges for the length of time the ALJ deems appropriate. An order denying export privileges may be standard or non-standard, as provided in supplement no. 1 to part 764 of the Export Administration Regulations (15 CFR parts 730 through 774). The initial decision and order will be served on each party, and will be published in the FEDERAL REGISTER as the final decision of BIS 30 days after service, unless an appeal is filed in accordance with paragraph (c) of this section.

(c) *Grounds for appeal*. (1) A party may, within 30 days of the ALJ's initial decision and order, petition the Under Secretary, Bureau of Industry and Security, for review of the initial decision and order. A petition for review must be filed with the Office of Under Secretary, Bureau of Industry and Security, Department of Commerce, 14th Street and Constitution Avenue, NW., Washington, DC 20230, and shall be served on the Office of Chief Counsel for Industry and Security or on the respondent. Petitions for review may be filed only on one or more of the following grounds:

(i) That a necessary finding of fact is omitted, erroneous or unsupported by substantial evidence of record;

(ii) That a necessary legal conclusion or finding is contrary to law;

(iii) That prejudicial procedural error occurred; or

(iv) That the decision or the extent of sanctions is arbitrary, capricious or an abuse of discretion.

(2) The appeal must specify the grounds on which the appeal is based

and the provisions of the order from which the appeal was taken.

(d) *Appeal procedure*. The Under Secretary, Bureau of Industry and Security, normally will not hold hearings or entertain oral arguments on appeals. A full written statement in support of the appeal must be filed with the appeal and be simultaneously served on all parties, who shall have 30 days from service to file a reply. At his/her discretion, the Under Secretary may accept new submissions, but will not ordinarily accept those submissions filed more than 30 days after the filing of the reply to the appellant's first submission.

(e) *Decisions*. The Under Secretary's decision will be in writing and will be accompanied by an order signed by the Under Secretary, Bureau of Industry and Security, giving effect to the decision. The order may either dispose of the case by affirming, modifying or reversing the order of the ALJ, or may refer the case back to the ALJ for further proceedings. Any order that imposes a denial of export privileges will be published in the FEDERAL REGISTER.

[71 FR 24929, Apr. 27, 2006, as amended at 73 FR 78183, Dec. 22, 2008]

§ 720.4 Effect of denial.

Any person denied export privileges pursuant to this part shall be considered a ''person denied export privileges'' for purposes of the Export Administration Regulations (EAR) (15 CFR parts 730 through 774). Orders denying export privileges pursuant to Parts 764 and 766 of the EAR are published in the FEDERAL REGISTER when they are issued and are legally controlling documents in accordance with their terms. BIS maintains unofficial compilations of persons denied export privileges on its Web site.

[71 FR 24929, Apr. 27, 2006, as amended at 73 FR 78183, Dec. 22, 2008]

PART 721—INSPECTION OF RECORDS AND RECORDKEEPING

Sec.

721.1 Inspection of records.
721.2 Recordkeeping.
721.3 Destruction or disposal of records.

AUTHORITY: 22 U.S.C. 6701 *et seq.;* E.O. 13128, 64 FR 36703, 3 CFR 1999 Comp., p. 199.

SOURCE: 71 FR 24929, Apr. 27, 2006, unless otherwise noted.

§ 721.1 Inspection of records.

Upon request by BIS or any other agency of competent jurisdiction, you must permit access to and copying of any record relating to compliance with the requirements of the CWCR. This requires that you make available the equipment and, if necessary, knowledgeable personnel for locating, reading, and reproducing any record.

§ 721.2 Recordkeeping.

(a) *Requirements*. Each person, facility, plant site or trading company required to submit a declaration, report, or advance notification under parts 712 through 715 of the CWCR must retain all supporting materials and documentation used by a unit, plant, facility, plant site or trading company to prepare such declaration, report, or advance notification to determine production, processing, consumption, export or import of chemicals. Each facility subject to inspection under Part 716 of the CWCR must retain all supporting materials and documentation associated with the movement into, around, and from the facility of declared chemicals and their feedstock or any product chemicals formed from such chemicals and feedstock. In the event that a declared facility is sold, the previous owner of the facility must retain all such supporting materials and documentation that were not transferred to the current owner of the facility (e.g., as part of the contract involving the sale of the facility)—otherwise, the current owner of the facility is responsible for retaining such supporting materials and documentation. Whenever the previous owner of a declared facility retains such supporting materials and documentation, the owner must inform BIS of any subsequent change in address or other contact information, so that BIS will be able to contact the previous owner of the facility, to arrange for access to such records, if BIS deems them relevant to inspection activities involving the facility (see § 716.4 of the CWCR).

(b) *Five year retention period.* All supporting materials and documentation required to be kept under paragraph (a) of this section must be retained for five years from the due date of the applicable declaration, report, or advance notification, or for five years from the date of submission of the applicable declaration, report or advance notification, whichever is later. Due dates for declarations, reports and advance notifications are provided in parts 712 through 715 of the CWCR.

(c) *Location of records.* If a facility is subject to inspection under part 716 of the CWCR, records retained under this section must be maintained at the facility or must be accessible electronically at the facility for purposes of inspection of the facility by Inspection Teams. If a facility is not subject to inspection under part 716 of the CWCR, records retained under this section may be maintained either at the facility subject to a declaration, report, or advance notification requirement, or at a remote location, but all records must be accessible to any authorized agent, official or employee of the U.S. Government under § 721.1 of the CWCR.

(d) *Reproduction of original records.* (1) You may maintain reproductions instead of the original records provided all of the requirements of paragraph (b) of this section are met.

(2) If you must maintain records under this part, you may use any photostatic, miniature photographic, micrographic, automated archival storage, or other process that completely, accurately, legibly and durably reproduces the original records (whether on paper, microfilm, or through electronic digital storage techniques). The process must meet all of the following requirements, which are applicable to all systems:

(i) The system must be capable of reproducing all records on paper.

(ii) The system must record and be able to reproduce all marks, information, and other characteristics of the original record, including both obverse and reverse sides (unless blank) of paper documents in legible form.

(iii) When displayed on a viewer, monitor, or reproduced on paper, the records must exhibit a high degree of legibility and readability. For purposes of this section, legible and legibility mean the quality of a letter or numeral that enable the observer to identify it positively and quickly to the exclusion of all other letters or numerals. Readable and readability mean the quality of a group of letters or numerals being recognized as complete words or numbers.

(iv) The system must preserve the initial image (including both obverse and reverse sides, unless blank, of paper documents) and record all changes, who made them and when they were made. This information must be stored in such a manner that none of it may be altered once it is initially recorded.

(v) You must establish written procedures to identify the individuals who are responsible for the operation, use and maintenance of the system.

(vi) You must keep a record of where, when, by whom, and on what equipment the records and other information were entered into the system.

(3) *Requirements applicable to a system based on digital images.* For systems based on the storage of digital images, the system must provide accessibility to any digital image in the system. The system must be able to locate and reproduce all records according to the same criteria that would have been used to organize the records had they been maintained in original form.

(4) *Requirements applicable to a system based on photographic processes.* For systems based on photographic, photostatic, or miniature photographic processes, the records must be maintained according to an index of all records in the system following the same criteria that would have been used to organize the records had they been maintained in original form.

[71 FR 24929, Apr. 27, 2006, as amended at 72 FR 14410, Mar. 28, 2007]

§ 721.3 Destruction or disposal of records.

If BIS or other authorized U.S. government agency makes a formal or informal request for a certain record or records, such record or records may not be destroyed or disposed of without the written authorization of the requesting entity.

PART 722—INTERPRETATIONS [RESERVED]

NOTE: This part is reserved for interpretations of parts 710 through 721 and also for applicability of decisions by the Organization for the Prohibition of Chemical Weapons (OPCW).

PARTS 723–729 [RESERVED]

SUBCHAPTER C—EXPORT ADMINISTRATION REGULATIONS

PART 730—GENERAL INFORMATION

Sec.
730.1 What these regulations cover.
730.2 Statutory authority.
730.3 ''Dual use'' and other types of items subject to the EAR.
730.4 Other control agencies and departments.
730.5 Coverage of more than exports.
730.6 Control purposes.
730.7 License requirements and exceptions.
730.8 How to proceed and where to get help.
730.9 Organization of the Bureau of Industry and Security.
730.10 Advisory information.

SUPPLEMENT NO. 1 TO PART 730—INFORMATION COLLECTION REQUIREMENTS UNDER THE PAPERWORK REDUCTION ACT: OMB CONTROL NUMBERS

SUPPLEMENT NO. 2 TO PART 730—TECHNICAL ADVISORY COMMITTEES

SUPPLEMENT NO. 3 TO PART 730—OTHER U.S. GOVERNMENT DEPARTMENTS AND AGENCIES WITH EXPORT CONTROL RESPONSIBILITIES

AUTHORITY: 50 U.S.C. 4601 *et seq.;* 50 U.S.C. 1701 *et seq.;* 10 U.S.C. 7420; 10 U.S.C. 7430(e); 22 U.S.C. 287c; 22 U.S.C. 2151 note; 22 U.S.C. 3201 *et seq.;* 22 U.S.C. 6004; 42 U.S.C. 2139a; 15 U.S.C. 1824a; 50 U.S.C. 4305; 22 U.S.C. 7201 *et seq.;* 22 U.S.C. 7210; E.O. 11912, 41 FR 15825, 3 CFR, 1976 Comp., p. 114; E.O. 12002, 42 FR 35623, 3 CFR, 1977 Comp., p. 133; E.O. 12058, 43 FR 20947, 3 CFR, 1978 Comp., p. 179; E.O. 12214, 45 FR 29783, 3 CFR, 1980 Comp., p. 256; E.O. 12851, 58 FR 33181, 3 CFR, 1993 Comp., p. 608; E.O. 12854, 58 FR 36587, 3 CFR, 1993 Comp., p. 179; E.O. 12918, 59 FR 28205, 3 CFR, 1994 Comp., p. 899; E.O. 12938, 59 FR 59099, 3 CFR, 1994 Comp., p. 950; E.O. 12947, 60 FR 5079, 3 CFR, 1995 Comp., p. 356; E.O. 12981, 60 FR 62981, 3 CFR, 1995 Comp., p. 419; E.O. 13020, 61 FR 54079, 3 CFR, 1996 Comp., p. 219; E.O. 13026, 61 FR 58767, 3 CFR, 1996 Comp., p. 228; E.O. 13099, 63 FR 45167, 3 CFR, 1998 Comp., p. 208; E.O. 13222, 66 FR 44025, 3 CFR, 2001 Comp., p. 783; E.O. 13224, 66 FR 49079, 3 CFR, 2001 Comp., p. 786; E.O. 13338, 69 FR 26751, 3 CFR, 2004 Comp., p 168; E.O. 13637, 78 FR 16129, 3 CFR, 2014 Comp., p. 223; Notice of November 12, 2015, 80 FR 70667 (November 13, 2015); Notice of January 20, 2016, 81 FR 3937 (January 22, 2016); Notice of May 3, 2016, 81 FR 27293 (May 5, 2016); Notice of August 4, 2016, 81 FR 52587 (August 8, 2016); Notice of September 15, 2016, 81 FR 64343 (September 19, 2016).

EFFECTIVE DATE NOTE: At 81 FR 87425, Dec. 5, 2016, the authority citation for part 730 was revised, effective Jan. 4, 2017. For the convenience of the user, the revised text is set forth as follows:

AUTHORITY: 50 U.S.C. 4601 *et seq.;* 50 U.S.C. 1701 *et seq.;* 10 U.S.C. 7420; 10 U.S.C. 7430(e); 22 U.S.C. 287c; 22 U.S.C. 2151 note; 22 U.S.C. 3201 *et seq.;* 22 U.S.C. 6004; 42 U.S.C. 2139a; 15 U.S.C. 1824a; 50 U.S.C. 4305; 22 U.S.C. 7201 *et seq.;* 22 U.S.C. 7210; E.O. 11912, 41 FR 15825, 3 CFR, 1976 Comp., p. 114; E.O. 12002, 42 FR 35623, 3 CFR, 1977 Comp., p. 133; E.O. 12058, 43 FR 20947, 3 CFR, 1978 Comp., p. 179; E.O. 12214, 45 FR 29783, 3 CFR, 1980 Comp., p. 256; E.O. 12851, 58 FR 33181, 3 CFR, 1993 Comp., p. 608; E.O. 12854, 58 FR 36587, 3 CFR, 1993 Comp., p. 179; E.O. 12918, 59 FR 28205, 3 CFR, 1994 Comp., p. 899; E.O. 12938, 59 FR 59099, 3 CFR, 1994 Comp., p. 950; E.O. 12947, 60 FR 5079, 3 CFR, 1995 Comp., p. 356; E.O. 12981, 60 FR 62981, 3 CFR, 1995 Comp., p. 419; E.O. 13020, 61 FR 54079, 3 CFR, 1996 Comp., p. 219; E.O. 13026, 61 FR 58767, 3 CFR, 1996 Comp., p. 228; E.O. 13099, 63 FR 45167, 3 CFR, 1998 Comp., p. 208; E.O. 13222, 66 FR 44025, 3 CFR, 2001 Comp., p. 783; E.O. 13224, 66 FR 49079, 3 CFR, 2001 Comp., p. 786; E.O. 13338, 69 FR 26751, 3 CFR, 2004 Comp., p 168; E.O. 13637, 78 FR 16129, 3 CFR, 2014 Comp., p. 223; Notice of November 12, 2015, 80 FR 70667 (November 13, 2015); Notice of January 20, 2016, 81 FR 3937 (January 22, 2016); Notice of May 3, 2016, 81 FR 27293 (May 5, 2016); Notice of August 4, 2016, 81 FR 52587 (August 8, 2016); Notice of September 15, 2016, 81 FR 64343 (September 19, 2016).

SOURCE: 61 FR 12734, Mar. 25, 1996, unless otherwise noted.

§ 730.1 What these regulations cover.

In this part, references to the Export Administration Regulations (EAR) are references to 15 CFR chapter VII, subchapter C. The EAR are issued by the United States Department of Commerce, Bureau of Industry and Security (BIS) under laws relating to the control of certain exports, reexports, and activities. In addition, the EAR implement antiboycott law provisions requiring regulations to prohibit specified conduct by United States persons that has the effect of furthering or supporting boycotts fostered or imposed by a country against a country friendly to United States. Supplement no. 1 to

part 730 lists the control numbers assigned to information collection requirements under the EAR by the Office of Management and Budget pursuant to the Paperwork Reduction Act of 1995.

§ 730.2 Statutory authority.

The EAR have been designed primarily to implement the Export Administration Act of 1979, as amended, 50 U.S.C. app. 2401–2420 (EAA). There are numerous other legal authorities underlying the EAR. These are listed in the FEDERAL REGISTER documents promulgating the EAR and at the beginning of each part of the EAR in the Code of Federal Regulations (CFR). From time to time, the President has exercised authority under the International Emergency Economic Powers Act with respect to the EAR (50 U.S.C. 1701–1706 (IEEPA)). The EAA is not permanent legislation, and when it has lapsed, Presidential executive orders under IEEPA have directed and authorized the continuation in force of the EAR.

§ 730.3 "Dual use" and other types of items subject to the EAR.

The term ''dual use'' is often used to describe the types of items subject to the EAR. A ''dual-use'' item is one that has civil applications as well as terrorism and military or weapons of mass destruction (WMD)-related applications. The precise description of what is ''subject to the EAR'' is in § 734.3, which does not limit the EAR to controlling only dual-use items. In essence, the EAR control any item warranting control that is not exclusively controlled for export, reexport, or transfer (in-country) by another agency of the U.S. Government or otherwise excluded from being subject to the EAR pursuant to § 734.3(b) of the EAR. Thus, items subject to the EAR include purely civilian items, items with both civil and military, terrorism or potential WMD-related applications, and items that are exclusively used for military applications but that do not warrant control under the International Traffic in Arms Regulations (ITAR) (22 CFR parts 120 *et seq.*).

[78 FR 22705, Apr. 16, 2013]

§ 730.4 Other control agencies and departments.

In addition to the departments and agencies mentioned in § 730.3 of this part, other departments and agencies have jurisdiction over certain narrower classes of exports and reexports. These include the Department of Treasury's Office of Foreign Assets Control (OFAC), which administers controls against certain countries that are the object of sanctions affecting not only exports and reexports, but also imports and financial dealings. For your convenience, supplement no. 3 to part 730 identifies other departments and agencies with regulatory jurisdiction over certain types of exports and reexports. This is not a comprehensive list, and the brief descriptions are only generally indicative of the types of controls administered and/or enforced by each agency.

§ 730.5 Coverage of more than exports.

The core of the export control provisions of the EAR concerns exports from the United States. You will find, however, that some provisions give broad meaning to the term ''export'', apply to transactions outside of the United States, or apply to activities other than exports.

(a) *Reexports.* Commodities, software, and technology that have been exported from the United States are generally subject to the EAR with respect to reexport. Many such reexports, however, may go to many destinations without a license or will qualify for an exception from licensing requirements.

(b) *Foreign products.* In some cases, authorization to export technology from the United States will be subject to assurances that items produced abroad that are the direct product of that technology will not be exported to certain destinations without authorization from BIS.

(c) *Scope of ''exports''.* Certain actions that you might not regard as an ''export'' in other contexts do constitute an export subject to the EAR. The release of technology to a foreign national in the United States through such means as demonstration or oral briefing is deemed an export. Other examples of exports under the EAR include the return of foreign equipment

to its country of origin after repair in the United States, shipments from a U.S. foreign trade zone, and the electronic transmission of non-public data that will be received abroad.

(d) *U.S. person activities.* To counter the proliferation of weapons of mass destruction, the EAR restrict the involvement of ''United States persons'' anywhere in the world in exports of foreign-origin items, or in providing services or support, that may contribute to such proliferation.

[61 FR 12734, Mar. 25, 1996, as amended at 61 FR 68577, Dec. 30, 1996; 74 FR 52882, Oct. 15, 2009]

§ 730.6 Control purposes.

The export control provisions of the EAR are intended to serve the national security, foreign policy, nonproliferation of weapons of mass destruction, and other interests of the United States, which in many cases are reflected in international obligations or arrangements. Some controls are designed to restrict access to items subject to the EAR by countries or persons that might apply such items to uses inimical to U.S. interests. These include controls designed to stem the proliferation of weapons of mass destruction and controls designed to limit the military and terrorism support capability of certain countries. The effectiveness of many of the controls under the EAR is enhanced by their being maintained as part of multilateral control arrangements. Multilateral export control cooperation is sought through arrangements such as the Nuclear Suppliers Group, the Australia Group, and the Missile Technology Control Regime. The EAR also include some export controls to protect the United States from the adverse impact of the unrestricted export of commodities in short supply.

[61 FR 12734, Mar. 25, 1996, as amended at 78 FR 22705, Apr. 16, 2013]

§ 730.7 License requirements and exceptions.

A relatively small percentage of exports and reexports subject to the EAR require an application to BIS for a license. Many items are not on the Commerce Control List (CCL) (supplement no. 1 to § 774.1 of the EAR), or, if on the CCL, require a license to only a limited number of countries. Other transactions may be covered by one or more of the License Exceptions in the EAR. In such cases no application need be made to BIS.

§ 730.8 How to proceed and where to get help.

(a) *How the EAR are organized.* The Export Administration Regulations (EAR) are structured in a logical manner. In dealing with the EAR you may find it helpful to be aware of the overall organization of these regulations. In order to determine what the rules are and what you need to do, review the titles and the introductory sections of the parts of the EAR.

(1) *How do you go about determining your obligations under the EAR?* Part 732 of the EAR provides steps you may follow to determine your obligations under the EAR. You will find guidance to enable you to tell whether or not your transaction is subject to the EAR and, if it is, whether it qualifies for a License Exception or must be authorized through issuance of a license.

(2) *Are your items or activities subject to the EAR at all?* Part 734 of the EAR defines the items and activities that are subject to the EAR. Note that the definition of ''items subject to the EAR'' includes, but is not limited to, items listed on the Commerce Control List in part 774 of the EAR.

(3) *If subject to the EAR, what do the EAR require?* Part 736 of the EAR lists all the prohibitions that are contained in the EAR. Note that certain prohibitions (General Prohibitions One through Three) apply to items as indicated on the CCL, and others (General Prohibitions Four through Ten) prohibit certain activities and apply to all items subject to the EAR unless otherwise indicated.

(4) *Do you need a license for your item or activity? What policies will BIS apply if you do need to submit license application?* The EAR have four principal ways of describing license requirements:

(i) The EAR may require a license to a country if your item is listed on the CCL and the Country Chart in part 738 of the EAR tells that a license is required to that country. Virtually all Export Control Classification Numbers (ECCN) on the CCL are covered by the

Country Chart in part 738 of the EAR. That part identifies the limited number of entries that are not included on the Chart. These ECCNs will state the specific countries that require a license or refer you to a self-contained section, i.e., Short Supply in part 754 of the EAR, or Embargoes in part 746 of the EAR. If a license is required, you should consult part 740 of the EAR which describes the License Exception that may be available for items on the CCL. Part 742 of the EAR describes the licensing policies that BIS will apply in reviewing an application you file. Note that part 754 of the EAR on short supply controls and part 746 on embargoes are self-contained parts that include the available exceptions and licensing policy.

(ii) A license requirement may be based on the end-use or end-user in a transaction, primarily for proliferation reasons. Part 744 of the EAR describes such requirements and relevant licensing policies and includes both restrictions on items and restrictions on the activities of U.S. persons.

(iii) A license is required for virtually all exports to embargoed destinations, such as Cuba. Part 746 of the EAR describes all the licensing requirements, license review policies and License Exceptions that apply to such destinations. If your transaction involves one of these countries, you should first look at this part. This part also describes controls that may be maintained under the EAR to implement UN sanctions.

(iv) In addition, under §§736.2(b)(9) and (10) of the EAR, you may not engage in a transaction knowing a violation is about to occur or violate any orders, terms, and conditions under the EAR. Part 764 of the EAR describes prohibited transactions with a person denied export privileges or activity that violates the terms or conditions of a denial order.

(5) *How do you file a license application and what will happen to the application once you do file it? What if you need authorization for multiple transactions?* Parts 748 and 750 of the EAR provide information on license submission and processing. If your application is denied, part 756 of the EAR provides rules for filing appeals.

(6) *How do you clear shipments with the U.S. Customs Service?* Part 758 of the EAR describes the requirements for clearance of exports.

(7) *Where do you find the rules on restrictive trade practices and boycotts?* Part 760 of the EAR deals with restrictive trade practices and boycotts.

(8) *Where are the rules on recordkeeping and enforcement?* Part 762 of the EAR sets out your recordkeeping requirements, and parts 764 and 766 of the EAR deal with violations and enforcement proceedings.

(9) *What is the effect of foreign availability?* Part 768 of the EAR provides rules for determining foreign availability of items subject to controls.

(10) *Do the EAR provide definitions and interpretations?* Part 770 of the EAR contains interpretations and part 772 of the EAR lists definitions used.

(b) *Why the EAR are so detailed.* Some people will find the great length of the EAR and their extensive use of technical terms intimidating. BIS believes, however, that such detail and precision can and does serve the interests of the public. The detailed listing of technical parameters in the CCL establishes precise, objective criteria. This should, in most cases, enable you to ascertain the appropriate control status. Broader, more subjective criteria would leave exporters and reexporters more dependent upon interpretations and rulings by BIS officials. Moreover, much of the detail in the CCL is derived from multilaterally adopted lists, and the specificity serves to enhance the uniformity and effectiveness of international control practices and to promote a ''level playing field''. The detailed presentation of such elements as licensing and export clearance procedures enables you to find in one place what you need to know to comply with pertinent requirements. Of special importance is the detailed listing of License Exception criteria, as these will enable you to determine quickly, and with confidence, that you may proceed with a transaction without delay. Finally, some of the detail results from the need to draft the EAR with care in order to avoid loop-holes and to permit effective enforcement.

(c) *Where to get help.* Throughout the EAR you will find information on offices you can contact for various purposes and types of information. General information including assistance in understanding the EAR, information on how to obtain forms, electronic services, publications, and information on training programs offered by BIS, is available from the Office of Export Services at the following locations: Outreach and Educational Services Division, U.S. Department of Commerce, 14th and Pennsylvania Avenue, NW., Room H1099D, Washington, DC 20230, Tel: (202) 482–4811, Fax: (202) 482–2927, and Bureau of Industry and Security, Western Regional Office, U.S. Department of Commerce, 2302 Martin St., Suite 330, Irvine, CA 92612, Tel: (949) 660–0144, Fax: (949) 660–9347, and Bureau of Industry and Security, Western Regional Office, Northern California Branch, U.S. Department of Commerce, 160 W. Santa Clara Street, Suite 725, San Jose, CA 95113, Tel: (408) 998–8806, Fax: (408) 998–8677.

[61 FR 12734, Mar. 25, 1996, as amended at 69 FR 5687, Feb. 6, 2004; 70 FR 14386, Mar. 22, 2005; 70 FR 22249, Apr. 29, 2005; 72 FR 3945, Jan. 29, 2007; 73 FR 35, Jan. 2, 2008; 73 FR 75944, Dec. 15, 2008; 76 FR 40604, July 11, 2011; 80 FR 51729, Aug. 26, 2015]

§ 730.9 Organization of the Bureau of Industry and Security.

The head of the Bureau of Industry and Security is the Under Secretary for Industry and Security. The Under Secretary is assisted by a Deputy Under Secretary for Industry and Security, the Assistant Secretary for Export Administration, the Assistant Secretary for Export Enforcement, the Director of Administration, the Director of the Office of Congressional and Public Affairs, and the Chief Information Officer. The functions and authorities of the Under Secretary are described in the Department's Organizational Order 10–16. The Department's organizational and administrative orders are available via Office of Management and Organization's Web page on the Department's Web site at *http://www.osec.doc.gov /omo/ DMPHome.htm.* The principal functions of the Bureau that directly affect the public are carried out by two units: Export Administration and Export Enforcement.

(a) Export Administration is headed by the Assistant Secretary for Export Administration, who is assisted by a Deputy Assistant Secretary. Its substantive work is carried out by six subunits: the Office of Nonproliferation and Treaty Compliance, the Office of National Security and Technology Transfer Controls, the Office of Exporter Services, the Operating Committee, the Office of Strategic Industries and Economic Security, and the Office of Technology Evaluation. The functions of the Operating Committee are described in § 750.4(f)(1) of the EAR. The roles of the other units are described on BIS's Web site at *http:// www.bis.doc.gov/about /programoffices.htm.*

(b) Export Enforcement is headed by the Assistant Secretary for Export Enforcement who is assisted by a Deputy Assistant Secretary. Its substantive work is carried out by three sub-units: the Office of Export Enforcement, the Office of Enforcement Analysis and the Office of Antiboycott Compliance. The roles of these units are described on BIS's Web site at *http://www.bis.doc.gov/ about /programoffices.htm.*

(c) BIS is also assisted in its work by six technical advisory committees. The procedures and criteria for establishing and operating the technical advisory committees is at supplement No. 2 to this part. Information about the specific roles of each committee, meeting schedules, and membership selection is available on BIS's Web site at *http:// tac.bis.doc.gov/.*

[70 FR 8248, Feb. 18, 2005, as amended at 72 FR 25196, May 4, 2007]

§ 730.10 Advisory information.

The general information in this part is just that—general. To achieve brevity, so as to give you a quick overview, the information in this part is selective, incomplete, and not expressed with regulatory precision. The controlling language is the language of succeeding parts of the EAR and of any other laws or regulations referred to or applicable. The content of this part is not to be construed as modifying or interpreting any other language or as in any way, limiting the authority of BIS,

any of its components or any other government department or agency. You should not take any action based solely on what you read in this part.

SUPPLEMENT NO. 1 TO PART 730—INFORMATION COLLECTION REQUIREMENTS UNDER THE PAPERWORK REDUCTION ACT: OMB CONTROL NUMBERS

This supplement lists the control numbers assigned to the information collection requirements for the Bureau of Industry and Security by the Office of Management and Budget (OMB), pursuant to the Paperwork Reduction Act of 1995. This supplement complies with the requirements of section 3506(c)(1)(B)(i) of the Paperwork Reduction Act requiring agencies to display current control numbers assigned by the Director of OMB for each agency information collection requirement.

Collection number	Title	Reference in the EAR
0694–0004	Foreign Availability Procedures and Criteria.	part 768.
0694–0009	Approval of Triangular Transactions Involving Commodities Covered by a U.S. Import Certificate.	§ 748.10(e).
0694–0012	Report of Requests for Restrictive Trade Practice or Boycott—Single or Multiple Transactions.	part 760 and § 762.2(b).
0694–0013	Computers and Related Equipment EAR Supplement 2 to Part 748.	part 774.
0694–0016	Delivery Verification Certificate.	§§ 748.13 and 762.2(b).
0694–0017	International Import Certificate.	§ 748.10
0694–0021	Statement by Ultimate Consignee and Purchaser.	§§ 748.11 and 762.2(b).
0694–0026	Short Supply Regulations—Petroleum Products.	§ 754.3.
0694–0047	Technology Letter of Explanation.	Supplement No. 2 to part 748, paragraph (o)(2).
0694–0058	Procedure for Voluntary Self-Disclosure of Violations.	§§ 762.2(b) and 764.5.
0694–0073	Export Controls of High Performance Computers.	Supplement No. 2 to part 748, paragraph (c)(2), and § 762.2(b).
0694–0088	Simplified Network Application Processing+ System (SNAP+) and the Multipurpose Export License Application.	Parts 746 and 748, and § 762.2(b).
0694–0093	Import Certificates And End-User Certificates.	§§ 748.9, 748.10, 762.5(d), 762.6 764.2(g)(2).
0694–0096	Five Year Records Retention Period.	part 760, § 762.6(a).
0694–0100	Requests for Appointment of Technical Advisory Committee.	Supplement No. 1 to part 730.
0694–0102	Registration of U.S. Agricultural Commodities For Exemption From Short Supply Limitations on Export, and Petitions For The Imposition of Monitoring Or Controls On Recyclable Metallic Materials; Public Hearings.	§§ 754.6 and 754.7.
0694–0107	National Defense Authorization Act (NDAA).	§§ 740.7, 742.12.
0694–0117	Chemical Weapons Convention Provisions of the Export Administration Regulations (Schedule 1 Advance Notifications and Reports and Schedule 3 End-use Certificates).	Part 745.
0694–0122	Licensing Responsibilities and Enforcement.	§§ 744.15(b) and 748.4 and Part 758.
0694–0125	BIS Seminar Evaluation.	N/A
0694–0126	Export License Services—Transfer of License Ownership, Requests for a Duplicate License.	§ 750.9.
0694–0129	Export and Reexport Controls For Iraq.	§§ 732.3, 738, 744.18, 746.3(b)(1), 747, 750, 758, 762, 772, 774.
0694–0132	Voluntary Self-Disclosure of Antiboycott Violations.	§ 764.8.
0694–0134	Procedure for parties on the Entity List or the Unverified List to Request Removal or Modification of their Listing.	§§ 744.15 and 744.16
0694–0137	License Exceptions and Exclusions.	§ 734.4, Supplement No. 2 to part 734, §§ 740.3(d), 740.4(c), 740.9(a)(2)(viii)(B), 740.9(c), 740.12(b)(7), 740.17, 740.18, Supp. No. 2 to part 740, §§ 742.15, 743.1, 743.3, 754.4, 762.2(b) and Supplement No. 1 to part 774.
0607–0152	Automated Export System (AES) Program.	§§ 740.1(d), 740.3(a)(3), 754.4(c), 758.1, 758.2, and 758.3 of the EAR.

[61 FR 12734, Mar. 25, 1996, as amended at 70 FR 14386, Mar. 22, 2005; 71 FR 20883, Apr. 24, 2006; 72 FR 39004, July 17, 2007; 73 FR 49321, Aug. 21, 2008; 73 FR 56967, Oct. 1, 2008; 73 FR 75944, Dec. 15, 2008; 74 FR 23944, May 22, 2009; 75 FR 36489, June 25, 2010; 76 FR 40604, July 11, 2011; 78 FR 13467, Feb. 28, 2013; 78 FR 76746, Dec. 19, 2013; 80 FR 51729, Aug. 26, 2015; 80 FR 70676, Nov. 16, 2015; 81 FR 29485, May 12, 2016; 81 FR 64668, Sept. 20, 2016]

EFFECTIVE DATE NOTE: At 81 FR 87425, Dec. 5, 2016, supplement no. 1 to part 730 was amended by revising the entry for Collection number ''0694–0129'', effective Jan. 4, 2017. For the convenience of the user, the revised text is set forth as follows:

SUPPLEMENT NO. 1 TO PART 730—INFORMATION COLLECTION REQUIREMENTS UNDER THE PAPERWORK REDUCTION ACT: OMB CONTROL NUMBERS

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Collection No.	Title	Reference in the EAR
* * *	* *	* *
0694–0129	Export and Reexport Controls For Iraq.	§§ 732.3, 738, 744.18, 746.3(b)(1), 750, 758, 762, 772, 774.
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SUPPLEMENT NO. 2 TO PART 730—TECHNICAL ADVISORY COMMITTEES

(a) *Purpose*. The purpose of this supplement is to describe the procedures and criteria for the establishment and operation of Technical Advisory Committees.

(b) *Technical advisory committees*. Any producer of articles, materials, or supplies, including technology, software, and other information, that are subject to export controls, or are being considered for such controls because of their significance to the national security of the United States, may request the Secretary of Commerce to establish a technical advisory committee, under the provisions of section 5(h) of the Export Administration Act of 1979, as amended (EAA) to advise and assist the Department of Commerce and other appropriate U.S. Government agencies or officials with respect to questions involving technical matters; worldwide availability and actual utilization of production technology; licensing procedures that affect the level of export controls applicable to a clearly defined grouping of articles, materials, or supplies, including technology, software, or other information; and exports and reexports subject to all controls that the United States maintains including proposed revisions of any such controls. If producers of articles, materials, or supplies, including technology, software, and other information, that are subject to export controls because of their significance to the national security of the United States, wish a trade association or other representative to submit a written request on their behalf for the appointment to a TAC, such request shall be submitted in accordance with paragraph (b)(4) of this supplement.

(1) *Form and substance of requests*. Each request for the appointment of a TAC shall be submitted in writing to: Assistant Secretary for Export Administration, 14th Street and Pennsylvania Ave., NW., Room 2099B, Washington, DC 20230.

The request shall include:

(i) A description of the articles, materials, or supplies including technology and software, in terms of a clear, cohesive grouping (citing the applicable Export Control Classification Numbers where practical);

(ii) A statement of the reasons for requesting the appointment of a TAC; and

(iii) Any information in support of any contention that may be made that the request meets the criteria described in paragraph (b)(2) of this supplement.

(2) *Consideration of request for establishment of a TAC*. The Department of Commerce will review all requests for the establishment of a TAC to determine if the following criteria are met:

(i) That a substantial segment of the industry producing the specified articles, materials, or supplies including technology desires such a committee; and

(ii) That the evaluation of such articles, materials, or supplies including technology and software for export control purposes is difficult because of questions involving technical matters, worldwide availability and actual utilization of production and software technology, or licensing procedures.

(3) *Requests by a substantial segment of an industry*. In determining whether or not a substantial segment of any industry has requested the appointment of a TAC, the Department of Commerce will consider:

(i) The number of persons or firms requesting the establishment of a TAC for a particular grouping of commodities, software and technology in relation to the total number of U.S. producers of such items; and

(ii) The volume of annual production by such persons or firms of each item in the grouping in relation to the total U.S. production. Generally, a substantial segment of an industry (for purposes of this supplement) shall consist of:

(A) Not less than 30 percent of the total number of U.S. producers of the items concerned; or

(B) Three or more U.S. producers who produce a combined total of not less than 30 percent of the total U.S. annual production, by dollar value of the items concerned; or

(C) Not less than 20 percent of the total number of U.S. producers of the items concerned, provided that the total of their annual production thereof is not less than 20 percent of the total U.S. annual production, by dollar value.

(iii) If it is determined that a substantial segment of the industry concerned has requested the establishment of a TAC concerning a specific grouping of items that the Department of Commerce determines difficult to evaluate for export control purposes, BIS will establish and use the TAC requested.

(4) *Requests from trade associations or other representatives.* Requests from trade associations or other representatives of U.S. producers for the establishment of a TAC must comply with the provisions of paragraphs (b)(1) through (3) of this supplement. In addition, in order to assist BIS in determining whether the criteria described in paragraph (b)(3) of this supplement have been met, a trade association or other representative submitting a request for the establishment of a TAC should include the following information:

(i) The total number of firms in the particular industry;

(ii) The total number of firms in the industry that have authorized the trade association or other representative to act in their behalf in this matter;

(iii) The approximate amount of total U.S. annual production by dollar value of the items concerned produced by those firms that have authorized the trade association or other representative to act in their behalf; and

(iv) A description of the method by which authorization to act on behalf of these producers was obtained.

(5) *Nominations for membership on TACs.* When the Department of Commerce determines that the establishment of a TAC is warranted, it will request nominations for membership on the committee among the producers of the items and from any other sources that may be able to suggest well-qualified nominees.

(6) *Selection of industry members of committee.* Industry members of a TAC will be selected by the Department of Commerce from a list of the nominees who have indicated their availability for service on the committee. To the extent feasible, the Department of Commerce will select a committee balanced to represent all significant facets of the industry involved, taking into consideration such factors as the size of the firms, their geographical distribution, and their product lines. No industry representative shall serve on a TAC for more than four consecutive years. The membership of a member who is absent from four consecutive meetings shall be terminated.

(7) *Government members.* Government members of a TAC will be selected by the Department of Commerce from the agencies having an interest in the subject matter concerned.

(8) *Invitation to serve on committee.* Invitations to serve on a TAC will be sent by letter to the selected nominees.

(9) *Election of Chair.* The Chair of each TAC shall be elected by a vote of the majority of the members of the committee present and voting.

(c) *Charter.* (1) No TAC established pursuant to this supplement shall meet or take any action until an advisory committee charter has been filed with the Assistant Secretary for Export Administration of the Department of Commerce and with the standing committees of the Senate and of the House of Representatives having legislative jurisdiction over the Department. Such charter shall contain the following information:

(i) The committee's official designation;

(ii) The committee's objectives and the scope of its activities;

(iii) The period of time necessary for the committee to carry out its purposes;

(iv) The agency or official to whom the committee reports;

(v) The agency responsible for providing the necessary support for the committee;

(vi) A description of the duties for which the committee is responsible, and, if such duties are not solely advisory, a specification of the authority for such functions;

(vii) The estimated annual operating costs in dollars and years for such committee;

(viii) The estimated number and frequency of committee meetings;

(ix) The committee's termination date, if less than two years from the date of the committee's establishment; and

(x) The date the charter is filed.

(d) *Meetings.* (1) Each TAC established under the provisions of the EAA and paragraph (b) of this supplement shall meet at least once every three months at the call of its Chair unless it is specifically determined by the Chair, in consultation with other members of the committee, that a particular meeting is not necessary.

(2) No TAC may meet except at the call of its Chair.

(3) Each meeting of a TAC shall be conducted in accordance with an agenda approved by a designated Federal government employee.

(4) No TAC shall conduct a meeting in the absence of a designated Federal government employee who shall be authorized to adjourn any advisory committee meeting, whenever the Federal government employee determines adjournment to be in the public interest.

(e) *Public notice.* Notice to the public of each meeting of a TAC will be issued at least 20 days in advance and will be published in the FEDERAL REGISTER. The notice will include the time and place of the meeting and the agenda.

(f) *Public attendance and participation.* (1) Any member of the public who wishes to do so may file a written statement with any TAC before or after any meeting of a committee.

(2) A request for an opportunity to deliver an oral statement relevant to matters on the agenda of a meeting of a TAC will be granted to the extent that the time available for the meeting permits. A committee may establish procedures requiring such persons to obtain advance approval for such participation.

(3) Attendance at meetings of TACs will be open to the public unless it is determined pursuant to section 10(d) of the Federal Advisory Committee Act to be necessary to close all, or some portion, of the meeting to the public. A determination that a meeting or portion thereof be closed to the public may be made if all or a specific portion of a meeting of a TAC is concerned with matters described in section 552(b) of Title 5, U.S.C.

(4) Participation by members of the public in open TAC meetings or questioning of committee members or other participants shall not be permitted except in accordance with procedures established by the committee.

(5) Every effort will be made to accommodate all members of the public who wish to attend.

(g) *Minutes.* (1) Detailed minutes of each meeting of each TAC will be kept and will contain a record of the persons present, a complete and accurate description of the matters discussed and conclusions reached, and copies of all reports received, issued, or approved by the TAC.

(2) The accuracy of all the minutes will be certified to by the TAC Chair.

(h) *Records.* (1) Subject to section 552 of Title 5, U.S.C. and Department of Commerce Administrative Order 205–12, ''Public Information,'' and ''Public Information'' regulations issued by the Department of Commerce that are contained in 15 CFR part 4, Subtitle A, the records, reports, transcripts, minutes, appendices, working papers, draft, studies, agenda, or other documents that were made available to or prepared for or by each TAC will be available for public inspection and copying.

(2) Each TAC will prepare once each year a report describing its membership, functions, activities, and such related matters as would be informative to the public consistent with the policy of section 552(b) of Title 5, U.S.C.

(3)(i) Requests for records should be addressed to: Bureau of Industry and Security, Freedom of Information, Records Inspection Facility, U.S. Department of Commerce, Room 4513, Washington, DC 20230, Telephone (202) 482–2593.

(ii) Rules concerning the use of the Records Inspection Facility are contained in 15 CFR part 4, Subtitle A, or may be obtained from this facility.

(i) *Compensation.* If the Department of Commerce deems it appropriate, a member of a TAC may be reimbursed for travel, subsistence, and other necessary expenses incurred in connection with the member's duties.

(j) *Scope of advisory committee functions.* All TACs are limited to the functions described in their charters.

(k) *Duration of committees.* Each TAC will terminate at the end of two years from the date the committee was established or two years from the effective date of its most recent extension, whichever is later. Committees may be continued only for successive two-year periods by appropriate action taken by the authorized officer of the Department of Commerce prior to the date on which such advisory committee would otherwise terminate. TACs may be extended or terminated only after consultation with the committee.

(l) *Miscellaneous.* (1) TACs established in accordance with paragraph (b) of this supplement must conform to the provisions of the Federal Advisory Committee Act (Pub. L. 92–463), Office of Management and Budget Circular A–63 (Revision of March 1974), ''Advisory Committee Management,'' Department of Commerce Administrative Order 205–12, ''Public Information,'' the applicable provisions of the EAA, and any other applicable Department of Commerce regulations or procedures affecting the establishment or operation of advisory committees.

(2) Whenever the Department of Commerce desires the advice or assistance of a particular segment of an industry with respect to any export control problem for which the service of a TAC, as described in paragraph (b) of this supplement is either unavailable or impracticable, an advisory committee may be established pursuant to the provisions of section 9 of the Federal Advisory Committee Act. Such committees will be subject to the requirements of the Federal Advisory Committee Act, OMB Circular A–63 (Revision of March 1974), ''Advisory Committee Management,'' Department of Commerce Administrative Order 205–12, ''Public Information,'' and any other applicable Department of Commerce regulations or procedures affecting the establishment or operation of advisory committees.

(3) Nothing in the provisions of this supplement shall be construed to restrict in any manner the right of any person or firm to discuss any export control matter with the Department of Commerce or to offer advice or information on export control matters. Similarly, nothing in these provisions shall be construed to restrict the Department of

Commerce in consulting any person or firm relative to any export control matter.

[61 FR 12734, Mar. 25, 1996, as amended at 73 FR 35, Jan. 2, 2008; 73 FR 75945, Dec. 15, 2008; 78 FR 13468, Feb. 28, 2013]

SUPPLEMENT NO. 3 TO PART 730—OTHER U.S. GOVERNMENT DEPARTMENTS AND AGENCIES WITH EXPORT CONTROL RESPONSIBILITIES

NOTE: The departments and agencies identified with an asterisk control exports for foreign policy or national security reasons and, in certain cases, such controls may overlap with the controls described in the EAR (see part 734 of the EAR).

Defense Services and Defense Articles

*Department of State, Directorate of Defense Trade Controls, Tel. (202) 663–2700, Fax: (202) 261–8695, Internet: *http://www.pmddtc.state.gov/index.html*.
22 CFR parts 120 through 130.

Drugs, Chemicals and Precursors

Chemicals: Drug Enforcement Administration, Office of Diversion Control, Import-Export Unit, Tel. (202) 307–4916, Fax: 202–307–4702, Internet: *http://www.deadiversion.usdoj.gov /imp__exp/index.html*.

21 CFR Parts 1311 Through 1313

Controlled Substances: Drug Enforcement Administration, Office of Diversion Control, Import-Export Unit, Tel. (202) 307–7182 or (202) 307–7181, Fax: (202) 307–7503, Internet: *http://www.deadiversion.usdoj.gov /imp__exp/index.html*.
21 CFR Parts 1311 Through 1313

Drugs and Biologics: Food and Drug Administration, Import/Export, Tel. (301) 594–3150, Fax: (301) 594–0165.
21 U.S.C. 301 *et seq* .

Investigational drugs permitted: Food and Drug Administration, International Affairs, Tel. (301) 443–4480, Fax: (301) 443–0235.
21 CFR 312.1106

Fish and Wildlife Controls; Endangered Species

Department of the Interior, Chief Office of Management Authority, Tel. (703) 358–2093, Fax: (703) 358–2280.
50 CFR 17.21, 17.22, 17.31, 17.32.

Foreign Assets and Transactions Controls

*Department of Treasury, Office of Foreign Assets Control, Licensing, Tel. (202) 622–2480, Fax: (202) 622–1657.
31 CFR parts 500 through 590.

Medical Devices

Food and Drug Administration, Office of Compliance, Tel. (301) 594–4699, Fax: (301) 594–4715.
21 U.S.C. 301 *et seq.*

Natural Gas and Electric Power

Department of Energy, Office of Fuels Programs, Tel. (202) 586–9482, Fax: (202) 586–6050.
10 CFR 205.300 through 205.379 and part 590.

Nuclear Materials and Equipment

*Nuclear Regulatory Commission, Office of International Programs, Tel. (301) 415–2344, Fax: (301) 415–2395.
10 CFR part 110.

Nuclear Technologies and Services Which Contribute to the Production of Special Nuclear Material (Snm). Technologies Covered Include Nuclear Reactors, Enrichment, Reprocessing, Fuel Fabrication, and Heavy Water Production.

Department of Energy Office of Export Control Policy & Cooperation (NA–24) Tel. (202) 586–2331, Fax (202) 586–1348.
10 CFR part 810.

Ocean Freight Forwarders

Federal Maritime Commission, Office of Freight Forwarders, Tel. (202) 523–5843, Fax: (202) 523–5830.
46 CFR part 510.

Patent Filing Data Sent Abroad

*Department of Commerce, Patent and Trademark Office, Licensing and Review; Tel. (703) 308–1722, Fax: (703) 305–3603, 3604.
37 CFR part 5.

U.S. Flagged or U.S. Manufactured Vessels Over 1,000 Gross Tons

U.S. Maritime Administration, Division of Vessel Transfer and Disposal, Tel. (202) 366–5821, Fax: (202) 366–3889.
46 CFR part 221.

[61 FR 12734, Mar. 25, 1996, as amended at 65 FR 38149, June 19, 2000; 69 FR 5687, Feb. 6, 2004; 72 FR 20222, Apr. 24, 2007; 78 FR 13468, Feb. 28, 2013]

PART 732—STEPS FOR USING THE EAR

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AUTHORITY: 50 U.S.C. 4601 *et seq.;* 50 U.S.C. 1701 *et seq.;* E.O. 13026, 61 FR 58767, 3 CFR, 1996 Comp., p. 228; E.O. 13222, 66 FR 44025, 3 CFR, 2001 Comp., p. 783; Notice of August 4, 2016, 81 FR 52587 (August 8, 2016).

SOURCE: 61 FR 12740, Mar. 25, 1996, unless otherwise noted.

§ 732.1 Steps overview.

(a)(1) *Introduction.* In this part, references to the EAR are references to 15 CFR chapter VII, subchapter C. This part is intended to help you determine your obligations under the EAR by listing logical steps in §§ 732.2 through 732.5 of this part that you can take in reviewing these regulations. A flow chart describing these steps is contained in supplement no. 1 to part 732. By cross-references to the relevant provisions of the EAR, this part describes the suggested steps for you to determine applicability of the following:

(i) The scope of the EAR (part 734 of the EAR);

(ii) Each of the general prohibitions (part 736 of the EAR);

(iii) The License Exceptions (part 740 of the EAR); and

(iv) Other requirements such as clearing your export with the U.S. Customs Service, keeping records, and completing and documenting license applications.

(2) These steps describe the organization of the EAR, the relationship among the provisions of the EAR, and the appropriate order for you to consider the various provisions of the EAR.

(3) The general information in this part is intended to provide an overview of the steps to be taken for certain requirements in the EAR, though not all of them. Nothing in this part shall be construed as altering or affecting any other authority, regulation, investigation or other enforcement measure provided by or established under any other provision of federal law, including provisions of the EAR.

(b) *Facts about your transaction.* The following five types of facts determine your obligations under the EAR and will be of help to you in reviewing these steps:

(1) *What is it?* What an item is, for export control purposes, depends on its *classification,* which is its place on the Commerce Control List (see part 774 of the EAR).

(2) *Where is it going?* The *country of ultimate destination* for an export or reexport also determines licensing requirements (see parts 738 and 774 of the EAR concerning the Country Chart and the Commerce Control List).

(3) *Who will receive it?* The *ultimate end-user* of your item cannot be a bad end-user. See General Prohibition Four (Denial Orders) in § 736.2(b)(4) and parts 744 and 764 of the EAR for a reference to the list of persons you may not deal with.

(4) *What will they do with it?* The *ultimate end-use* of your item cannot be a bad end-use. See General Prohibition Five (End-Use End-User) in § 736.2(b)(5) and part 744 of the EAR for general end-use and end-user restrictions.

(5) *What else do they do? Conduct* such as contracting, financing, and freight forwarding in support of a proliferation project (as described in § 744.6 of the EAR) may prevent you from dealing with someone.

(c) *Are your items and activities subject to the EAR?* You should first determine whether your commodity, software, or technology is subject to the EAR (see part 734 of the EAR concerning scope), and Steps 1 through 6 help you do that. For exports from the United States, only Steps 1 and 2 are relevant. If you already know that your item or activity is subject to the EAR, you should go on to consider the ten general prohibitions in part 736 of the EAR. If your item or activity is not subject to the EAR, you have no obligations under the EAR and may skip the remaining steps.

(d) *Does your item or activity require a license under one or more of the ten general prohibitions?*—(1) *Brief summary of the ten general prohibitions.* The general prohibitions are found in part 736 of the

EAR and referred to in these steps. They consist, very briefly, of the following:

(i) General Prohibition One (Exports and Reexports): Export and reexport of controlled items to listed countries.

(ii) General Prohibition Two (Parts and Components Reexports): Reexport and export from abroad of foreign-made items incorporating more than a *de minimis* amount of controlled U.S. content.

(iii) General Prohibition Three (Foreign-produced Direct Product Reexports): Reexport and export from abroad of the foreign-produced direct product of U.S. technology and software.

(iv) General Prohibition Four (Denial Orders): Engaging in actions prohibited by a denial order.

(v) General Prohibition Five (End-Use End-User): Export or reexport to prohibited end uses or end users.

(vi) General Prohibition Six (Embargo): Export or reexport to embargoed destinations.

(vii) General Prohibition Seven (U.S. Person Proliferation Activity): Support of proliferation activities.

(viii) General Prohibition Eight (In-Transit): In-transit shipments and items to be unladen from vessels and aircraft.

(ix) General Prohibition Nine (Orders, Terms and Conditions): Violation of any orders, terms, or conditions.

(x) General Prohibition Ten (Knowledge Violation to Occur): Proceeding with transactions with knowledge that a violation has occurred or is about to occur.

(2) *Controls on items on the Commerce Control List (CCL).* If your item or activity is subject to the EAR, you should determine whether any one or more of the ten general prohibitions require a license for your export, reexport, or activity. Steps 7 through 11 refer to classification of your item on the Commerce Control List (CCL) (part 774 of the EAR) and how to use the Country Chart (supplement no. 1 to part 738 of the EAR) to determine whether a license is required based upon the classification of your item. These steps refer to General Prohibitions One (Exports and Reexports), Two (Parts and Components Reexports), and Three (Foreign-Produced Direct Product Reexports) for all countries except: Cuba, Iran, North Korea, and Syria. For these countries, you may skip Steps 7 through 11 and go directly to Step 12.

(3) *Controls on activities.* Steps 12 through 18 refer to General Prohibitions Four through Ten. Those general prohibitions apply to all items subject to the EAR, not merely those items listed on the CCL in part 774 of the EAR. For example, they refer to the general prohibitions for persons denied export privileges, prohibited end-uses and end-users, countries subject to a comprehensive embargo (e.g., Cuba, Iran, North Korea and Syria), prohibited activities of U.S. persons in support of proliferation of weapons of mass destruction, prohibited unlading of shipments, compliance with orders, terms and conditions, and activities when a violation has occurred or is about to occur.

(4) *General prohibitions.* If none of the ten general prohibitions applies, you should skip the steps concerning License Exceptions and for exports from the United States, review Steps 27 through 29 concerning Shipper's Export Declarations to be filed with the U.S. Customs Service, Destination Control Statements for export control documents, and recordkeeping requirements.

(e) *Is a License Exception available to overcome the license requirement?* If you decide by reviewing the CCL in combination with the Country Chart that a license is required for your destination, you should determine whether a License Exception will except you from that requirement. Steps 20 through 24 help you determine whether a License Exception is available. Note that generally License Exceptions are not available to overcome General Prohibitions Four through Ten. However, selected License Exceptions for embargoed destinations are specified in part 746 of the EAR and License Exceptions for short supply controls are specified in part 754 of the EAR. If a License Exception is available and the export is from the United States, you should review Steps 26 through 28 concerning Shipper's Export Declarations to be filed with the U.S. Customs Service,

Destination Control Statements for export control documents and recordkeeping requirements. If a License Exception is not available, go on to Steps 25 through 29.

(f) *How do you apply for a license?* If you must file a license application, you should review the requirements of part 748 of the EAR as suggested by Step 26. Then you should review Steps 27 through 29 concerning Shipper's Export Declarations to be filed with the U.S. Customs Service, Destination Control Statements for export control documents, and recordkeeping requirements.

[61 FR 12740, Mar. 25, 1996, as amended at 62 FR 25453, May 9, 1997; 65 FR 38150, June 19, 2000; 69 FR 23628, Apr. 29, 2004; 69 FR 46074, July 30, 2004; 72 FR 3724, Jan. 26, 2007; 76 FR 77116, Dec. 12, 2011; 78 FR 22705, Apr. 16, 2013; 79 FR 77865, Dec. 29, 2014]

§ 732.2 Steps regarding scope of the EAR.

Steps 1 though 6 are designed to aid you in determining the scope of the EAR. A flow chart describing these steps is contained in supplement no. 2 to part 732.

(a) *Step 1: Items subject to the exclusive jurisdiction of another Federal agency.* This step is relevant for both exports and reexports. Determine whether your item is subject to the exclusive jurisdiction of another Federal Agency as provided in § 734.3 of the EAR.

(1) If your item is subject to the exclusive jurisdiction of another Federal agency, comply with the regulations of that agency. You need not comply with the EAR and may skip the remaining steps.

(2) If your item is not subject to the exclusive jurisdiction of another federal agency, then proceed to Step 2 in paragraph (b) of this section.

(b) *Step 2: Publicly available technology and software.* This step is relevant for both exports and reexports. Determine if your technology or software is publicly available as defined and explained at part 734 of the EAR. Supplement no. 1 to part 734 of the EAR contains several practical examples describing publicly available technology and software that are outside the scope of the EAR. The examples are illustrative, not comprehensive. Note that encryption software classified under ECCN 5D002 on the Commerce Control List (refer to supplement no.1 to Part 774 of the EAR) is subject to the EAR even if publicly available, except for publicly available encryption object code software classified under ECCN 5D002 when the corresponding source code meets the criteria specified in § 740.13(e) of the EAR.

(1) If your technology or software is publicly available, and therefore outside the scope of the EAR, you may proceed with the export or reexport if you are not a U.S. person subject to General Prohibition Seven. If you are a U.S. person, go to Step 15 at § 732.3(j) of this part. If you are a U.S. person and General Prohibition Seven concerning proliferation activity of U.S. persons does not apply, then you may proceed with the export or reexport of your publicly available technology or software. Note that all U.S. persons are subject to the provisions of General Prohibition Seven.

(2) If your technology or software is not publicly available and you are exporting from the United States, skip to the Step 7 in § 732.3(b) of this part concerning the general prohibitions.

(3) If you are exporting items from a foreign country, you should then proceed to Step 3 in paragraph (c) of this section and the other steps concerning the scope of the EAR.

(c) *Step 3: Reexport of U.S.-origin items.* This step is appropriate only for reexporters. For an item in a foreign country, you should determine whether the item is of U.S. origin. If it is of U.S.-origin, skip to Step 7 in § 732.3(b) of this part. If it is not of U.S. origin, then proceed to Step 4 in paragraph (d) of this section.

(d) *Step 4: Foreign-made items incorporating controlled U.S.-origin items.* This step is appropriate only for items that are made outside the United States and not currently located in the United States. Special requirements and restrictions apply to foreign-made items that incorporate U.S.-origin encryption items (see § 734.4(a)(2), (b), and (g) of the EAR).

(1) Determining whether your foreign made item is subject to the EAR. Using the guidance provided in supplement no. 2 to part 734 of the EAR, determine

whether controlled U.S.-origin items are incorporated into the foreign-made item and are above the *de minimis* level set forth in § 734.4 of the EAR.

(2) If no U.S.-origin controlled items are incorporated or if the percentage of incorporated U.S.-origin controlled items are equal to or below the *de minimis* level described in § 734.4 of the EAR, then the foreign-made item is not subject to the EAR by reason of the *de minimis* rules, and you should go on to consider Step 6 regarding the foreign-produced direct product rule.

(3) If the foreign-made item incorporates more than the *de minimis* level of U.S.-origin items, then that item is subject to the EAR and you should skip to Step 7 at § 732.3 of this part and consider the steps regarding all other general prohibitions, license exceptions, and other requirements to determine applicability of these provisions to the foreign-made item.

(e) [Reserved]

(f) *Step 6: Direct product rule.* Foreign items that are the direct product of U.S. technology, software, or plant or major component of a plant made from U.S. technology or software may be subject to the EAR if they meet the conditions of General Prohibition Three in § 736.2(b)(3) of the EAR. Direct products that are subject to the EAR may require a license to be exported from abroad or reexported to certain countries.

(1) *Subject to the EAR.* If your foreign item is captured by the direct product rule (General Prohibition Three), then the item is subject to the EAR and its export from abroad or reexport may require a license. You should next consider the steps regarding all other general prohibitions, license exceptions, and other requirements. If the item is not captured by General Prohibition Three, then you have completed the steps necessary to determine whether the item is subject to the EAR, and you may skip the remaining steps. As described in part 734 of the EAR, items outside the U.S. are subject to the EAR when they are:

(i) U.S.-origin commodities, software, or technology, unless controlled for export exclusively by another U.S. Federal agency or unless publicly available;

(ii) Foreign-origin commodities, software, or technology that are within the scope of General Prohibition Two (*De minimis* rules), or General Prohibition Three (Direct Product rule). However, such foreign-origin items are also outside the scope of the EAR if they are controlled for export exclusively by another U.S. Federal Agency or, if technology or software, are publicly available as described in paragraph (b) of this section.

(2) [Reserved]

[61 FR 12740, Mar. 25, 1996]

EDITORIAL NOTE: For FEDERAL REGISTER citations affecting § 732.2, see the List of CFR Sections Affected, which appears in the Finding Aids section of the printed volume and at *www.fdsys.gov*.

§ 732.3 Steps regarding the ten general prohibitions.

(a) *Introduction.* If your item or activity is subject to the scope of the EAR, you should then consider each of the ten general prohibitions listed in part 736 of the EAR. General Prohibitions One ((Exports and Reexports), Two (Parts and Components Reexports), and Three (Foreign-Produced Direct Product Reexports) (§ 736.2(b) (1), (2), and (3) of the EAR) are product controls that are shaped and limited by parameters specified on the CCL and Country Chart. General Prohibitions Four through Ten are prohibitions on certain activities that are not allowed without authorization from BIS, and these prohibitions apply to all items subject to the EAR unless otherwise specified (§ 736.2(b) (4) through (10) of the EAR).

(b) *Step 7: Classification.* (1) You should classify your items ''subject to the EAR'' in the relevant entry on the CCL, and you may do so on your own without BIS assistance. The CCL includes a supplement no. 4 to part 774—Commerce Control List Order of Review. This supplement establishes the steps (i.e., the order of review) that should be followed in classifying items that are ''subject to the EAR.'' The exporter, reexporter, or transferor is responsible for correctly classifying the items in a transaction, which may involve submitting a classification request to BIS. Failure to classify or have classified the item correctly does

not relieve the person of the obligation to obtain a license when one is required by the EAR.

(2) You have a right to request the applicable classification of your item from BIS, and BIS has a duty to provide that classification to you. For further information on how to obtain classification assistance from BIS, see part 748 of the EAR.

(3) For items subject to the EAR but not listed on the CCL, the proper classification is EAR99. This number is a ''basket'' for items not specified under any CCL entry and appears at the end of each Category on the CCL.

(4) Items subject to temporary CCL controls are classified under the ECCN 0Y521 series (i.e., 0A521, 0B521, 0C521, 0D521 and 0E521) pursuant to § 742.6(a)(7) of the EAR while a determination is being made as to whether classification under a revised or new ECCN or EAR99 designation is appropriate .

(c) *Step 8: Country of ultimate destination*. You should determine the country of ultimate destination. The country of destination determines the applicability of several general prohibitions, License Exceptions, and other requirements. Note that part 754 of the EAR concerning short supply controls is self-contained and is the only location in the EAR that contains both the prohibitions and exceptions applicable to short supply controls.

(d) *Step 9: Reason for control and the Country Chart*—(1) *Reason for control and column identifier within the Export Control Classification Number (ECCN)*. Once you have determined that your item is controlled by a specific ECCN, you must use information contained in the ''License Requirements'' section of that ECCN in combination with the Country Chart to decide whether a license is required under General Prohibitions One, Two, or Three to a particular destination. The CCL and the Country Chart are taken together to define these license requirements. The applicable ECCN will indicate the reason or reasons for control for items within that ECCN. For example, ECCN 6A007 is controlled for national security, missile technology, and anti-terrorism reasons.

(2) *Reason for control within the Country Chart*. With each of the applicable Country Chart column identifiers noted in the correct ECCN, turn to the Country Chart. Locate the correct Country Chart column identifier on the horizontal axis, and determine whether an ''X'' is marked in the cell next to the destination in question. Consult § 738.4 of the EAR for comprehensive instructions on using the Country Chart and a detailed example.

(i) An ''X'' in the cell or cells for the relevant country and reason(s) for control column indicates that a license is required for General Prohibitions One (Exports and Reexports in the Form Received), Two (Parts and Components Reexports), and Three (Foreign-Produced Direct Product Reexports). (See § 736.2 (b)(1), (b)(2), and (b)(3) of the EAR).

(ii) If one or more cells have an ''X'' in the relevant column, a license is required unless you qualify for a License Exception described in part 740 of the EAR. If a cell does not contain an ''X'' for your destination in one or more relevant columns, a license is not required under the CCL and the Country Chart.

(iii) Additional controls may apply to your export. You must go on to steps 12 through 18 described in paragraphs (g) to (m) of this section to determine whether additional limits described in General Prohibition Two (Parts and Components Reexports) and General Prohibition Three (Foreign-Produced Direct Product Reexports) apply to your proposed transaction. If you are exporting an item from the United States, you should skip Step 10 and Step 11. Proceed directly to Step 12 in paragraph (g) of this section.

(3) *License requirements not on the Country Chart*. There are two instances where the Country Chart cannot be used to determine if a license is required. Items controlled for short supply reasons are not governed by the Country Chart. Part 754 of the EAR contains license requirements and License Exceptions for items subject to short supply controls. A limited number of ECCNs contained on the CCL do not identify a Country Chart column identifier. In these instances, the ECCN states whether a license is required and

for which destinations. See § 738.3(a) of the EAR for a list of the ECCNs for which you do not need to consult the Country Chart to determine licensing requirements.

(4) *Destinations subject to embargo and other special controls provisions.* The Country Chart does not apply to Cuba, Iran, North Korea, and Syria. For those countries you should review the provisions at part 746 of the EAR and may skip this step concerning the Country Chart. For Iraq and Russia, the Country Chart provides for certain license requirements, and part 746 of the EAR provides additional requirements.

(5) *Items subject to the EAR but not on the CCL.* Items subject to the EAR that are not on the CCL are properly classified EAR99. For such items, you may skip this step and proceed directly with Step 12 in paragraph (g) of this section.

(e) *Step 10: Foreign-made items incorporating controlled U.S.-origin items and the de minimis rules*—(1) *De minimis rules.* If your foreign-made item abroad is a foreign-made commodity that incorporates controlled U.S.-origin commodities, a foreign-made commodity that is 'bundled' with controlled U.S.-origin software, foreign-made software that is commingled with controlled U.S.-origin software, or foreign-made technology that is commingled with controlled U.S.-origin technology, then it is subject to the EAR if the U.S.-origin controlled content exceeds the *de minimis* levels described in Sec. 734.4 of the EAR.

(2) *Guidance for calculations.* For guidance on how to calculate the U.S.-controlled content, refer to supplement no. 2 to part 734 of the EAR. Note, U.S.-origin technology controlled by ECCN 9E003.a.1 through a.11, and .h, and related controls, and encryption software controlled for ''EI'' reasons under ECCN 5D002 (not eligible for *de minimis* treatment pursuant to § 734.4(b) of the EAR) or encryption technology controlled for ''EI'' reasons under ECCN 5E002 (not eligible for *de minimis* treatment pursuant to § 734.4(a)(2) of the EAR) do not lose their U.S.-origin when redrawn, used, consulted, or otherwise commingled abroad in any respect with other software or technology of any other origin. Therefore, any subsequent or similar software or technology prepared or engineered abroad for the design, construction, operation, or maintenance of any plant or equipment, or part thereof, which is based on or uses any such U.S.-origin software or technology is subject to the EAR.

(f) *Step 11: Direct product rule—General Prohibition Three.* Items located outside the U.S. that are also produced outside the U.S. from U.S. technology or software or a plant or major component of a plant made from U.S. technology or software may be subject to the EAR if they meet the conditions of General Prohibition Three in § 736.2(b)(3) of the EAR. Direct products that are subject to the EAR may require a license to be exported from abroad or reexported to specified countries. If your foreign item is captured by the direct product rule (General Prohibition Three), then your export from abroad or reexport is subject to the EAR. You should next consider the steps regarding all other general prohibitions, license exceptions, and other requirements. If your item is not captured by General Prohibition Three, then your export from abroad or reexport is not subject to the EAR. You have completed the steps necessary to determine whether your transaction is subject to the EAR, and you may skip the remaining steps.

(g) *Step 12: Persons denied export privileges.* (1) Determine whether your transferee, ultimate end-user, any intermediate consignee, or any other party to a transaction is a person denied export privileges (see part 764 of the EAR). It is a violation of the EAR to engage in any activity that violates the terms or conditions of a denial order. General Prohibition Four (Denial Orders) applies to all items subject to the EAR, *i.e.*, both items on the CCL and within EAR99.

(2) There are no License Exceptions to General Prohibition Four (Denial Orders). The prohibition concerning persons denied export privileges may be overcome only by a specific authorization from BIS, something that is rarely granted.

(h) *STEP 13: Prohibited end-uses and end-users.* (1) Review the end-uses and end-users prohibited under General Prohibition Five (End-Use and End-User) (§ 736.2(b)(5) of the EAR) described

in part 744 of the EAR. Part 744 of the EAR contains all the end-use and end-user license requirements, and those are in addition to the license requirements under General Prohibitions One (Exports and Reexports), Two (Parts and Components Reexports), and Three (Foreign-produced Direct Product Reexports). Unless otherwise indicated, the license requirements of General Prohibition Five (End-Use and End-User) described in part 744 of the EAR apply to all items subject to the EAR, i.e. both items on the CCL and within EAR99. Moreover, the requirements of General Prohibition Five (End-Use and End-User) are in addition to various end-use and end-user limitations placed on certain License Exceptions.

(2) Under License Exception TSU (§ 740.13 of the EAR), operation technology and software, sales technology, and software updates overcome General Prohibition Five (End-Use and End-User) (§ 736.2(b)(5) of the EAR) if all terms and conditions of these provisions are met by the exporter or reexporter.

(i) *Step 14: Embargoed countries and special destinations.* If your destination for any item is Cuba, Iran, Iraq, North Korea, or Syria, you must consider the requirements of parts 742 and 746 of the EAR. Unless otherwise indicated, General Prohibition Six (Embargo) applies to all items subject to the EAR, i.e. both items on the CCL and within EAR99. See § 746.1(b) for destinations subject to limited sanctions under United Nations Security Council arms embargoes. See § 746.5 for Russian Industry Sector Sanctions. You may not make an export or reexport contrary to the provisions of part 746 of the EAR without a license unless:

(1) You are exporting or reexporting only publicly available technology or software or other items outside the scope of the EAR, or

(2) You qualify for a License Exception referenced in part 746 of the EAR concerning embargoed destinations. You may not use a License Exception described in part 740 of the EAR to overcome General Prohibition Six (Embargo) (§ 736.2(b)(6) of the EAR) unless it is specifically authorized in part 746 of the EAR. Note that part 754 of the EAR concerning short supply controls is self-contained and is the only location in the EAR for both the prohibitions and exceptions applicable to short supply controls.

(j) *Step 15: Proliferation activity of U.S. persons unrelated to exports and reexports.* (1) Review the scope of activity prohibited by General Prohibition Seven (U.S. Person Proliferation Activity) (§ 736.2(b)(7) of the EAR) as that activity is described in § 744.6 of the EAR. Keep in mind that such activity is not limited to exports and reexports and is not limited to items subject to General Prohibition One (Exports and Reexports), Two (Parts and Components Reexports), and Three (Foreign-Produced Direct Product Reexports). Moreover, such activity extends to services and dealing in wholly foreign-origin items in support of the specified proliferation activity and is not limited to items listed on the CCL or included in EAR99.

(2) Review the definition of U.S. Person in part 744 of the EAR.

(k) *Step 16: In-transit.* Shippers and operators of vessels or aircraft should review General Prohibition Eight (In-Transit) to determine the countries in which you may not unladen or ship certain items in-transit. General Prohibition Eight applies to all items subject to the EAR, i.e. both items on the CCL and within EAR99.

(l) *Step 17: Review orders, terms, and conditions.* Review the orders, terms, and conditions applicable to your transaction. General Prohibition Nine (Orders, Terms, and Conditions) prohibits the violation of any orders, terms, and conditions imposed under the EAR. Terms and conditions are frequently contained in licenses. In addition, the ten general prohibitions (part 736 of the EAR) and the License Exceptions (part 740 of the EAR) impose terms and conditions or limitations on your proposed transactions and use of License Exceptions. A given license or License Exception may not be used unless each relevant term or condition is met.

(m) *Step 18: Review the ''Know Your Customer'' Guidance and General Prohibition Ten (Knowledge Violation to Occur).* License requirements under the EAR are determined solely by the classification, end-use, end-user, ultimate

destination, and conduct of U.S. persons. Supplement no. 1 to part 732 of the EAR is intended to provide helpful guidance regarding the process for the evaluation of information about customers, end-uses, and end-users. General Prohibition Ten (Knowledge Violation to Occur) prohibits anyone from proceeding with a transaction with knowledge that a violation of the EAR has occurred or is about to occur. It also prohibits related shipping, financing, and other services. General Prohibition Ten applies to all items subject to the EAR, i.e. both items on the CCL and within EAR99.

(n) *Step 19: Complete the review of the general prohibitions*. After completion of Steps described in this section and review of all ten general prohibitions in part 736 of the EAR, including cross-referenced regulations in the EAR, you will know which, if any, of the ten general prohibitions of the EAR apply to you and your contemplated transaction or activity.

(1) If none of the ten general prohibitions is applicable to your export from the United States, no license from BIS is required, you do not need to qualify for a License Exception under part 740 of the EAR. You should skip the Steps in § 732.4 of this part regarding License Exceptions and proceed directly to the Steps in § 732.5 of this part regarding recordkeeping, clearing the Bureau of Customs and Border Protection with the appropriate Shipper's Export Declaration or Automated Export System record, and using the required Destination Control Statement.

(2) If none of the ten general prohibitions is applicable to your reexport or export from abroad, no license is required and you should skip all remaining Steps.

(3) If one or more of the ten general prohibitions are applicable, continue with the remaining steps.

[61 FR 12740, Mar. 25, 1996]

EDITORIAL NOTE: For FEDERAL REGISTER citations affecting § 732.3, see the List of CFR Sections Affected, which appears in the Finding Aids section of the printed volume and at *www.fdsys.gov*.

§ 732.4 Steps regarding License Exceptions.

(a) *Introduction to Steps for License Exceptions*. If your export or reexport is subject to the EAR and is subject to General Prohibitions One (Exports and Reexports), Two (Parts and Components Reexports), or Three (Foreign-Produced Direct Product Reexports), consider the steps listed in paragraph (b) of this section. If your export or reexport is subject to General Prohibitions Four (Denial Orders), Seven (U.S. Person Proliferation Activity), Eight (In-Transit), Nine (Orders, Terms, and Conditions), or Ten (Knowledge Violation to Occur), there are no License Exceptions available for your export or reexport. If your export is subject to General Prohibition Five (End-Use End-User), consult part 744 of the EAR. If your export or reexport is subject to General Prohibition Six (Embargo), consult part 746 of the EAR for applicable License Exceptions.

(b) *Steps for License Exceptions*—(1) *Step 20: Applicability of General Prohibitions*. Determine whether any one or more of the general prohibitions described in § 736.2(b) of the EAR apply to your export or reexport. If no general prohibition applies to your export or reexport, then you may proceed with your export or reexport and need not review part 740 of the EAR regarding License Exceptions. You are reminded of your recordkeeping obligations related to the clearance of the U.S. Customs Service provided in parts 762 and 758 of the EAR.

(2) *Step 21: Applicability of restrictions on all License Exceptions*. Determine whether any one or more of the restrictions in § 740.2 of the EAR applies to your export or reexport. If any one or more of these restrictions apply, there are no License Exceptions available to you, and you must either obtain a license or refrain from the export or reexport.

(3) *Step 22: Terms and conditions of the License Exceptions*. (i) If none of the restrictions in § 740.2 of the EAR applies, then review each of the License Exceptions to determine whether any one of them authorizes your export or reexport. Eligibility for License Exceptions is based on the item, the country of ultimate destination, the end-use, and

the end-user, along with any special conditions imposed within a specific License Exception.

(ii) You may meet the conditions for more than one License Exception. Moreover, although you may not qualify for some License Exceptions you may qualify for others. Review the broadest License Exceptions first, and use any License Exception available to you. You are not required to use the most restrictive applicable License Exception. If you fail to qualify for the License Exception that you first consider, you may consider any other License Exception until you have determined that no License Exception is available.

(iii) License Exceptions TMP, RPL, BAG, AVS, GOV, and TSU authorize exports notwithstanding the provisions of the CCL. List-based License Exceptions (LVS, GBS, CIV, TSR, and APP) are available only to the extent specified on the CCL. Part 740 of the EAR provides authorization for reexports only to the extent each License Exception expressly authorizes reexports. Some ECCNs contain License Exception STA exclusion paragraphs. Those paragraphs delineate items excluded from the License Exception STA provisions in §740.20(c)(2) of the EAR. License Exception APR authorizes reexports only.

(iv) If you are exporting under License Exceptions GBS, CIV, LVS, STA, APP, TSR or GOV, you should review §743.1 of the EAR to determine the applicability of certain reporting requirements. If you are exporting under License Exceptions LVS, TMP, RPL, STA, or GOV and your item is classified in the ''600 series,'' you should review §743.4 of the EAR to determine the applicability of certain reporting requirements for conventional arms exports.

(4) *Step 23: Scope of License Exceptions.* Some License Exceptions are limited by country or by type of item.

(i) Countries are arranged in country groups for ease of reference. For a listing of country groups, please refer to supplement no. 1 to part 740 of the EAR. Unless otherwise indicated in a License Exception, License Exceptions do not apply to any exports or reexports to embargoed destinations. If your export or reexport is subject to General Prohibition Six (Embargo) for embargoed destinations, License Exceptions are only available to the extent specifically provided in part 746 of the EAR concerning embargoed destinations.

(ii) Special commodity controls apply to short supply items. No License Exceptions described in part 740 of the EAR may be used for items listed on the CCL as controlled for Short Supply reasons. License Exceptions for short supply items are found in part 754 of the EAR.

(5) *Step 24: Compliance with all terms and conditions.* If a License Exception is available, you may proceed with your export or reexport. However, you must meet all the terms and conditions required by the License Exception that you determined authorized your export or reexport. You must also consult part 758 and 762 of the EAR to determine your recordkeeping and documentation requirements.

(6) *Step 25: License requirements.* If no License Exception is available, then you must either obtain a license before proceeding with your export or reexport or you must refrain from the proposed export or reexport.

(7) *Step 26: License applications.* (i) If you are going to file a license application with BIS, you should first review the requirements in part 748 of the EAR. Exporters, reexporters, and transferors should review the instructions concerning applications and required support documents prior to submitting an application for a license.

(ii) If you are going to file a license application with BIS for the export, reexport or in-country transfer for an aircraft controlled under ECCNs 9A610.a, §740.20(g) permits you to request in the application that subsequent exports of the type of aircraft at issue be eligible for export under License Exception STA. The types of aircraft controlled under ECCN 9A610.a that have been determined to be eligible for License Exception STA pursuant to §740.20(g) are identified in the License Exceptions paragraph of ECCN 9A610. Supplement no. 2 to part 748, paragraph (w) (License Exception STA eligibility requests), contains the instructions for such applications.

NOTE TO PARAGRAPH (b)(7)(ii): If you intend to use License Exception STA, return to paragraphs (a) and then (b) of this section to review the Steps regarding the use of license exceptions.

[61 FR 12740, Mar. 25, 1996, as amended at 61 FR 64274, Dec. 4, 1996; 63 FR 2456, Jan. 15, 1998; 71 FR 20883, Apr. 24, 2006; 76 FR 35286, June 16, 2011; 78 FR 22706, Apr. 16, 2013]

§ 732.5 Steps regarding Electronic Export Information (EEI) requirements, Destination Control Statements, and recordkeeping.

(a) *Step 27: Electronic Export Information (EEI) filing requirements*. Exporters or agents authorized to file EEI to the Automated Export System (AES), should review § 758.1 of the EAR to determine when the EAR requires EEI to be filed and what EEI data elements the EAR requires to be included. More detailed information about EEI filing procedures and requirements may be found in the Bureau of Census Foreign Trade Regulations (FTR) at 15 CFR Part 30. Reexporters and firms exporting from abroad may skip Steps 27 through 29 and proceed directly to § 732.6 of the EAR.

(1) *License code/license exception code (license code)*. You must report the correct license code that corresponds with your license authority (license or license exception) or designation (No License Required (NLR)) for your export on the EEI filing, as appropriate. See § 758.1(g) of the EAR and 15 CFR 30.6(a)(23) and Part III of Appendix B to 15 CFR Part 30 of the FTR. Generally, conflicts of data elements with license exception criteria, e.g., ECCN or destination, will result in a fatal error in the AES system. By reporting a license code for a license exception on an EEI filing you are certifying that your transaction meets the criteria of that license exception. By reporting a license code of NLR you are certifying that no license is required for your export.

(2) *License number*. If you are exporting under the authority of a license, you must report the license number on the EEI filing. See 15 CFR 30.6(b)(5) of the FTR.

(3) *Item description*. You must report an item description identical to the item description on the license when a license is required, or report an item description sufficient in detail to permit review by the U.S. Government and verification of the Schedule B Number or the Harmonized Tariff Schedule of the United States (HTS) for license exception exports or exports for which No License is Required (NLR). See § 758.1(g) of the EAR; and 15 CFR 30.6(a)(13) of the FTR.

(4) *Entering the ECCN*. You must report the correct Export Control Classification Number (ECCN) or ''EAR99'' for items that are not classified under an ECCN on the EEI filing for all licensed and license exception exports, and ''No License Required'' (NLR) exports of items having a reason for control other than or in addition to anti-terrorism (AT). The only exception to this requirement would be the return of unwanted foreign origin items, meeting the provisions of License Exception TMP, under § 740.9(b)(3) of the EAR. See § 758.1(g) of the EAR and 15 CFR 30.6(b)(6) of the FTR.

(b) *Step 28: Destination Control Statement*. The Destination Control Statement (DCS) must be entered on the invoice and on the bill of lading, air waybill, or other export control document that accompanies the shipment from its point of origin in the United States to the ultimate consignee or end-user abroad. The person responsible for preparation of those documents is responsible for entry of the DCS. The DCS is required for all exports from the United States of items on the Commerce Control List and is not required for items classified as EAR99, unless the export may be made under License Exception BAG or GFT (see part 740 of the EAR). DCS requirements do not apply to reexports. See § 758.6 of the EAR.

(c) *Step 29: Recordkeeping*. Records of transactions subject to the EAR must be maintained for five years in accordance with the recordkeeping provisions of part 762 of the EAR.

[65 FR 42568, July 10, 2000, as amended at 79 FR 4615, Jan. 29, 2014; 80 FR 51730, Aug. 26, 2015]

§ 732.6 Steps for other requirements.

Sections 732.1 through 732.4 of this part are useful in determining the license requirements that apply to you. Other portions of the EAR impose

other obligations and requirements. Some of them are:

(a) Requirements relating to the use of a license in § 758.4 of the EAR.

(b) Obligations of carriers, forwarders, exporters and others to take specific steps and prepare and deliver certain documents to assure that items subject to the EAR are delivered to the destination to which they are licensed or authorized by a License Exception or some other provision of the regulations in § 758.1 through § 758.6 of the EAR.

(c) Duty of carriers to return or unload shipments at the direction of U.S. Government officials (see § 758.8 of the EAR).

(d) [Reserved]

(e) Recordkeeping requirements imposed in part 762 of the EAR.

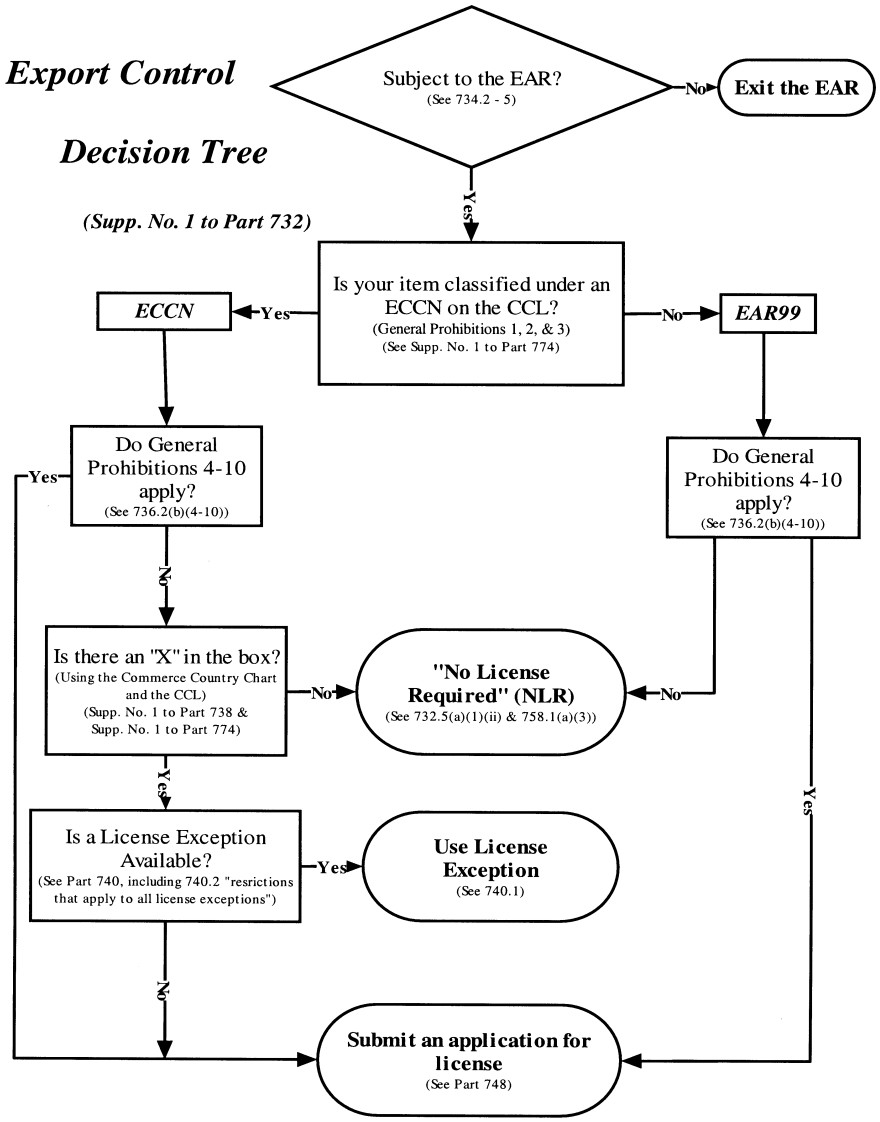
(f) Requirements of part 764 of the EAR to disclose facts that may come to your attention after you file a license application or make other statements to the government concerning a transaction or proposed transaction that is subject to the EAR.

(g) Certain obligations imposed by part 760 of the EAR on parties who receive requests to take actions related to foreign boycotts and prohibits certain actions relating to those boycotts.

[61 FR 12740, Mar. 25, 1996, as amended at 65 FR 42568, July 10, 2000; 80 FR 51730, Aug. 26, 2015]

SUPPLEMENT NO. 1 TO PART 732—DECISION TREE

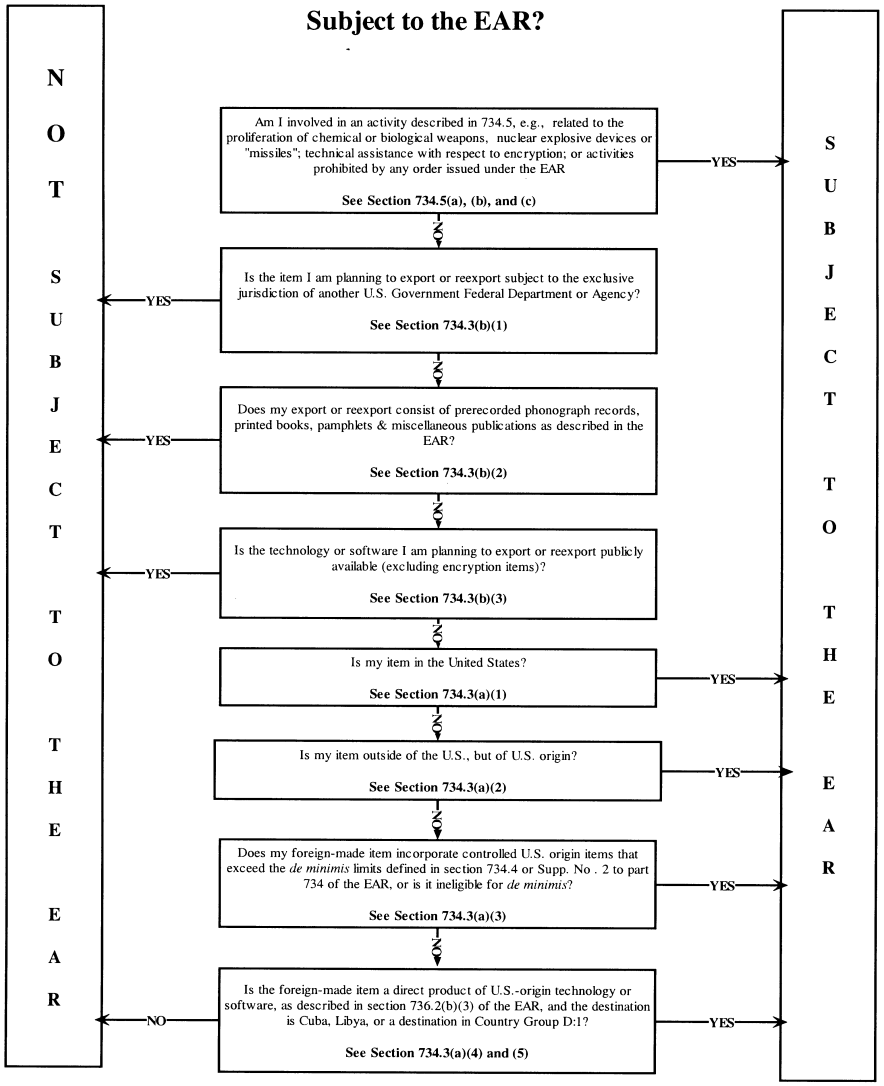
SUPPLEMENT NO. 1 TO PART 732 - EXPORT CONTROL DECISION TREE



[69 FR 5687, Feb. 6, 2004]

SUPPLEMENT NO. 2 TO PART 732—SUBJECT TO THE EAR?

SUPPLEMENT NO. 2 TO PART 732 - AM I SUBJECT TO THE EAR



[69 FR 5687, Feb. 6, 2004]

SUPPLEMENT NO. 3 TO PART 732—BIS'S ''KNOW YOUR CUSTOMER'' GUIDANCE AND RED FLAGS

''Know Your Customer'' Guidance

Various requirements of the EAR are dependent upon a person's knowledge of the end-use, end-user, ultimate destination, or other facts relating to a transaction or activity. These provisions include the nonproliferation-related ''catch-all'' sections and the prohibition against proceeding with a transaction with knowledge that a violation of the EAR has occurred or is about to occur.

(a) BIS provides the following guidance on how individuals and firms should act under this knowledge standard. This guidance does not change or interpret the EAR.

(1) *Decide whether there are ''red flags''.* Take into account any abnormal circumstances in a transaction that indicate that the export may be destined for an inappropriate end-use, end-user, or destination. Such circumstances are referred to as ''red flags''. Included among examples of red flags are orders for items that are inconsistent with the needs of the purchaser, a customer declining installation and testing when included in the sales price or when normally requested, or requests for equipment configurations that are incompatible with the stated destination (e.g., 120 volts in a country with 220 volts). Commerce has developed lists of such red flags that are not all-inclusive but are intended to illustrate the types of circumstances that should cause reasonable suspicion that a transaction will violate the EAR.

(2) *If there are ''red flags'', inquire.* If there are no ''red flags'' in the information that comes to your firm, you should be able to proceed with a transaction in reliance on information you have received. That is, absent ''red flags'' (or an express requirement in the EAR), there is no affirmative duty upon exporters to inquire, verify, or otherwise ''go behind'' the customer's representations. However, when ''red flags'' are raised in information that comes to your firm, you have a duty to check out the suspicious circumstances and inquire about the end-use, end-user, or ultimate country of destination. The duty to check out ''red flags'' is not confined to the use of License Exceptions affected by the ''know'' or ''reason to know'' language in the EAR. Applicants for licenses are required by part 748 of the EAR to obtain documentary evidence concerning the transaction, and misrepresentation or concealment of material facts is prohibited, both in the licensing process and in all export control documents. You can rely upon representations from your customer and repeat them in the documents you file unless red flags oblige you to take verification steps.

(3) *Do not self-blind.* Do not cut off the flow of information that comes to your firm in the normal course of business. For example, do not instruct the sales force to tell potential customers to refrain from discussing the actual end-use, end-user, and ultimate country of destination for the product your firm is seeking to sell. Do not put on blinders that prevent the learning of relevant information. An affirmative policy of steps to avoid ''bad'' information would not insulate a company from liability, and it would usually be considered an aggravating factor in an enforcement proceeding.

(4) *Employees need to know how to handle ''red flags''.* Knowledge possessed by an employee of a company can be imputed to a firm so as to make it liable for a violation. This makes it important for firms to establish clear policies and effective compliance procedures to ensure that such knowledge about transactions can be evaluated by responsible senior officials. Failure to do so could be regarded as a form of self-blinding.

(5) *Reevaluate all the information after the inquiry.* The purpose of this inquiry and reevaluation is to determine whether the ''red flags'' can be explained or justified. If they can, you may proceed with the transaction. If the ''red flags'' cannot be explained or justified and you proceed, you run the risk of having had ''knowledge'' that would make your action a violation of the EAR.

(6) *Refrain from the transaction or advise BIS and wait.* If you continue to have reasons for concern after your inquiry, then you should either refrain from the transaction or submit all the relevant information to BIS in the form of an application for a license or in such other form as BIS may specify.

(b) Industry has an important role to play in preventing exports and reexports contrary to the national security and foreign policy interests of the United States. BIS will continue to work in partnership with industry to make this front line of defense effective, while minimizing the regulatory burden on exporters. If you have any question about whether you have encountered a ''red flag'', you may contact the Office of Export Enforcement at 1–800–424–2980 or the Office of Exporter Services at (202) 482–4532.

RED FLAGS

Possible indicators that an unlawful diversion might be planned by your customer include the following:

1. The customer or purchasing agent is reluctant to offer information about the end-use of a product.

2. The product's capabilities do not fit the buyer's line of business; for example, a small bakery places an order for several sophisticated lasers.

3. The product ordered is incompatible with the technical level of the country to

which the product is being shipped. For example, semiconductor manufacturing equipment would be of little use in a country without an electronics industry.

4. The customer has little or no business background.

5. The customer is willing to pay cash for a very expensive item when the terms of the sale call for financing.

6. The customer is unfamiliar with the product's performance characteristics but still wants the product.

7. Routine installation, training or maintenance services are declined by the customer.

8. Delivery dates are vague, or deliveries are planned for out-of-the-way destinations.

9. A freight forwarding firm is listed as the product's final destination.

10. The shipping route is abnormal for the product and destination.

11. Packaging is inconsistent with the stated method of shipment or destination.

12. When questioned, the buyer is evasive or unclear about whether the purchased product is for domestic use, export or reexport.

13. You receive an order for ''parts'' or ''components'' for an end item in 9x515 or the ''600 series.'' The requested ''parts'' or ''components'' may be eligible for License Exception STA, another authorization, or may not require a destination-based license requirement for the country in question. However, the requested ''parts'' or ''components'' would be sufficient to service one hundred of the 9x515 or ''600 series'' end items, but you ''know'' the country does not have those types of end items or only has two of those end items.

14. The customer indicates or the facts pertaining to the proposed export suggest that a 9x515 or ''600 series'' item may be reexported to a destination listed in Country Group D:5 (see supplement no. 1 to part 740 of the EAR).

[61 FR 12740, Mar. 25, 1996. Redesignated and amended at 62 FR 25453, 25456, May 9, 1997; 78 FR 22706, Apr. 16, 2013; 79 FR 27434, May 13, 2014]

PART 734—SCOPE OF THE EXPORT ADMINISTRATION REGULATIONS

Sec.

734.1 Introduction.
734.2 Subject to the EAR.
734.3 Items subject to the EAR.
734.4 *De minimis* U.S. content.
734.5 Activities of U.S. and foreign persons subject to the EAR.
734.6 Assistance available from BIS for determining licensing and other requirements.
734.7 Published.
734.8 ''Technology'' or ''software'' that arises during, or results from, fundamental research.
734.9 [Reserved]
734.10 Patents.
734.11 [Reserved]
734.12 Effect on foreign laws and regulations.
734.13 Export.
734.14 Reexport.
734.15 Release.
734.16 Transfer (in-country).
734.17 Export of encryption source code and object code software.
734.18 Activities that are not exports, reexports, or transfers.
734.19 Transfer of access information.
734.20 Activities that are not deemed reexports.

SUPPLEMENT NO. 1 TO PART 734 [RESERVED]
SUPPLEMENT NO. 2 TO PART 734—GUIDELINES FOR *De Minimis* RULES

AUTHORITY: 50 U.S.C. 4601 *et seq.;* 50 U.S.C. 1701 *et seq.;* E.O. 12938, 59 FR 59099, 3 CFR, 1994 Comp., p. 950; E.O. 13020, 61 FR 54079, 3 CFR, 1996 Comp., p. 219; E.O. 13026, 61 FR 58767, 3 CFR, 1996 Comp., p. 228; E.O. 13222, 66 FR 44025, 3 CFR, 2001 Comp., p. 783; E.O. 13637, 78 FR 16129, 3 CFR, 2014 Comp., p. 223; Notice of November 12, 2015, 80 FR 70667 (November 13, 2015); Notice of August 4, 2016, 81 FR 52587 (August 8, 2016).

§ 734.1 Introduction.

(a) In this part, references to the Export Administration Regulations (EAR) are references to 15 CFR chapter VII, subchapter C. This part describes the scope of the Export Administration Regulations (EAR) and explains certain key terms and principles used in the EAR. This part provides the rules you need to use to determine whether items and activities are subject to the EAR. This part is the first step in determining your obligations under the EAR. If neither your item nor your activity is subject to the EAR, then you do not have any obligations under the EAR and you do not need to review other parts of the EAR. If you already know that your item or activity is subject to the EAR, you do not need to review this part and you can go on to review other parts of the EAR to determine your obligations. This part also describes certain key terms and principles used in the EAR. Specifically, it includes the following terms: ''subject to the EAR,'' ''items subject to the EAR,'' ''export,'' and ''reexport.'' These and other terms are also included in

part 772 of the EAR, Definitions of Terms, and you should consult part 772 of the EAR for the meaning of terms used in the EAR. Finally, this part makes clear that compliance with the EAR does not relieve any obligations imposed under foreign laws.

(b) This part does not address any of the provisions set forth in part 760 of the EAR, Restrictive Trade Practices or Boycotts.

(c) This part does not define the scope of legal authority to regulate exports, including reexports, or activities found in the Export Administration Act and other statutes. What this part does do is set forth the extent to which such legal authority has been exercised through the EAR.

[61 FR 12746, Mar. 25, 1996, as amended at 69 FR 5690, Feb. 6, 2004]

§ 734.2 Subject to the EAR.

(a) *Subject to the EAR—Definition.* (1) ''Subject to the EAR'' is a term used in the EAR to describe those items and activities over which BIS exercises regulatory jurisdiction under the EAR. Conversely, items and activities that are not subject to the EAR are outside the regulatory jurisdiction of the EAR and are not affected by these regulations. The items and activities subject to the EAR are described in §§ 734.2 through 734.5 of this part. You should review the Commerce Control List (CCL) and any applicable parts of the EAR to determine whether an item or activity is subject to the EAR. However, if you need help in determining whether an item or activity is subject to the EAR, see § 734.6 of this part. Publicly available technology and software not subject to the EAR are described in §§ 734.7 through 734.11 and supplement no. 1 to this part.

(2) Items and activities subject to the EAR may also be controlled under export-related programs administered by other agencies. Items and activities subject to the EAR are not necessarily exempted from the control programs of other agencies. Although BIS and other agencies that maintain controls for national security and foreign policy reasons try to minimize overlapping jurisdiction, you should be aware that in some instances you may have to comply with more than one regulatory program.

(3) The term ''subject to the EAR'' should not be confused with licensing or other requirements imposed in other parts of the EAR. Just because an item or activity is subject to the EAR does not mean that a license or other requirement automatically applies. A license or other requirement applies only in those cases where other parts of the EAR impose a licensing or other requirement on such items or activities.

(b) [Reserved]

[61 FR 12746, Mar. 25, 1996, as amended at 61 FR 68578, Dec. 30, 1996; 63 FR 50520, Sept. 22, 1998; 64 FR 13339, Mar. 18, 1999; 65 FR 2496, Jan. 14, 2000; 67 FR 38860, June 6, 2002; 72 FR 3945, Jan. 29, 2007; 76 FR 1062, Jan. 7, 2011; 81 FR 35602, June 3, 2016]

§ 734.3 Items subject to the EAR.

(a) Except for items excluded in paragraph (b) of this section, the following items are subject to the EAR:

(1) All items in the United States, including in a U.S. Foreign Trade Zone or moving intransit through the United States from one foreign country to another;

(2) All U.S. origin items wherever located;

(3) Foreign-made commodities that incorporate controlled U.S.-origin commodities, foreign-made commodities that are 'bundled' with controlled U.S.-origin software, foreign-made software that is commingled with controlled U.S.-origin software, and foreign-made technology that is commingled with controlled U.S.-origin technology:

(i) In any quantity, as described in § 734.4(a) of this part; or

(ii) In quantities exceeding the *de minimis* levels, as described in § 734.4(c) or § 734.4(d) of this part;

(4) Certain foreign-made direct products of U.S. origin technology or software, as described in § 736.2(b)(3) of the EAR. The term ''direct product'' means the immediate product (including processes and services) produced directly by the use of technology or software; and

NOTE TO PARAGRAPH (a)(4): Certain foreign-manufactured items developed or produced from U.S.-origin encryption items exported pursuant to License Exception ENC are subject to the EAR. See § 740.17(a) of the EAR.

(5) Certain commodities produced by any plant or major component of a plant located outside the United States that is a direct product of U.S.-origin technology or software, as described in § 736.2(b)(3) of the EAR.

(b) The following are not subject to the EAR:

(1) Items that are exclusively controlled for export or reexport by the following departments and agencies of the U.S. Government which regulate exports or reexports for national security or foreign policy purposes:

(i) *Department of State*. The International Traffic in Arms Regulations (22 CFR parts 120–130) administered by the Directorate of Defense Trade Controls relate to defense articles and defense services on the U.S. Munitions List (22 CFR part 121). Section 38 of the Arms Export Control Act (22 U.S.C. 2778). (Also see paragraph (b)(1)(vi) of this section).

NOTE TO PARAGRAPH (b)(1)(i): If a defense article or service is controlled by the U.S. Munitions List set forth in the International Traffic in Arms Regulations, its export and temporary import is regulated by the Department of State. The President has delegated the authority to control defense articles and services for purposes of permanent import to the Attorney General. The defense articles and services controlled by the Secretary of State and the Attorney General collectively comprise the U.S. Munitions List under the Arms Export Control Act (AECA). As the Attorney General exercises independent delegated authority to designate defense articles and services for purposes of permanent import controls, the permanent import control list administered by the Department of Justice has been separately labeled the U.S. Munitions Import List (27 CFR Part 447) to distinguish it from the list set out in the International Traffic in Arms Regulations. In carrying out the functions delegated to the Attorney General pursuant to the AECA, the Attorney General shall be guided by the views of the Secretary of State on matters affecting world peace, and the external security and foreign policy of the United States.

(ii) *Treasury Department*, *Office of Foreign Assets Control (OFAC)*. Regulations administered by OFAC implement broad controls and embargo transactions with certain foreign countries. These regulations include controls on exports and reexports to certain countries (31 CFR chapter V). Trading with the Enemy Act (50 U.S.C. app. section 1 *et seq.*), and International Emergency Economic Powers Act (50 U.S.C. 1701, *et seq.*)

(iii) *U.S. Nuclear Regulatory Commission (NRC)*. Regulations administered by NRC control the export and reexport of commodities related to nuclear reactor vessels (10 CFR part 110). Atomic Energy Act of 1954, as amended (42 U.S.C. part 2011 *et seq.*).

(iv) *Department of Energy (DOE)*. Regulations administered by DOE control the export and reexport of technology related to the production of special nuclear materials (10 CFR part 810). Atomic Energy Act of 1954, as amended (42 U.S.C. section 2011 *et seq.*).

(v) *Patent and Trademark Office (PTO)*. Regulations administered by PTO provide for the export to a foreign country of unclassified technology in the form of a patent application or an amendment, modification, or supplement thereto or division thereof (37 CFR part 5). BIS has delegated authority under the Export Administration Act to the PTO to approve exports and reexports of such technology which is subject to the EAR. Exports and reexports of such technology not approved under PTO regulations must comply with the EAR.

(vi) *Department of Defense (DoD) and Department of State Foreign Military Sales (FMS) Program*. Items that are subject to the EAR that are sold, leased or loaned by the Department of Defense to a foreign country or international organization under the FMS Program of the Arms Export Control Act pursuant to a Letter of Offer and Acceptance (LOA) authorizing such transfers are *not* ''subject to the EAR,'' but rather, are subject to the authority of the Arms Export Control Act.

(2) Prerecorded phonograph records reproducing in whole or in part, the content of printed books, pamphlets, and miscellaneous publications, including newspapers and periodicals; printed books, pamphlets, and miscellaneous publications including bound newspapers and periodicals; children's picture and painting books; newspaper and periodicals, unbound, excluding waste; music books; sheet music; calendars and calendar blocks, paper; maps, hydrographical charts, atlases, gazetteers, globe covers, and globes

(terrestrial and celestial); exposed and developed microfilm reproducing, in whole or in part, the content of any of the above; exposed and developed motion picture film and soundtrack; and advertising printed matter exclusively related thereto.

(3) Information and ''software'' that:

(i) Are published, as described in § 734.7;

(ii) Arise during, or result from, fundamental research, as described in § 734.8;

(iii) Are released by instruction in a catalog course or associated teaching laboratory of an academic institution;

(iv) Appear in patents or open (published) patent applications available from or at any patent office, unless covered by an invention secrecy order, or are otherwise patent information as described in § 734.10;

(v) Are non-proprietary system descriptions; or

(vi) Are telemetry data as defined in Note 2 to Category 9, Product Group E (see supplement no. 1 to part 774 of the EAR).

NOTE TO PARAGRAPHS (b)(2) AND (b)(3): A printed book or other printed material setting forth encryption source code is not itself subject to the EAR (see § 734.3(b)(2)). However, notwithstanding § 734.3(b)(2), encryption source code in electronic form or media (*e.g.*, computer diskette or CD ROM) remains subject to the EAR (see § 734.17)). Publicly available encryption object code ''software'' classified under ECCN 5D002 is not subject to the EAR when the corresponding source code meets the criteria specified in § 742.15(b) of the EAR.

NOTE TO PARAGRAPH (b)(3): Except as set forth in part 760 of this title, information that is not within the scope of the definition of ''technology'' (see § 772.1 of the EAR) is not subject to the EAR.

(c) ''Items subject to the EAR'' consist of the items listed on the Commerce Control List (CCL) in part 774 of the EAR and all other items which meet the definition of that term. For ease of reference and classification purposes, items subject to the EAR which are *not* listed on the CCL are designated as ''EAR99.'' Items subject to temporary CCL controls are classified under the ECCN 0Y521 series (i.e., 0A521, 0B521, 0C521, 0D521, and 0E521) pursuant to § 742.6(a)(7) of the EAR, while a determination is made as to whether classification under a revised or new ECCN, or an EAR99 designation, is appropriate.

(d) Commodity classification determinations and advisory opinions issued by BIS are not, and may not be relied upon as, determinations that the items in question are ''subject to the EAR,'' as described in § 748.3 of the EAR.

(e) Items subject to the EAR may be exported, reexported, or transferred in country under licenses, agreements, or other approvals from the Department of State's Directorate of Defense Trade Controls pursuant to §§ 120.5(b) and 126.6(c) of the International Traffic in Arms Regulations (ITAR) (22 CFR 120.5(b) and 126.6(c)). Exports, reexports, or in-country transfers not in accordance with the terms and conditions of a license, agreement, or other approval under § 120.5(b) of the ITAR requires separate authorization from BIS. Exports, reexports, or in-country transfers of items subject to the EAR under a Foreign Military Sales case that exceed the scope of § 126.6(c) of the ITAR or the scope of actions made by the Department of State's Office of Regional Security and Arms Transfers require separate authorization from BIS.

[61 FR 12746, Mar. 25, 1996, as amended at 61 FR 65464, Dec. 13, 1996; 61 FR 68578, Dec. 30, 1996; 62 FR 25456, May 9, 1997; 67 FR 38860, June 6, 2002; 69 FR 5690, Feb. 6, 2004; 69 FR 5929, Feb. 9, 2004; 73 FR 56968, Oct. 1, 2008; 73 FR 57503, Oct. 3, 2008; 75 FR 31680, June 4, 2010; 75 FR 45054, Aug. 2, 2010; 76 FR 1062, Jan. 7, 2011; 77 FR 22198, Apr. 13, 2012; 78 FR 22707, Apr. 16, 2013; 78 FR 61744, Oct. 3, 2013; 78 FR 61900, Oct. 4, 2013; 81 FR 35602, June 3, 2016; 81 FR 64668, Sept. 20, 2016]

§ 734.4 *De minimis* U.S. content.

(a) *Items for which there is no de minimis level.* (1) There is no *de minimis* level for the export from a foreign country of a foreign-made computer with an Adjusted Peak Performance (APP) exceeding that listed in ECCN 4A003.b and containing U.S.-origin controlled semiconductors (other than memory circuits) classified under ECCN 3A001 to Computer Tier 3 destinations; or exceeding an APP listed in ECCN 4A994.b and containing U.S.-origin controlled semiconductors (other than memory circuits) classified under ECCN 3A001 or high speed interconnect devices

(ECCN 4A994.j) to Cuba, Iran, North Korea, Sudan, and Syria.

(2) Foreign produced encryption technology that incorporates U.S. origin encryption technology controlled by ECCN 5E002 is subject to the EAR regardless of the amount of U.S. origin content.

(3) [Reserved]

(4) There is no *de minimis* level for U.S.-origin technology controlled by ECCN 9E003.a.1 through a.8,.h, .i., and .j., when redrawn, used, consulted, or otherwise commingled abroad.

(5) There is no *de minimis* level for foreign-made ''military commodities'' incorporating one or more of the commodities described in ECCN 0A919.a.1 when destined for a country listed in Country Group D:5 of supplement no. 1 to part 740 of the EAR.

(6) 9x515 and ''600 series.''

(i) There is no de minimis level for foreign-made items that incorporate U.S.-origin 9x515 or ''600 series'' items enumerated or otherwise described in paragraphs .a through .x of a 9x515 or ''600 series'' ECCN when destined for a country listed in Country Group D:5 of supplement no. 1 to part 740 of the EAR.

(ii) There is no *de minimis* level for foreign-made items that incorporate U.S.-origin 9x515 or ''600 series'' .y items when destined for a country listed in Country Group E:1 or E:2 of supplement no. 1 to part 740 of the EAR or for the People's Republic of China (PRC).

(7) Under certain rules issued by the Office of Foreign Assets Control, certain exports from abroad by U.S.-owned or controlled entities may be prohibited notwithstanding the *de minimis* provisions of the EAR. In addition, the *de minimis* rules do not relieve U.S. persons of the obligation to refrain from supporting the proliferation of weapons of mass-destruction and missiles as provided in § 744.6 of the EAR.

(b) *Special requirements for certain encryption items.* Non-U.S.-made items that incorporate U.S.-origin items that are listed in this paragraph are subject to the EAR unless they meet the *de minimis* level and destination requirements of paragraph (c) or (d) of this section and the requirements of this paragraph.

(1) The U.S.-origin commodities or software, if controlled under ECCN 5A002, ECCN 5B002, equivalent or related software therefor classified under ECCN 5D002, and ''cryptanalytic items'' classified under ECCN 5A004 or 5D002, must have been:

(i) Publicly available encryption source code classified under ECCN 5D002 that has met the notification requirement of § 742.15(b), see § 734.3(b)(3) of the EAR. Such source code does not have to be counted as controlled U.S.-origin content in a *de minimis* calculation;

(ii) Authorized for License Exception ENC by BIS after classification pursuant to § 740.17(b)(3) of the EAR;

(iii) Authorized for License Exception ENC by BIS after classification pursuant to § 740.17(b)(2) of the EAR, and the non-U.S.-made product will not be sent to any destination in Country Groups E:1 and E:2 in Supplement No. 1 to part 740 of the EAR; or

(iv) Authorized for License Exception ENC pursuant to § 740.17(b)(1) of the EAR.

(2) U.S.-origin encryption items classified under ECCNs 5A992.c, 5D992.c, or 5E992.b.

NOTE TO PARAGRAPH (b): See Supplement No. 2 to this part for de minimis calculation procedures and reporting requirements.

(c) *10% De Minimis Rule.* Except as provided in paragraphs (a) and (b)(1)(iii) of this section and subject to the provisions of paragraphs (b)(1)(i), (b)(1)(ii) and (b)(2) of this section, the following reexports are not subject to the EAR when made to any country in the world. See supplement no. 2 of this part for guidance on calculating values.

(1) Reexports of a foreign-made commodity incorporating controlled U.S.-origin commodities or ''bundled'' with U.S.-origin software valued at 10% or less of the total value of the foreign-made commodity;

NOTES TO PARAGRAPH (c)(1): (1) U.S.-origin software is not eligible for the *de minimis* exclusion and is subject to the EAR when exported or reexported separately from (i.e., not bundled or incorporated with) the foreign-made item.

(2) For the purposes of this section, 'bundled' means software that is reexported together with the item and is configured for

the item, but is not necessarily physically integrated into the item.

(3) The *de minimis* exclusion under paragraph (c)(1) only applies to software that is listed on the Commerce Control List (CCL) and has a reason for control of anti-terrorism (AT) only or software that is designated as EAR99 (subject to the EAR, but not listed on the CCL). For all other software, an independent assessment of whether the software by itself is subject to the EAR must be performed.

(2) Reexports of foreign-made software incorporating controlled U.S.-origin software valued at 10% or less of the total value of the foreign-made software; or

(3) Reexports of foreign technology commingled with or drawn from controlled U.S.-origin technology valued at 10% or less of the total value of the foreign technology. Before you may rely upon the *de minimis* exclusion for foreign-made technology commingled with controlled U.S.-origin technology, you must file a one-time report. See supplement no. 2 to part 734 for submission requirements.

(d) *25% De Minimis Rule*. Except as provided in paragraph (a) of this section and subject to the provisions of paragraph (b) of this section, the following reexports are not subject to the EAR when made to countries other than those listed in Country Group E:1 of supplement no. 1 to part 740 of the EAR. See supplement no. 2 to this part for guidance on calculating values.

(1) Reexports of a foreign-made commodity incorporating controlled U.S.-origin commodities or ''bundled'' with U.S.-origin software valued at 25% or less of the total value of the foreign-made commodity;

NOTES TO PARAGRAPH (d)(1): (1) U.S.-origin software is not eligible for the *de minimis* exclusion and is subject to the EAR when exported or reexported separately from (i.e., not bundled or incorporated with) the foreign-made item.

(2) For the purposes of this section, ''bundled'' means software that is reexported together with the item and is configured for the item, but is not necessarily physically integrated into the item.

(3) The *de minimis* exclusion under paragraph (d)(1) only applies to software that is listed on the Commerce Control List (CCL) and has a reason for control of anti-terrorism (AT) only or software that is classified as EAR99 (subject to the EAR, but not listed on the CCL). For all other software, an independent assessment of whether the software by itself is subject to the EAR must be performed.

(2) Reexports of foreign-made software incorporating controlled U.S.-origin software valued at 25% or less of the total value of the foreign-made software; or

(3) Reexports of foreign technology commingled with or drawn from controlled U.S.-origin technology valued at 25% or less of the total value of the foreign technology. Before you may rely upon the *de minimis* exclusion for foreign-made technology commingled with controlled U.S.-origin technology, you must file a one-time report. See supplement no. 2 to part 734 for submission requirements.

(e) You are responsible for making the necessary calculations to determine whether the *de minimis* provisions apply to your situation. See supplement no. 2 to part 734 for guidance regarding calculation of U.S. controlled content.

(f) See § 770.3 of the EAR for principles that apply to commingled U.S.-origin technology and software.

(g) *Recordkeeping requirement*. The method by which you determined the percentage of U.S. content in foreign software or technology must be documented and retained in your records in accordance with the recordkeeping requirements in part 762 of the EAR. Your records should indicate whether the values you used in your calculations are actual arms-length market prices or prices derived from comparable transactions or costs of production, overhead, and profit.

[61 FR 12746, Mar. 25, 1996]

EDITORIAL NOTE: For FEDERAL REGISTER citations affecting § 734.4, see the List of CFR Sections Affected, which appears in the Finding Aids section of the printed volume and at *www.fdsys.gov*.

§ 734.5 Activities of U.S. and foreign persons subject to the EAR.

The following kinds of activities are subject to the EAR:

(a) Certain activities of U.S. persons related to the proliferation of nuclear explosive devices, chemical or biological weapons, missile technology as described in § 744.6 of the EAR, and the

proliferation of chemical weapons as described in part 745 of the EAR.

(b) Activities of U.S. or foreign persons prohibited by any order issued under the EAR, including a Denial Order issued pursuant to part 766 of the EAR.

[61 FR 12746, Mar. 25, 1996, as amended at 61 FR 68578, Dec. 30, 1996; 64 FR 27141, May 18, 1999; 64 FR 47105, Aug. 30, 1999; 74 FR 52883, Oct. 15, 2009]

§ 734.6 Assistance available from BIS for determining licensing and other requirements.

(a) If you are not sure whether a commodity, software, technology, or activity ''subject to the EAR'' is subject to licensing or other requirements under the EAR, you may ask BIS for an advisory opinion or a commodity classification determination. In order to determine whether an item is ''subject to the ITAR,'' you should review the ITAR's United States Munitions List (see 22 CFR 120.3, 120.6 and 121.1). You may also submit a request to the Department of State, Directorate of Defense Trade Controls, for a formal jurisdictional determination regarding the commodity, software, technology, or activity at issue; or in ITAR terms, the defense article, technical data or defense service at issue (see 22 CFR 120.4).

(b) As the agency responsible for administering the EAR, BIS is the only agency that has the responsibility for determining whether an item or activity is subject to the EAR and, if so, what licensing or other requirements apply under the EAR. Such a determination only affects EAR requirements, and does not affect the applicability of any other regulatory programs.

(c) If you need help in determining BIS licensing or other requirements you may ask BIS for help by following the procedures described in § 748.3 of the EAR.

[61 FR 12746, Mar. 25, 1996, as amended at 78 FR 61900, Oct. 4, 2013]

§ 734.7 Published.

(a) Except as set forth in paragraph (b) of this section, unclassified ''technology'' or ''software'' is ''published,'' and is thus not ''technology'' or ''software'' subject to the EAR, when it has been made available to the public without restrictions upon its further dissemination such as through any of the following:

(1) Subscriptions available without restriction to any individual who desires to obtain or purchase the published information;

(2) Libraries or other public collections that are open and available to the public, and from which the public can obtain tangible or intangible documents;

(3) Unlimited distribution at a conference, meeting, seminar, trade show, or exhibition, generally accessible to the interested public;

(4) Public dissemination (*i.e.*, unlimited distribution) in any form (*e.g.*, not necessarily in published form), including posting on the Internet on sites available to the public; or

(5) Submission of a written composition, manuscript, presentation, computer-readable dataset, formula, imagery, algorithms, or some other representation of knowledge with the intention that such information will be made publicly available if accepted for publication or presentation:

(i) To domestic or foreign co-authors, editors, or reviewers of journals, magazines, newspapers or trade publications;

(ii) To researchers conducting fundamental research; or

(iii) To organizers of open conferences or other open gatherings.

(b) Published encryption software classified under ECCN 5D002 remains subject to the EAR unless it is publicly available encryption object code software classified under ECCN 5D002 and the corresponding source code meets the criteria specified in § 742.15(b) of the EAR.

[81 FR 35602, June 3, 2016, as amended at 81 FR 64668, Sept. 20, 2016]

§ 734.8 "Technology" or "software" that arises during, or results from, fundamental research.

(a) *Fundamental research.* ''Technology'' or ''software'' that arises during, or results from, fundamental research and is intended to be published is not subject to the EAR.

NOTE 1 TO PARAGRAPH (a): This paragraph does not apply to ''technology'' or ''software'' subject to the EAR that is released to conduct fundamental research. (See §734.7(a)(5)(ii) for information released to researchers that is ''published.'')

NOTE 2 TO PARAGRAPH (a): There are instances in the conduct of research where a researcher, institution or company may decide to restrict or protect the release or publication of ''technology'' or ''software'' contained in research results. Once a decision is made to maintain such ''technology'' or ''software'' as restricted or proprietary, the ''technology'' or ''software,'' if within the scope of §734.3(a), becomes subject to the EAR.

(b) *Prepublication review.* ''Technology'' or ''software'' that arises during, or results, from fundamental research is intended to be published to the extent that the researchers are free to publish the ''technology'' or ''software'' contained in the research without restriction. ''Technology'' or ''software'' that arises during or results from fundamental research subject to prepublication review is still intended to be published when:

(1) Prepublication review is conducted solely to ensure that publication would not compromise patent rights, so long as the review causes no more than a temporary delay in publication of the research results;

(2) Prepublication review is conducted by a sponsor of research solely to insure that the publication would not inadvertently divulge proprietary information that the sponsor has furnished to the researchers; or

(3) With respect to research conducted by scientists or engineers working for a Federal agency or a Federally Funded Research and Development Center (FFRDC), the review is conducted within any appropriate system devised by the agency or the FFRDC to control the release of information by such scientists and engineers.

NOTE 1 TO PARAGRAPH (b): Although ''technology'' or ''software'' arising during or resulting from fundamental research is not considered intended to be published if researchers accept restrictions on its publication, such ''technology'' or ''software'' will nonetheless qualify as ''technology'' or ''software'' arising during or resulting from fundamental research once all such restrictions have expired or have been removed.

NOTE 2 TO PARAGRAPH (b): Research that is voluntarily subjected to U.S. government prepublication review is considered ''intended to be published'' when the research is released consistent with the prepublication review and any resulting controls.

NOTE 3 TO PARAGRAPH (b): ''Technology'' or ''software'' resulting from U.S. government funded research that is subject to government-imposed access and dissemination or other specific national security controls qualifies as ''technology'' or ''software'' resulting from fundamental research, provided that all government-imposed national security controls have been satisfied and the researchers are free to publish the ''technology'' or ''software'' contained in the research without restriction. Examples of specific national security controls include requirements for prepublication review by the Government, with right to withhold permission for publication; restrictions on prepublication dissemination of information to non-U.S. citizens or other categories of persons; or restrictions on participation of non-U.S. citizens or other categories of persons in the research. A general reference to one or more export control laws or regulations or a general reminder that the Government retains the right to classify is not a specific national security control.

(c) *Fundamental research definition. Fundamental research* means research in science, engineering, or mathematics, the results of which ordinarily are published and shared broadly within the research community, and for which the researchers have not accepted restrictions for proprietary or national security reasons.

[81 FR 35603, June 3, 2016]

§ 734.9 [Reserved]

§ 734.10 Patents.

''Technology'' is not subject to the EAR if it is contained in any of the following:

(a) A patent or an open (published) patent application available from or at any patent office;

(b) A published patent or patent application prepared wholly from foreign-origin ''technology'' where the application is being sent to the foreign inventor to be executed and returned to the United States for subsequent filing in the U.S. Patent and Trademark Office;

(c) A patent application, or an amendment, modification, supplement or division of an application, and authorized for filing in a foreign country

in accordance with the regulations of the Patent and Trademark Office, 37 CFR part 5; or

(d) A patent application when sent to a foreign country before or within six months after the filing of a United States patent application for the purpose of obtaining the signature of an inventor who was in the United States when the invention was made or who is a co-inventor with a person residing in the United States.

[81 FR 35603, June 3, 2016]

§ 734.11 [Reserved]

§ 734.12 Effect on foreign laws and regulations.

Any person who complies with any of the license or other requirements of the EAR is not relieved of the responsibility of complying with applicable foreign laws and regulations. Conversely, any person who complies with the license or other requirements of a foreign law or regulation is not relieved of the responsibility of complying with U.S. laws and regulations, including the EAR.

§ 734.13 Export.

(a) Except as set forth in § 734.17 or § 734.18, *Export* means:

(1) An actual shipment or transmission out of the United States, including the sending or taking of an item out of the United States, in any manner;

(2) Releasing or otherwise transferring ''technology'' or source code (but not object code) to a foreign person in the United States (a ''deemed export'');

(3) Transferring by a person in the United States of registration, control, or ownership of:

(i) A spacecraft subject to the EAR that is not eligible for export under License Exception STA (*i.e.*, spacecraft that provide space-based logistics, assembly or servicing of any spacecraft) to a person in or a national of any other country; or

(ii) Any other spacecraft subject to the EAR to a person in or a national of a Country Group D:5 country.

(b) Any release in the United States of ''technology'' or source code to a foreign person is a deemed export to the foreign person's most recent country of citizenship or permanent residency.

(c) The export of an item that will transit through a country or countries to a destination identified in the EAR is deemed to be an export to that destination.

[81 FR 35603, June 3, 2016]

§ 734.14 Reexport.

(a) Except as set forth in §§ 734.18 and 734.20, *Reexport* means:

(1) An actual shipment or transmission of an item subject to the EAR from one foreign country to another foreign country, including the sending or taking of an item to or from such countries in any manner;

(2) Releasing or otherwise transferring ''technology'' or source code subject to the EAR to a foreign person of a country other than the foreign country where the release or transfer takes place (a deemed reexport);

(3) Transferring by a person outside the United States of registration, control, or ownership of:

(i) A spacecraft subject to the EAR that is not eligible for reexport under License Exception STA (*i.e.*, spacecraft that provide space-based logistics, assembly or servicing of any spacecraft) to a person in or a national of any other country; or

(ii) Any other spacecraft subject to the EAR to a person in or a national of a Country Group D:5 country.

(b) Any release outside of the United States of ''technology'' or source code subject to the EAR to a foreign person of another country is a deemed reexport to the foreign person's most recent country of citizenship or permanent residency, except as described in § 734.20.

(c) The reexport of an item subject to the EAR that will transit through a country or countries to a destination identified in the EAR is deemed to be a reexport to that destination.

[81 FR 35604, June 3, 2016]

§ 734.15 Release.

(a) Except as set forth in § 734.18, ''technology'' and ''software'' are ''released'' through:

(1) Visual or other inspection by a foreign person of items that reveals

''technology'' or source code subject to the EAR to a foreign person; or

(2) Oral or written exchanges with a foreign person of ''technology'' or source code in the United States or abroad.

(b) Any act causing the ''release'' of ''technology'' or ''software,'' through use of ''access information'' or otherwise, to yourself or another person requires an authorization to the same extent an authorization would be required to export or reexport such ''technology'' or ''software'' to that person.

[81 FR 35604, June 3, 2016]

§ 734.16 Transfer (in-country).

Except as set forth in § 734.18(a)(3), a *Transfer (in-country)* is a change in end use or end user of an item within the same foreign country. *Transfer (in-country)* is synonymous with *In-country transfer*.

[81 FR 35604, June 3, 2016]

§ 734.17 Export of encryption source code and object code software.

(a) For purposes of the EAR, the *Export of encryption source code and object code ''software''* means:

(1) An actual shipment, transfer, or transmission out of the United States (*see* also paragraph (b) of this section); or

(2) A transfer of such ''software'' in the United States to an embassy or affiliate of a foreign country.

(b) The *export of encryption source code and object code ''software''* controlled for ''EI'' reasons under ECCN 5D002 on the Commerce Control List (see supplement no. 1 to part 774 of the EAR) includes:

(1) Downloading, or causing the downloading of, such ''software'' to locations (including electronic bulletin boards, Internet file transfer protocol, and World Wide Web sites) outside the U.S., or

(2) Making such ''software'' available for transfer outside the United States, over wire, cable, radio, electromagnetic, photo optical, photoelectric or other comparable communications facilities accessible to persons outside the United States, including transfers from electronic bulletin boards, Internet file transfer protocol and World Wide Web sites, unless the person making the ''software'' available takes precautions adequate to prevent unauthorized transfer of such code. See § 742.15(b) of the EAR for notification requirements for export or reexports of encryption source code ''software'' considered to be publicly available or published consistent with the provisions of § 734.3(b)(3). Publicly available encryption source code ''software'' and corresponding object code are not subject to the EAR, when the encryption source code ''software'' meets the notification requirements in § 742.15(b) of the EAR.

(c) Subject to the General Prohibitions described in part 736 of the EAR, such precautions for Internet transfers of products eligible for export under § 740.17(b)(2) of the EAR (encryption ''software'' products, certain encryption source code and general purpose encryption toolkits) shall include such measures as:

(1) The access control system, either through automated means or human intervention, checks the address of every system outside of the U.S. or Canada requesting or receiving a transfer and verifies such systems do not have a domain name or Internet address of a foreign government end-user (*e.g.*, ''.gov,'' ''.gouv,'' ''.mil'' or similar addresses);

(2) The access control system provides every requesting or receiving party with notice that the transfer includes or would include cryptographic ''software'' subject to export controls under the Export Administration Regulations, and anyone receiving such a transfer cannot export the ''software'' without a license or other authorization; and

(3) Every party requesting or receiving a transfer of such ''software'' must acknowledge affirmatively that the ''software'' is not intended for use by a government end user, as defined in part 772 of the EAR, and he or she understands the cryptographic ''software'' is subject to export controls under the Export Administration Regulations and anyone receiving the transfer cannot export the ''software'' without a license or other authorization. BIS will

consider acknowledgments in electronic form provided they are adequate to assure legal undertakings similar to written acknowledgments.

[81 FR 35604, June 3, 2016, as amended at 81 FR 64668, Sept. 20, 2016]

§ 734.18 Activities that are not exports, reexports, or transfers.

(a) *Activities that are not exports, reexports, or transfers.* The following activities are not exports, reexports, or transfers:

(1) Launching a spacecraft, launch vehicle, payload, or other item into space.

(2) Transmitting or otherwise transferring ''technology'' or ''software'' to a person in the United States who is not a foreign person from another person in the United States.

(3) Transmitting or otherwise making a transfer (in-country) within the same foreign country of ''technology'' or ''software'' between or among only persons who are not ''foreign persons,'' so long as the transmission or transfer does not result in a release to a foreign person or to a person prohibited from receiving the ''technology'' or ''software.''

(4) Shipping, moving, or transferring items between or among the United States, the District of Columbia, the Commonwealth of Puerto Rico, or the Commonwealth of the Northern Mariana Islands or any territory, dependency, or possession of the United States as listed in Schedule C, Classification Codes and Descriptions for U.S. Export Statistics, issued by the Bureau of the Census.

(5) Sending, taking, or storing ''technology'' or ''software'' that is:

(i) Unclassified;

(ii) Secured using 'end-to-end encryption;'

(iii) Secured using cryptographic modules (hardware or ''software'') compliant with Federal Information Processing Standards Publication 140–2 (FIPS 140–2) or its successors, supplemented by ''software'' implementation, cryptographic key management and other procedures and controls that are in accordance with guidance provided in current U.S. National Institute for Standards and Technology publications, or other equally or more effective cryptographic means; and

(iv) Not intentionally stored in a country listed in Country Group D:5 (*see* supplement no. 1 to part 740 of the EAR) or in the Russian Federation.

NOTE TO PARAGRAPH (a)(4)(iv): Data in-transit via the Internet is not deemed to be stored.

(b) *Definitions.* For purposes of this section, *End-to-end encryption* means (i) the provision of cryptographic protection of data such that the data is not in unencrypted form between an originator (or the originator's in-country security boundary) and an intended recipient (or the recipient's in-country security boundary), and (ii) the means of decryption are not provided to any third party. The originator and the recipient may be the same person.

(c) *Ability to access ''technology'' or ''software'' in encrypted form.* The ability to access ''technology'' or ''software'' in encrypted form that satisfies the criteria set forth in paragraph (a)(5) of this section does not constitute the release or export of such ''technology'' or ''software.''

[81 FR 35604, June 3, 2016]

§ 734.19 Transfer of access information.

To the extent an authorization would be required to transfer ''technology'' or ''software,'' a comparable authorization is required to transfer access information if done with ''knowledge'' that such transfer would result in the release of such ''technology'' or ''software'' without a required authorization.

[81 FR 35605, June 3, 2016]

§ 734.20 Activities that are not deemed reexports.

The following activities are not deemed reexports (see ''deemed reexport'' definition in § 734.14(b)):

(a) *Authorized Release of ''technology'' or source code.* Release of ''technology'' or source code by an entity outside the United States to a foreign person of a country other than the foreign country where the release takes place if:

(1) The entity is authorized to receive the ''technology'' or source code at

issue, whether by a license, license exception, or situation where no license is required under the EAR for such ''technology'' or source code; and

(2) The entity has ''knowledge'' that the foreign national's most recent country of citizenship or permanent residency is that of a country to which export from the United States of the ''technology'' or source code at issue would be authorized by the EAR either under a license exception or in situations where no license under the EAR would be required.

(b) *Release to Country Group A:5 nationals.* Without limiting the scope of paragraph (a), release of ''technology'' or source code by an entity outside the United States to a foreign person of a country other than the foreign country where the release takes place if:

(1) The entity is authorized to receive the ''technology'' or source code at issue, whether by a license, license exception, or through situations where no license is required under the EAR;

(2) The foreign person is a *bona fide* 'permanent and regular employee' of the entity and is not a proscribed person (see § 772.1 for definition of proscribed person);

(3) Such employee is a national exclusively of a country in Country Group A:5; and

(4) The release of ''technology'' or source code takes place entirely within the physical territory of any such country, or within the United States.

(c) *Release to other than Country Group A:5 nationals.* Without limiting the scope of paragraph (a), release of ''technology'' or source code by an entity outside the United States to a foreign person of a country other than the foreign country where the release takes place if:

(1) The entity is authorized to receive the ''technology'' or source code at issue, whether by a license, license exception, or situations where no license is required under the EAR;

(2) The foreign person is a *bona fide* 'permanent and regular employee' of the entity and is not a proscribed person (see § 772.1 for definition of proscribed person);

(3) The release takes place entirely within the physical territory of the country where the entity is located, conducts official business, or operates, or within the United States;

(4) The entity has effective procedures to prevent diversion to destinations, entities, end users, and end uses contrary to the EAR; and

(5) Any one of the following six (*i.e.*, paragraphs (c)(5)(i), (ii), (iii), (iv), (v), or (vi) of this section) situations is applicable:

(i) The foreign person has a security clearance approved by the host nation government of the entity outside the United States;

(ii) The entity outside the United States:

(A) Has in place a process to screen the foreign person employee and to have the employee execute a non-disclosure agreement that provides assurances that the employee will not disclose, transfer, or reexport controlled ''technology'' contrary to the EAR;

(B) Screens the employee for substantive contacts with countries listed in Country Group D:5 (see supplement no. 1 to part 740 of the EAR). Although nationality does not, in and of itself, prohibit access to ''technology'' or source code subject to the EAR, an employee who has substantive contacts with foreign persons from countries listed in Country Group D:5 shall be presumed to raise a risk of diversion, unless BIS determines otherwise;

(C) Maintains a technology security or clearance plan that includes procedures for screening employees for such substantive contacts;

(D) Maintains records of such screenings for the longer of five years or the duration of the individual's employment with the entity; and

(E) Will make such plans and records available to BIS or its agents for civil and criminal law enforcement purposes upon request;

(iii) The entity is a U.K. entity implementing § 126.18 of the ITAR (22 CFR 126.18) pursuant to the U.S.-U.K. Exchange of Notes regarding § 126.18 of the ITAR for which the U.K. has provided appropriate implementation guidance;

(iv) The entity is a Canadian entity implementing § 126.18 of the ITAR pursuant to the U.S.-Canadian Exchange of Letters regarding § 126.18 of the ITAR for which Canada has provided appropriate implementation guidance;

(v) The entity is an Australian entity implementing the exemption at paragraph 3.7b of the ITAR Agreements Guidelines; or

(vi) The entity is a Dutch entity implementing the exemption at paragraph 3.7c of the ITAR Agreements Guidelines.

(d) *Definitions*. (1) *Substantive contacts* include regular travel to countries in Country Group D:5; recent or continuing contact with agents, brokers, and nationals of such countries; continued demonstrated allegiance to such countries; maintenance of business relationships with persons from such countries; maintenance of a residence in such countries; receiving salary or other continuing monetary compensation from such countries; or acts otherwise indicating a risk of diversion.

(2) *Permanent and regular employee* is an individual who:

(i) Is permanently (*i.e.*, for not less than a year) employed by an entity, or

(ii) Is a contract employee who:

(A) Is in a long-term contractual relationship with the company where the individual works at the entity's facilities or at locations assigned by the entity (such as a remote site or on travel);

(B) Works under the entity's direction and control such that the company must determine the individual's work schedule and duties;

(C) Works full time and exclusively for the entity; and

(D) Executes a nondisclosure certification for the company that he or she will not disclose confidential information received as part of his or her work for the entity.

NOTE TO PARAGRAPH (d)(2): If the contract employee has been seconded to the entity by a staffing agency, then the staffing agency must not have any role in the work the individual performs other than to provide the individual for that work. The staffing agency also must not have access to any controlled ''technology'' or source code other than that authorized by the applicable regulations or a license.

[81 FR 35605, June 3, 2016]

SUPPLEMENT NO. 1 TO PART 734 [RESERVED]

SUPPLEMENT NO. 2 TO PART 734—GUIDELINES FOR *De Minimis* RULES

(a) Calculation of the value of controlled U.S.-origin content in foreign-made items is to be performed for the purposes of §734.4 of this part, to determine whether the percentage of U.S.-origin content is *de minimis*. (Note that you do not need to make these calculations if the foreign made item does not require a license to the destination in question.) Use the following guidelines to perform such calculations:

(1) *U.S.-origin controlled content*. To identify U.S.-origin controlled content for purposes of the *de minimis* rules, you must determine the Export Control Classification Number (ECCN) of each U.S.-origin item incorporated into a foreign-made product. Then, you must identify which, if any, of those U.S.-origin items would require a license from BIS if they were to be exported or reexported (in the form in which you received them) to the foreign-made product's country of destination. For purposes of identifying U.S.-origin controlled content, you should consult the Commerce Country Chart in supplement no. 1 to part 738 of the EAR and controls described in part 746 of the EAR. Part 744 of the EAR should not be used to identify controlled U.S. content for purposes of determining the applicability of the *de minimis* rules. In identifying U.S.-origin controlled content, do not take account of commodities, software, or technology that could be exported or reexported to the country of destination without a license (designated as ''NLR'') or under License Exception GBS (see part 740 of the EAR). Commodities subject only to short supply controls are not included in calculating U.S. content.

NOTE TO PARAGRAPH (a)(1): U.S.-origin controlled content is considered 'incorporated' for *de minimis* purposes if the U.S.-origin controlled item is: Essential to the functioning of the foreign equipment; customarily included in sales of the foreign equipment; and reexported with the foreign produced item. U.S.-origin software may be 'bundled' with foreign produced commodities; see §734.4 of this part. For purposes of determining *de minimis* levels, technology and source code used to design or produce foreign-made commodities or software are not considered to be incorporated into such foreign-made commodities or software.

(2) *Value of U.S.-origin controlled content*. The value of the U.S.-origin controlled content shall reflect the fair market price of such content in the market where the foreign product is being produced. In most cases, this value will be the same as the actual cost to the foreign manufacturer of the

U.S.-origin commodity, technology, or software. When the foreign manufacturer and the U.S. supplier are affiliated and have special arrangements that result in below-market pricing, the value of the U.S.-origin controlled content should reflect fair market prices that would normally be charged to unaffiliated customers in the same foreign market. If fair market value cannot be determined based upon actual arms-length transaction data for the U.S.-origin controlled content in question, then you must determine another reliable valuation method to calculate or derive the fair market value. Such methods may include the use of comparable market prices or costs of production and distribution. The EAR do not require calculations based upon any one accounting system or U.S. accounting standards. However, the method you use must be consistent with your business practice.

(3) *Foreign-made product value*—(i) *General.* The value of the foreign-made product shall reflect the fair market price of such product in the market where the foreign product is sold. In most cases, this value will be the same as the actual cost to a buyer of the foreign-made product. When the foreign manufacturer and the buyer of their product are affiliated and have special arrangements that result in below-market pricing, the value of the foreign-made product should reflect fair market prices that would normally be charged to unaffiliated customers in the same foreign market. If fair market value cannot be determined based upon actual arms-length transaction data for the foreign-made product in question, then you must determine another reliable valuation method to calculate or derive the fair market value. Such methods may include the use of comparable market prices or costs of production and distribution. The EAR do not require calculations based upon any one accounting system or U.S. accounting standards. However, the method you use must be consistent with your business practice.

(ii) *Foreign-Made Software.* In calculating the value of foreign-made software for purposes of the *de minimis* rules, you may make an estimate of future sales of that foreign software. The total value of foreign-made software will be the sum of: The value of actual sales of that software based on orders received at the time the foreign software incorporates U.S.-origin content and, if applicable; and an estimate of all future sales of that software.

NOTE TO PARAGRAPH (a)(3): Regardless of the accounting systems, standard, or conventions you use in the operation of your business, you may not depreciate reported fair market values or otherwise reduce fair market values through related accounting conventions. Values may be historic or projected. However, you may rely on projected values only to the extent that they remain consistent with your documentation.

(4) *Calculating percentage value of U.S.-origin items.* To determine the percentage value of U.S-origin controlled content incorporated in, commingled with, or ''bundled'' with the foreign produced item, divide the total value of the U.S.-origin controlled content by the foreign-made item value, then multiply the resulting number times 100. If the percentage value of incorporated U.S.-origin items is equal to or less than the *de minimis* level described in §734.4 of the EAR, then the foreign-made item is not subject to the EAR.

(b) *One-time report.* As stated in paragraphs (c) and (d) of §734.4, a one-time report is required before reliance on the *de minimis* rules for technology. The purpose of the report is solely to permit the U.S. Government to evaluate whether U.S. content calculations were performed correctly.

(1) *Contents of report.* You must include in your report a description of the scope and nature of the foreign technology that is the subject of the report and a description of its fair market value, along with the rationale and basis for the valuation of such foreign technology. Your report must indicate the country of destination for the foreign technology reexports when the U.S.-origin controlled content exceeds 10%, so that BIS can evaluate whether the U.S.-origin controlled content was correctly identified based on paragraph (a)(1) of this Supplement. The report does not require information regarding the end-use or end-users of the reexported foreign technology. You must include in your report the name, title, address, telephone number, E-mail address, and facsimile number of the person BIS may contact concerning your report.

(2) *Submission of report.* You must submit your report to BIS using one of the following methods:

(i) E-mail: *rpd2@bis.doc.gov*;

(ii) Fax: (202) 482–3355; or

(iii) Mail or Hand Delivery/Courier: U.S. Department of Commerce, Bureau of Industry and Security, Regulatory Policy Division, 14th and Pennsylvania Avenue NW., Room 2099B, Washington, DC 20230.

(3) *Report and wait.* If you have not been contacted by BIS concerning your report within thirty days after filing the report with BIS, you may rely upon the calculations described in the report unless and until BIS contacts you and instructs you otherwise. BIS may contact you with questions concerning your report or to indicate that BIS does not accept the assumptions or rationale for your calculations. If you receive such a contact or communication from BIS within thirty days after filing the report with BIS, you may not rely upon the calculations described in the report, and may not

use the *de minimis* rules for technology that are described in § 734.4 of this part, until BIS has indicated that such calculations were performed correctly.

[73 FR 56969, Oct. 1, 2008, as amended at 78 FR 13468, Feb. 28, 2013]

PART 736—GENERAL PROHIBITIONS

Sec.
736.1 Introduction.
736.2 General prohibitions and determination of applicability.
SUPPLEMENT NO. 1 TO PART 736—GENERAL ORDERS
SUPPLEMENT NO. 2 TO PART 736—ADMINISTRATIVE ORDERS

AUTHORITY: 50 U.S.C. 4601 *et seq.;* 50 U.S.C. 1701 *et seq.;* 22 U.S.C. 2151 note; E.O. 12938, 59 FR 59099, 3 CFR, 1994 Comp., p. 950; E.O. 13020, 61 FR 54079, 3 CFR, 1996 Comp., p. 219; E.O. 13026, 61 FR 58767, 3 CFR, 1996 Comp., p. 228; E.O. 13222, 66 FR 44025, 3 CFR, 2001 Comp., p. 783; E.O. 13338, 69 FR 26751, 3 CFR, 2004 Comp., p. 168; Notice of November 12, 2015, 80 FR 70667 (November 13, 2015); Notice of May 3, 2016, 81 FR 27293 (May 5, 2016); Notice of August 4, 2016, 81 FR 52587 (August 8, 2016).

SOURCE: 61 FR 12754, Mar. 25, 1996, unless otherwise noted.

§ 736.1 Introduction.

In this part, references to the EAR are references to 15 CFR chapter VII, subchapter C. A person may undertake transactions subject to the EAR without a license or other authorization, unless the regulations affirmatively state such a requirement. As such, if an export, reexport, or activity is subject to the EAR, the general prohibitions contained in this part and the License Exceptions specified in part 740 of the EAR must be reviewed to determine if a license is necessary. In the case of all exports from the United States, you must document your export as described in part 762 of the EAR regarding recordkeeping and clear your export through the U.S. Customs Service as described in part 758 of the EAR regarding export clearance requirements. Also note that for short supply controls all prohibitions and License Exceptions are in part 754 of the EAR.

(a) In this part we tell you:

(1) The facts that make your proposed export, reexport, or conduct subject to these general prohibitions, and

(2) The ten general prohibitions.

(b) Your obligations under the ten general prohibitions and under the EAR depend in large part upon the five types of information described in § 736.2(a) of this part and upon the general prohibitions described in § 736.2(b) of this part. The ten general prohibitions contain cross-references to other parts of the EAR that further define the breadth of the general prohibitions. For that reason, this part is not freestanding. In part 732, we provide certain steps you may follow in proper order to help you understand the general prohibitions and their relationship to other parts of the EAR.

(c) If you violate any of these ten general prohibitions, or engage in other conduct contrary to the Export Administration Act, the EAR, or any order, license, License Exception, or authorization issued thereunder, as described in part 764 of the EAR regarding enforcement, you will be subject to the sanctions described in that part.

§ 736.2 General prohibitions and determination of applicability.

(a) *Information or facts that determine the applicability of the general prohibitions.* The following five types of facts determine your obligations under the ten general prohibitions and the EAR generally:

(1) *Classification of the item.* The classification of the item on the Commerce Control List (see part 774 of the EAR);

(2) *Destination.* The country of ultimate destination for an export or reexport (see parts 738 and 774 of the EAR concerning the Country Chart and the Commerce Control List);

(3) *End-user.* The ultimate end user (see General Prohibition Four (paragraph (b)(4) of this section) and supplement no. 1 to part 764 of the EAR for references to persons with whom your transaction may not be permitted; see General Prohibition Five (Paragraph (b)(5) of this section) and part 744 for references to end-users for whom you may need an export or reexport license).

(4) *End-use.* The ultimate end-use (see General Prohibition Five (paragraph (b)(5) of this section) and part 744 of the EAR for general end-use restrictions); and

(5) *Conduct*. Conduct such as contracting, financing, and freight forwarding in support of a proliferation project as described in part 744 of the EAR.

(b) *General prohibitions*. The following ten general prohibitions describe certain exports, reexports, and other conduct, subject to the scope of the EAR, in which you may not engage unless you either have a license from the Bureau of Industry and Security (BIS) or qualify under part 740 of the EAR for a License Exception from each applicable general prohibition in this paragraph. The License Exceptions at part 740 of the EAR apply only to General Prohibitions One (Exports and Reexports in the Form Received), Two (Parts and Components Reexports), and Three (Foreign-Produced Direct Product Reexports); however, selected License Exceptions are specifically referenced and authorized in part 746 of the EAR concerning embargo destinations and in § 744.2(c) of the EAR regarding nuclear end-uses.

(1) *General Prohibition One—Export and reexport of controlled items to listed countries (Exports and Reexports)*. You may not, without a license or License Exception, export any item subject to the EAR to another country or reexport any item of U.S.-origin if each of the following is true:

(i) The item is controlled for a reason indicated in the applicable Export Control Classification Number (ECCN), and

(ii) Export to the country of destination requires a license for the control reason as indicated on the Country Chart at part 738 of the EAR. (The scope of this prohibition is determined by the correct classification of your item and the ultimate destination as that combination is reflected on the Country Chart.)[1] Note that each License Exception described at part 740 of the EAR supersedes General Prohibition One if all terms and conditions of a given License Exception are met by the exporter or reexporter.

(2) *General Prohibition Two—Reexport and export from abroad of foreign-made items incorporating more than a de minimis amount of controlled U.S. content (U.S. Content Reexports)*. (i) You may not, without a license or license exception, reexport or export from abroad foreign-made commodities that incorporate controlled U.S.-origin commodities, foreign-made commodities that are ''bundled'' with controlled U.S.-origin software, foreign-made software that is commingled with controlled U.S.-origin software, or foreign-made technology that is commingled with controlled U.S.-origin technology if such items require a license according to any of the provisions in the EAR and incorporate or are commingled with more than a *de minimis* amount of controlled U.S. content, as defined in § 734.4 of the EAR concerning the scope of the EAR.

(A) It incorporates more than the *de minimis* amount of controlled U.S. content, as defined in § 734.4 of the EAR concerning the scope of the EAR;

(B) It is controlled for a reason indicated in the applicable ECCN; and

(C) Its export to the country of destination requires a license for that control reason as indicated on the Country Chart. (The scope of this prohibition is determined by the correct classification of your foreign-made item and the ultimate destination, as that combination is reflected on the Country Chart.)

(ii) Each License Exception described in part 740 of the EAR supersedes General Prohibition Two if all terms and conditions of a given License Exception are met by the exporter or reexporter.

(3) *General Prohibition Three—Reexport and export from abroad of the foreign-produced direct product of U.S. technology and software (Foreign-Produced Direct Product Reexports)*—(i) *Country scope of prohibition*. You may not, without a license or license exception, reexport any item subject to the scope of this General Prohibition Three to a destination in Country Group D:1, E:1, or E:2 (See supplement no.1 to part 740 of the EAR). Additionally, you may not, without a license or license exception, reexport or export from abroad any ECCN 0A919 commodities subject to the scope of this General Prohibition Three to a destination in Country Group D:1, D:3, D:4, D:5, E:1, or E:2.

[1] See part 738 of the EAR for selected controls that are not specified on the Country Chart.

(ii) *Product scope of foreign-made items subject to prohibition.* This General Prohibition 3 applies if an item meets either the Conditions defining the direct product of technology or the Conditions defining the direct product of a plant in paragraph (b)(3)(ii)(A) of this section:

(A) *Conditions defining direct product of technology.* Foreign-made items are subject to this General Prohibition 3 if they meet both of the following conditions:

(*1*) They are the direct product of technology or software that requires a written assurance as a supporting document for a license, as defined in paragraph (o)(3)(i) of supplement no. 2 to part 748 of the EAR, or as a precondition for the use of License Exception TSR at § 740.6 of the EAR, and

(*2*) They are subject to national security controls as designated on the applicable ECCN of the Commerce Control List at part 774 of the EAR.

(B) *Conditions defining direct product of a plant.* Foreign-made items are also subject to this General Prohibition 3 if they are the direct product of a complete plant or any major component of a plant if both of the following conditions are met:

(*1*) Such plant or component is the direct product of technology that requires a written assurance as a supporting document for a license or as a precondition for the use of License Exception TSR in § 740.6 of the EAR, and

(*2*) Such foreign-made direct products of the plant or component are subject to national security controls as designated on the applicable ECCN of the Commerce Control List at part 774 of the EAR.

(iii) *Country scope of prohibition for 9x515 or ''600 series'' items.* You may not, except as provided in paragraphs (b)(3)(v) or (vi) of this section, reexport or export from abroad without a license any ''600 series'' item subject to the scope of this General Prohibition Three to a destination in Country Groups D:1, D:3, D:4, D:5, E:1, or E:2 (see supplement no. 1 to part 740 of the EAR). You may not, except as provided in paragraphs (b)(3)(v) or (vi) of this section, reexport or export from abroad without a license any 9x515 item subject to the scope of this General Prohibition Three to a destination in Country Groups D:5, E:1, or E:2 (see supplement no. 1 to part 740 of the EAR).

(iv) *Product scope of 9x515 and ''600 series'' items subject to this prohibition.* This General Prohibition Three applies if a 9x515 or ''600 series'' item meets either of the following conditions:

(A) *Conditions defining direct product of ''technology'' or ''software'' for 9x515 and ''600 series'' items.* Foreign-made 9x515 and ''600 series'' items are subject to this General Prohibition Three if the foreign-made items meet both of the following conditions:

(*1*) They are the direct product of ''technology'' or ''software'' that is in the 9x515 or ''600 series'' as designated on the applicable ECCN of the Commerce Control List in supplement no. 1 to part 774 of the EAR; and

(*2*) They are in the 9x515 or ''600 series'' as designated on the applicable ECCN of the Commerce Control List in part 774 of the EAR.

(B) *Conditions defining direct product of a plant for 9x515 and ''600 series'' items.* Foreign-made 9x515 and ''600 series'' items are also subject to this General Prohibition Three if they are the direct product of a complete plant or any major component of a plant if both of the following conditions are met:

(*1*) Such plant or major component is the direct product of 9x515 or ''600 series'' ''technology'' as designated on the applicable ECCN of the Commerce Control List in part 774 of the EAR, and

(*2*) Such foreign-made direct products of the plant or major component are in the 9x515 or ''600 series'' as designated on the applicable ECCN of the Commerce Control List in part 774 of the EAR.

(v) 9x515 and ''600 series'' foreign-produced direct products of U.S. ''technology'' or ''software'' subject to this General Prohibition Three do not require a license for reexport or export from abroad to the new destination unless the same item, if exported from the U.S. to the new destination would have been prohibited or made subject to a license requirement by part 742, 744, 746, or 764 of the EAR.

(vi) *License Exceptions.* Each license exception described in part 740 of the

EAR supersedes this General Prohibition Three if all terms and conditions of a given exception are met and the restrictions in § 740.2 do not apply.

(4) *General Prohibition Four (Denial Orders)—Engaging in actions prohibited by a denial order.* (i) You may not take any action that is prohibited by a denial order issued under part 766 of the EAR, Administrative Enforcement Proceedings. These orders prohibit many actions in addition to direct exports by the person denied export privileges, including some transfers within a single country, either in the United States or abroad, by other persons. You are responsible for ensuring that any of your transactions in which a person who is denied export privileges is involved do not violate the terms of the order. Orders denying export privileges are published in the FEDERAL REGISTER when they are issued and are the legally controlling documents in accordance with their terms. BIS also maintains compilations of persons denied export privileges on its Web site at *http://www.bis.doc.gov*. BIS may, on an exceptional basis, authorize activity otherwise prohibited by a denial order. See § 764.3(a)(2) of the EAR.

(ii) There are no License Exceptions described in part 740 of the EAR that authorize conduct prohibited by this General Prohibition Four.

(5) *General Prohibition Five—Export or reexport to prohibited end-uses or end-users (End-Use End-User).* You may not, without a license, knowingly export or reexport any item subject to the EAR to an end-user or end-use that is prohibited by part 744 of the EAR.

(6) *General Prohibition Six—Export or reexport to embargoed destinations (Embargo).* (i) You may not, without a license or License Exception authorized under part 746, export or reexport any item subject to the EAR to a country that is embargoed by the United States or otherwise made subject to controls as both are described at part 746 of the EAR.

(ii) License Exceptions to General Prohibition Six are described in part 746 of the EAR, on Embargoes and Other Special Controls. Unless a License Exception or other authorization is authorized in part 746 of the EAR, the License Exceptions described in part 740 of the EAR are not available to overcome this general prohibition.

(7) *General Prohibition Seven—Support of proliferation activities (U.S. person proliferation activity)*—(i) *Support of proliferation activities (U.S. person proliferation activity).* (A) If you are a U.S. person as that term is defined in § 744.6(c) of the EAR, you may not engage in any activities prohibited by § 744.6(a) or (b) of the EAR, which prohibits the performance, without a license from BIS, of certain financing, contracting, service, support, transportation, freight forwarding, or employment that you know will assist in certain proliferation activities described further in part 744 of the EAR. There are no License Exceptions to this General Prohibition Seven in part 740 of the EAR unless specifically authorized in that part.

(B) If you are a U.S. person as that term is defined in § 744.6(c) of the EAR, you may not export a Schedule 1 chemical listed in supplement no. 1 to Part 745 without first complying with the provisions of §§ 742.18 and 745.1 of the EAR.

(C) If you are a U.S. person as that term is defined in § 744.6(c) of the EAR, you may not export a Schedule 3 chemical listed in supplement no. 1 to part 745 to a destination not listed in supplement no. 2 to Part 745 without complying with the End-Use Certificate requirements in § 745.2 of the EAR that apply to Schedule 3 chemicals controlled for CW reasons in ECCN 1C350, ECCN 1C355, or ECCN 1C395.

(8) *General Prohibition Eight—In transit shipments and items to be unladen from vessels or aircraft (Intransit)*—(i) *Unlading and shipping in transit.* You may not export or reexport an item through, or transit through a country listed in paragraph (b)(8)(ii) of this section, unless a license exception or license authorizes such an export or reexport directly to or transit through such a country of transit, or unless such an export or reexport is eligible to such a country of transit without a license.

(ii) *Country scope.* This General Prohibition Eight applies to Armenia, Azerbaijan, Belarus, Cambodia, Cuba, Georgia, Kazakhstan, Kyrgyzstan, Laos, Mongolia, North Korea, Russia,

Tajikistan, Turkmenistan, Ukraine, Uzbekistan, Vietnam.

(9) *General Prohibition Nine—Violation of any order, terms, and conditions (Orders, Terms, and Conditions).* You may not violate terms or conditions of a license or of a License Exception issued under or made a part of the EAR, and you may not violate any order issued under or made a part of the EAR. There are no License Exceptions to this General Prohibition Nine in part 740 of the EAR. Supplements Nos. 1 and 2 to this part provide for certain General Orders and Administrative Orders.

(10) *General Prohibition Ten—Proceeding with transactions with knowledge that a violation has occurred or is about to occur (Knowledge Violation to Occur).* You may not sell, transfer, export, reexport, finance, order, buy, remove, conceal, store, use, loan, dispose of, transport, forward, or otherwise service, in whole or in part, any item subject to the EAR and exported or to be exported with knowledge that a violation of the Export Administration Regulations, the Export Administration Act or any order, license, License Exception, or other authorization issued thereunder has occurred, is about to occur, or is intended to occur in connection with the item. Nor may you rely upon any license or License Exception after notice to you of the suspension or revocation of that license or exception. There are no License Exceptions to this General Prohibition Ten in part 740 of the EAR.

[61 FR 12754, Mar. 25, 1996]

EDITORIAL NOTE: For FEDERAL REGISTER citations affecting §736.2, see the List of CFR Sections Affected, which appears in the Finding Aids section of the printed volume and at *www.fdsys.gov*.

SUPPLEMENT NO. 1 TO PART 736—GENERAL ORDERS

(a) General Order No. 1:

General Order No. 1 of September 16, 1998; Establishing a 24-month validity period on reexport authorizations issued without a validity period and revoking those exceeding that period.

(1) Reexport authorizations issued within 24-months of the General Order. All reexport authorizations issued with no validity period within the 24-months preceding September 16, 1998 shall be deemed to have an expiration date which shall be the date 24-months from the date of issuance of the reexport authorization or November 16, 1998, whichever is longer.

(2) Reexport authorizations issued before the 24-month period preceding the General Order. For reexport authorizations issued with no validity period before the 24-month period preceding September 16, 1998:

(i) Effective September 16, 1998, all such outstanding reexport authorizations for terrorist-supporting countries (see parts 742 and 746 of the EAR) are revoked.

(ii) Effective November 16, 1998, all other such outstanding reexport authorizations are revoked.

(3) Extensions. If necessary, you may request extensions of such authorizations according to procedures set forth in §750.7(g) of the EAR.

(4) Specific Notice from BIS. If you have received, or should you receive, specific notice from BIS with regard to a reexport authorization covered by this General Order, informing you of a revocation, suspension, or revision (including validity period) of any such reexport authorization, then the terms of that specific notice will be controlling.

(5) Definition of ''authorization''. The term ''authorization'' as used in this General Order encompasses the range of reexport authorizations granted by BIS, which includes licenses, individual letters, and other types of notifications.

(b) General Order No. 2:

General Order No. 2; section 5(b) of the Syria Accountability and Lebanese Sovereignty Restoration Act of 2003 (SAA) gives the President authority to waive the application of certain prohibitions set forth in the SAA if the President determines that it is in the national security interest of the United States to do so. The President made such a determination in Executive Order 13338, finding that it was ''in the national security interest of the United States to waive application of subsection 5(a)(1) and 5(a)(2)(A) of the SAA so as to permit the exportation or reexportation of certain items as specified in the Department of Commerce's General Order No. 2.'' The President's reference to General Order No. 2 addresses applications to export and reexport the following items, which are considered on a case-by-case basis as opposed to the general policy of denial set forth in section 746.9 of the Regulations: Items in support of activities, diplomatic or otherwise, of the United States Government (to the extent that regulation of such exportation or reexportation would not fall within the President's constitutional authority to conduct the nation's foreign affairs); medicine (on the CCL) and medical devices (both as defined in part 772 of the EAR); parts and components intended to ensure the safety of civil aviation and the safe operation of commercial passenger aircraft; aircraft chartered by the Syrian Government for the

transport of Syrian Government officials on official Syrian Government business; telecommunications equipment and associated computers, software and technology; items in support of United Nations operations in Syria; and items necessary for the support of the Syrian people, including, but not limited to, items related to water supply and sanitation, agricultural production and food processing, power generation, oil and gas production, construction and engineering, transportation, and educational infrastructure. The total dollar value of each approved license for aircraft parts for flight safety normally will be limited to no more than $2 million over the 24-month standard license term, except in the case of complete overhauls.

NOTE TO GENERAL ORDER NO. 2: The controls for exports and reexports to Syria are set forth in §746.9 of the EAR.

(c) General Order No. 3:

General Order No. 3 of July 22, 2015. Certain licenses issued by BIS prior to July 22, 2015 contain conditions that restrict the export, reexport, or transfer (in-country) to or within Country Group E:1 as specified in supplement no. 1 to part 740 of the EAR. At the time those license were issued, Cuba was in Country Group E:1. Many of those restrictions were intended to apply to Cuba, not only as a State Sponsor of Terrorism but also as a country subject to unilateral embargo. However, BIS did not always list both Country Groups E:1 and E:2 in license conditions because, at the time, doing so would have been redundant. However, with the rescission of Cuba's designation as a State Sponsor of Terrorism and resultant removal from Country Group E:1, continuing those conditions with respect to Cuba is consistent with the embargo. Accordingly, all conditions that apply to Country Group E:1 on licenses issued prior to July 22, 2015 that are in effect on that date, are revised to apply to Country Groups E:1 and E:2 as specified in supplement no. 1 to part 740 of the EAR. Licensees who seek authorization for transactions that are affected by this General Order No. 3 may submit license applications that refer to General Order No. 3 and explain the reason for the request in Block 24 of the application. All license applications involving Cuba are reviewed pursuant to the licensing policy in §746.2(b) of the EAR. The request should provide any available information in support of the argument that the transaction would be consistent with the licensing policy in §746.2(b) of the EAR.

(d) General Order No. 4 [Reserved]

(e) General Order No. 5:

General Order No. 5 of April 16, 2013; Authorization for Items the President Determines No Longer Warrant Control under the United States Munitions List (USML).

(1) *Continued use of DDTC approvals from the Department of State's Directorate of Defense Trade Controls (DDTC) for items that become subject to the EAR.* Items the President has determined no longer warrant control under the USML will become subject to the EAR as published final rules that transfer the items to the CCL become effective. DDTC licenses, agreements, or other approvals that contain items transitioning from the USML to the CCL and that are issued prior to the effective date of the final rule transferring such items to the CCL may continue to be used in accordance with the Department of State's final rule, *Amendments to the International Traffic in Arms Regulations: Initial Implementation of Export Control Reform,* published on April 16, 2013 in the FEDERAL REGISTER.

(2) *BIS authorization.*

(i) Where continued use of DDTC authorization is not or is no longer an available option, or a holder of an existing DDTC authorization returns or terminates that authorization, any required authorization to export, reexport, or transfer (in-country) a transitioned item on or after the effective date of the applicable final rule must be obtained under the EAR. Following the publication date and prior to the effective date of a final rule moving an item from the USML to the CCL, applicants may submit license applications to BIS for authorization to export, reexport, or transfer (in-country) the transitioning item. BIS will process the license applications in accordance with §750.4 of the EAR, hold the license application without action (HWA) if necessary, and issue a license, if approved, to the applicant no sooner than the effective date of the final rule transitioning the items to the CCL.

(ii) Following the effective date of a final rule moving items from the USML to the CCL, exporters, reexporters, and transferors of such items may return DDTC licenses in accordance with §123.22 of the ITAR or terminate Technical Assistance Agreements, Manufacturing License Agreements, or Warehouse and Distribution Agreements in accordance with §124.6 of the ITAR and thereafter export, reexport, or transfer (in-country) such items under applicable provisions of the EAR, including any applicable license requirements. No transfer (in-country) may be made of an item exported under a DDTC authorization containing provisos or other limitations without a license issued by BIS unless (i) the transfer (in-country) is authorized by an EAR license exception and the terms and conditions of the License Exception have been satisfied, or (ii) no license would otherwise be required under the EAR to export or reexport the item to the new end user.

(3) *Prior commodity jurisdiction determinations.* If the U.S. State Department has previously determined that an item is not subject to the jurisdiction of the ITAR and the item was not listed in a then existing ''018'' series ECCN (for purposes of the ''600 series''

ECCNs) or in a then existing ECCN 9A004.b or related software or technology ECCN (for purposes of the 9x515 ECCNs), then the item is per se not within the scope of a ''600 series'' ECCN or a 9x515 ECCN. If the item was not listed elsewhere on the CCL at the time of such determination (*i.e.*, the item was designated EAR99), the item shall remain designated as EAR99 unless specifically enumerated by BIS or DDTC in an amendment to the CCL or to the USML, respectively.

(4) *Voluntary Self-Disclosure.* Parties to transactions involving transitioning items are cautioned to monitor closely their compliance with the EAR and the ITAR. Should a possible or actual violation of the EAR, or of any license or authorization issued thereunder, be discovered, the person or persons involved are strongly encouraged to submit a Voluntary Self-Disclosure to the Office of Export Enforcement, in accordance with §764.5 of the EAR. Permission from the Office of Exporter Services, in accordance with §764.5(f) of the EAR, to engage in further activities in connection with that item may also be necessary. Should a possible or actual violation of the ITAR, or of any license or authorization issued thereunder, be discovered, the person or persons involved are strongly encouraged to submit a Voluntary Disclosure to DDTC, in accordance with §127.12 of the ITAR. For possible or actual violations of both the EAR and ITAR, the person or persons involved are strongly encouraged to submit disclosures to both BIS and DDTC, indicating to each agency that they also have made a disclosure to the other agency.

[78 FR 13468, Feb. 28, 2013, as amended at 78 FR 22707, Apr. 16, 2013; 78 FR 43973, July 23, 2013; 78 FR 61745, Oct. 3, 2013; 79 FR 32623, June 5, 2014; 79 FR 77865, Dec. 29, 2014; 80 FR 2289, Jan. 16, 2015; 80 FR 43318, July 22, 2015]

SUPPLEMENT NO. 2 TO PART 736—ADMINISTRATIVE ORDERS

Administrative Order One: Disclosure of License Issuance and Other Information. Consistent with section 12(c) of the Export Administrati on Act of 1979, as amended, information obtained by the U.S. Department of Commerce for the purpose of consideration of or concerning license applications, as well as related information, will not be publicly disclosed without the approval of the Secretary of Commerce. Electronic Export Information (EEI) filings via the Automated Export System (AES) are also exempt from public disclosure, except with the approval of the Secretary of Commerce, in accordance with §301(g) of Title 13, United States Code.

Administrative Order Two: Conduct of Business and Practice in Connection with Export Control Matters.

(a) Exclusion of persons guilty of unethical conduct or not possessing required integrity and ethical standards.

(1) *Who may be excluded.* Any person, whether acting on his own behalf or on behalf of another, who shall be found guilty of engaging in any unethical activity or who shall be demonstrated not to possess the required integrity and ethical standards, may be excluded from (denied) export privileges on his own behalf, or may be excluded from practice before BIS on behalf of another, in connection with any export control matter, or both, as provided in part 764 of the EAR.

(2) *Grounds for exclusion.* Among the grounds for exclusion are the following:

(i) Inducing or attempting to induce by gifts, promises, bribes, or otherwise, any officer or employee of BIS or any customs or post office official, to take any action with respect to the issuance of licenses or any other aspects of the administration of the Export Administration Act, whether or not in violation of any regulation;

(ii) Offering or making gifts or promises thereof to any such officer or employee for any other reason;

(iii) Soliciting by advertisement or otherwise the handling of business before BIS on the representation, express or implied, that such person, through personal acquaintance or otherwise, possesses special influence over any officer or employee of BIS;

(iv) Charging, or proposing to charge, for any service performed in connection with the issuance of any license, any fee wholly contingent upon the granting of such license and the amount or value thereof. This provision will not be construed to prohibit the charge of any fee agreed to by the parties; provided that the out-of-pocket expenditures and the reasonable value of the services performed, whether or not the license is issued and regardless of the amount thereof, are fairly compensated; and

(v) Knowingly violating or participating in the violation of, or an attempt to violate, any regulation with respect to the export of commodities or technical data, including the making of or inducing another to make any false representations to facilitate any export in violation of the Export Administration Act or any order or regulation issued thereunder.

(3) *Definition.* As used in this Administrative Order, the terms ''practice before BIS'' and ''appear before BIS'' include:

(i) The submission on behalf of another of applications for export licenses or other documents required to be filed with BIS, or the execution of the same;

(ii) Conferences or other communications on behalf of another with officers or employees of BIS for the purpose of soliciting or expediting approval by BIS of applications for export licenses or other documents, or with respect to quotas, allocations, requirements

or other export control actions, pertaining to matters within the jurisdiction of BIS;

(iii) Participating on behalf of another in any proceeding pending before BIS;

(iv) Submission on behalf of another of a license or other export control document to U.S. Customs and Border Protection (CBP); and

(v) Reporting on behalf of another Electronic Export Information via the Automated Export System (AES) to CBP.

(4) *Proceedings*. All proceedings under this Administrative Order shall be conducted in the same manner as provided in part 766 of the EAR.

(b) *Employees and former employees*. Persons who are or at any time have been employed on a full-time or part-time, compensated or uncompensated, basis by the U.S. Government are subject to the provisions of 18 U.S.C. 203, 205, and 207 (Pub. L. 87–849, 87th Congress) in connection with representing a private party or interest before the U.S. Department of Commerce in connection with any export control matter.

[61 FR 12754, Mar. 25, 1996, as amended at 70 FR 54628, Sept. 16, 2005; 70 FR 62238, Oct. 31, 2005; 79 FR 4615, Jan. 29, 2014; 79 FR 32623, June 5, 2014]

PART 738—COMMERCE CONTROL LIST OVERVIEW AND THE COUNTRY CHART

Sec.

738.1 Introduction.
738.2 Commerce Control List (CCL) structure.
738.3 Commerce Country Chart structure.
738.4 Determining whether a license is required.
SUPPLEMENT NO. 1 TO PART 738—COMMERCE COUNTRY CHART

AUTHORITY: 50 U.S.C. 4601 *et seq.;* 50 U.S.C. 1701 *et seq.;* 10 U.S.C. 7420; 10 U.S.C. 7430(e); 22 U.S.C. 287c; 22 U.S.C. 3201 *et seq.;* 22 U.S.C. 6004; 42 U.S.C. 2139a; 15 U.S.C. 1824a; 50 U.S.C. 4305; 22 U.S.C. 7201 *et seq.;* 22 U.S.C. 7210; E.O. 13026, 61 FR 58767, 3 CFR, 1996 Comp., p. 228; E.O. 13222, 66 FR 44025, 3 CFR, 2001 Comp., p. 783; Notice of August 4, 2016, 81 FR 52587 (August 8, 2016).

SOURCE: 61 FR 12756, Mar. 25, 1996, unless otherwise noted.

§ 738.1 Introduction.

(a) *Commerce Control List scope*. (1) In this part, references to the EAR are references to 15 CFR chapter VII, subchapter C. The Bureau of Industry and Security (BIS) maintains the Commerce Control List (CCL) within the Export Administration Regulations (EAR), which includes items (i.e., commodities, software, and technology) subject to the export licensing authority of BIS. The CCL does not include those items exclusively controlled for export or reexport by another department or agency of the U.S. Government. In instances where agencies other than the Department of Commerce administer controls over related items, entries in the CCL contain a reference to these controls.

(2) The CCL is contained in supplement no. 1 to part 774 of the EAR. Supplement no. 2 to part 774 of the EAR contains the General Technology and Software Notes relevant to entries contained in the CCL.

(3) *Items that warrant control for export or reexport but currently are not permanently classified on the CCL*. Items subject to temporary CCL controls are classified under the ECCN 0Y521 series (i.e., 0A521, 0B521, 0C521, 0D521, and 0E521) pursuant to § 742.6(a)(7) of the EAR while a determination is made as to whether classification under a revised or new ECCN, or an EAR99 designation, is appropriate.

(b) *Commerce Country Chart scope*. BIS also maintains the Commerce Country Chart. The Commerce Country Chart, located in supplement no. 1 to part 738, contains licensing requirements based on destination and Reason for Control. In combination with the CCL, the Commerce Country Chart allows you to determine whether a license is required for items on the CCL to any country in the world.

[61 FR 12756, Mar. 25, 1996, as amended at 77 FR 22198, Apr. 13, 2012]

§ 738.2 Commerce Control List (CCL) structure.

(a) *Categories*. The CCL is divided into 10 categories, numbered as follows:

0—Nuclear Materials, Facilities and Equipment and Miscellaneous
1—Materials, Chemicals, ''Microorganisms,'' and Toxins
2—Materials Processing
3—Electronics
4—Computers
5—Telecommunications and Information Security
6—Lasers and Sensors
7—Navigation and Avionics
8—Marine

9—Aerospace and Propulsion

(b) *Groups*. Within each category, items are arranged by group. Each category contains the same five groups. Each Group is identified by the letters A through E, as follows:

A—Equipment, Assemblies and Components
B—Test, Inspection and Production Equipment
C—Materials
D—Software
E—Technology

(c) *Order of review*. The CCL includes a supplement no. 4 to part 774—Commerce Control List Order of Review. This supplement establishes the steps (i.e., the order of review) that should be followed in classifying items that are ''subject to the EAR.''

(d) *Entries*—(1) *Composition of an entry*. Within each group, individual items are identified by an Export Control Classification Number (ECCN). Each number consists of a set of digits and a letter. The first digit identifies the general category within which the entry falls (e.g., 3*A*001). The letter immediately following this first digit identifies under which of the five groups the item is listed (e.g., *3* A001). The second digit differentiates individual entries by identifying the type of controls associated with the items contained in the entry (e.g., 3A*0*01). Listed below are the Reasons for Control associated with this second digit.

0: National Security reasons (including Dual Use and Wassenaar Arrangement Munitions List) and Items on the NSG Dual Use Annex and Trigger List
1: Missile Technology reasons
2: Nuclear Nonproliferation reasons
3: Chemical & Biological Weapons reasons
5: Items warranting national security or foreign policy controls at the determination of the Department of Commerce.
6: ''600 series'' controls items because they are items on the Wassenaar Arrangement Munitions List (WAML) or formerly on the U.S. Munitions List (USML).
9: Anti-terrorism, Crime Control, Regional Stability, Short Supply, UN Sanctions, etc.

(i) Since Reasons for Control are not mutually exclusive, numbers are assigned in order of precedence. As an example, if an item is controlled for both National Security and Missile Technology reasons, the entry's third digit will be a ''0''. If the item is controlled only for Missile Technology the third digit will be ''1''.

(ii) The numbers in either the second or third digit (e.g., 3A*00*1) serve to differentiate between multilateral and unilateral entries. An entry with the number ''9'' as the second digit, identifies the entire entry as controlled for a unilateral concern (e.g., 2B991 for anti-terrorism reasons). If the number ''9'' appears as the third digit, the item is controlled for unilateral purposes based on a proliferation concern (e.g., 2A290 is controlled for unilateral purposes based on nuclear nonproliferation concerns).

(iii) The last digit within each entry (e.g., 3A001) is used for the sequential numbering of ECCNs to differentiate between entries on the CCL.

(iv) Last two characters in a ''600 series'' ECCN. The last two characters of each ''600 series'' ECCN generally track the Wassenaar Arrangement Munitions List (WAML) categories for the types of items at issue. The WAML ML21 (''software'') and ML22 (''technology'') are, however, included in D (''software'') and E (''technology'') CCL product groups to remain consistent with the structure of the CCL.

(2) *Reading an ECCN*. An ECCN is made up of four sections, the ''Heading,'' ''License Requirements,'' ''License Exceptions,'' and ''List of Items Controlled'' sections. A brief description of each section and its use follows:

(i) *Heading*. A description of the items controlled is provided next to each ECCN. In certain ECCNs, the description is a summary and will direct you to ''see List of Items Controlled'' for a complete list of items classified under those respective ECCNs. The ''Items'' paragraph in the List of Items Controlled section will describe all of the items that the ECCN controls for the portions of the heading that precede the ''see List of Items Controlled'' phrase. Portions of the heading that follow the phrase are complete descriptions of the items controlled by that portion of the heading. If ''see List of Items Controlled'' appears at the end of the heading, the ''Items'' paragraph in the List of Items Controlled section is the exclusive, complete list of the items the ECCN controls.

(ii) *License Requirements.* This section contains a separate line identifying all possible Reasons for Control in order of precedence, and two columns entitled ''Control(s)'' and ''Country Chart''.

(A) The ''Controls'' header identifies all applicable Reasons for Control, in order of restrictiveness, and to what extent each applies (e.g., to the entire entry or only to certain subparagraphs). Those requiring licenses for a larger number of countries and/or items are listed first. As you read down the list the number of countries and/or items requiring a license declines. Since Reasons for Control are not mutually exclusive, items controlled within a particular ECCN may be controlled for more than one reason. The following is a list of all possible Reasons for Control:

AT Anti-Terrorism
CB Chemical & Biological Weapons
CC Crime Control
CW Chemical Weapons Convention
EI Encryption Items
FC Firearms Convention
MT Missile Technology
NS National Security
NP Nuclear Nonproliferation
RS Regional Stability
SS Short Supply
UN United Nations Embargo
SI Significant Items
SL Surreptitious Listening

(B) The ''Country Chart'' header identifies, for each applicable Reason for Control, a column name and number (e.g., CB Column 1). These column identifiers are used to direct you from the CCL to the appropriate column identifying the countries requiring a license. Consult part 742 of the EAR for an indepth discussion of the licensing requirements and policies applicable to each Country Chart column.

(iii) *License Exceptions.* This section provides a brief eligibility statement for each ECCN-driven License Exception that may be applicable to your transaction, and should be consulted only AFTER you have determined a license is required based on an analysis of the entry and the Country Chart. The brief eligibility statement in this section is provided to assist you in deciding which ECCN-driven License Exception related to your particular item and destination you should explore prior to submitting an application. The term ''Yes'' (followed in some instances by the scope of Yes) appears next to each available ECCN-driven License Exception. Some ECCNs have License Exception STA exclusion paragraphs. These paragraphs identify items for which the License Exception STA provisions in § 740.20(c)(2) of the EAR may not be used, but do not otherwise affect License Exception STA availability. The term ''N/A'' will be noted for License Exceptions that are not available within a particular entry. In some ''600 series'' ECCNs, the STA license exception paragraph or a note to the License Exceptions section contains additional information on the availability of License Exception STA for that ECCN. If one or more License Exceptions appear to apply to your transaction, you must consult part 740 of the EAR to review the conditions and restrictions applicable to each available License Exception. The list of License Exceptions contained within each ECCN is not an all-exclusive list. Other License Exceptions, not based on particular ECCNs, may be available. Consult part 740 of the EAR to determine eligibility for non-ECCN-driven License Exceptions.

(iv) *List of Items Controlled*—(A) *Related definitions.* This header identifies, where appropriate, definitions or parameters that apply to all items controlled by the entry. The information provided in this section is unique to the entry, and hence not listed in the definitions contained in part 772 of the EAR.

(B) *Related controls.* If another U.S. government agency or department has export licensing authority over items related to those controlled by an entry, a statement is included identifying the agency or department along with the applicable regulatory cite. An additional cross-reference may be included in instances where the scope of controls differs between a CCL entry and its corresponding entry on list maintained by the European Union. This information is provided to assist readers who use both lists.

(C) *Items.* This paragraph describes the relationship between the ''items'' paragraph and ECCN headings and will assist your understanding as you classify items on the CCL. When the heading contains the phrase ''see List of

Items Controlled,'' the portion of the heading preceding that phrase is only a summary of the items controlled by the ECCN and the ''items'' paragraph contains an exclusive list of items described in the heading. Paragraphs (d)(2)(iv)(C)(*1*), (*2*) and (*3*) of this section provide examples of the three different uses of the phrase ''(see List of Items Controlled)'' in ECCN headings. Each heading on the CCL uses one of these three structures. Understanding the relationship between the heading and the ''items'' paragraph is important when classifying items that are ''subject to the EAR'' on the CCL.

(*1*) ''(See List of Items Controlled)'' is at the end of the ECCN heading. An example of an ECCN where all of the heading text precedes the phrase ''(see List of Items Controlled)'' is ECCN 8A002 Marine systems, equipment, ''parts'' and ''components,'' as follows (see List of Items Controlled). ECCNs 1A001, 3A001, 6A001, 7A004 and 9A012 are other examples where all of the heading text precedes the phrase ''(see List of Items Controlled).'' In these types of headings, the items paragraphs must be reviewed to determine whether your item is contained within the heading and classified under that ECCN.

(*2*) ''(See List of Items Controlled)'' is in the middle of the ECCN heading. If the phrase ''(see List of Items Controlled)'' appears in the middle of the ECCN heading, then all portions of the heading that follow the phrase ''(see List of Items Controlled)'' will list items controlled in addition to the list in the ''items'' paragraph. An example of such a heading is ECCN 2B992 Non-''numerically controlled'' machine tools for generating optical quality surfaces, (see List of Items Controlled) and ''specially designed'' ''parts'' and ''components'' therefor. Under the ECCN 2B992 example, the ''items'' paragraph must be reviewed to determine whether your item is contained within the first part of the heading (''non-'numerically controlled' machine tools for generating optical quality surfaces'') and classified under 2B992. The second part of the ECCN 2B999 heading (''and 'specially designed' 'parts' and 'components' therefor'') contains the exclusive list described in the heading. ECCNs 1A006, 3B992, 4A001, 6A006 and 7A001 are other examples where the phrase ''(see List of Items Controlled)'' appears in the middle of the ECCN heading.

(*3*) ECCNs that do not use the phrase ''(see List of Items controlled).'' When all items classified in the ECCN are listed in the heading, a sentence is generally included in the ''items'' paragraph to direct you to the heading. An example of such a heading is ECCN 4E980 ''Technology'' for the ''development,'' ''production'' or ''use'' of commodities controlled by 4A980. ECCNs 0A982, 5D101, 8D001 and 9A002 are other examples where the heading is the exclusive description of the items classified under those respective ECCNs.

[61 FR 112756, Mar. 25, 1996, as amended at 61 FR 68579, Dec. 30, 1996; 62 FR 25456, May 9, 1997; 64 FR 17970, Apr. 13, 1999; 27141, May 18, 1999; 70 FR 54628, Sept. 16, 2005; 71 FR 20883, Apr. 24, 2006; 71 FR 67035, Nov. 20, 2006; 72 FR 43531, Aug. 6, 2007; 76 FR 35286, June 16, 2011; 78 FR 22708, Apr. 16, 2013; 78 FR 61900, Oct. 4, 2013; 79 FR 77866, Dec. 29, 2014; 81 FR 85144, Nov. 25, 2016]

§ 738.3 Commerce Country Chart structure.

(a) *Scope.* The Commerce Country Chart allows you to determine the Commerce Control List (CCL) export and reexport license requirements for most items listed on the CCL. Such license requirements are based on the Reasons for Control listed in the Export Control Classification Number (ECCN) that applies to the item. Some ECCNs, however, impose license requirements either without reference to a reason for control code that is listed on the Commerce Country Chart, or in addition to such a reference. Those ECCNs may state their license requirements in full in their ''Reasons for Control'' sections or they may refer the reader to another provision of the EAR for license requirement information. In addition, some ECCNs do not impose license requirements, but refer the reader to the regulations of another government agency that may impose license requirements on the items described in that ECCN.

(1) ECCNs 0A983, 5A001.f.1, 5A980, 5D001 (for 5A001.f.1, or for 5E001.a (for 5A001.f.1 or for 5D001.a (for 5A001.f.1))), 5D980, 5E001.a (for 5A001.f.1, or for

5D001.a (for 5A001.f.1)) and 5E980. A license is required for all destinations for items controlled under these entries. For items controlled by 0A983, 5E001.a (for 5A001.f.1, or for 5D001.a (for 5A001.f.1)) and 5E980, no license exceptions apply. For items controlled by 5A001.f.1, 5A980, 5D001 (for 5A001.f.1 or for 5E001.a (for 5A001.f.1, or for 5D001.a (for 5A001.f.1))) and 5D980, License Exception GOV may apply if your item is consigned to and for the official use of an agency of the U.S. Government (see § 740.2(a)(3)). If your item is controlled by 0A983, 5A001.f.1, 5A980, 5D001 (for 5A001.f.1 or for 5E001.a (for 5A001.f.1, or for 5D001.a (for 5A001.f.1))), 5D980, 5E001.a (for 5A001.f.1, or for 5D001.a (for 5A001.f.1)) or 5E980 you should proceed directly to part 748 of the EAR for license application instructions and § 742.11 or § 742.13 of the EAR for information on the licensing policy relevant to these types of applications.

(2) [Reserved]

(b) *Countries*. The first column of the Country Chart lists countries in alphabetical order. There are a number of destinations that are not listed in the Country Chart contained in supplement no. 1 to part 738. If your destination is not listed on the Country Chart and such destination is a territory, possession, dependency or department of a country included on the Country Chart, the EAR accords your destination the same licensing treatment as the country of which it is a territory, possession, dependency or department. For example, if your destination is the Cayman Islands, a dependent territory of the United Kingdom, refer to the United Kingdom on the Country Chart for licensing requirements. In addition, if your destination is Liechtenstein, which serves as one territory with Switzerland for purposes of the EAR, refer to Switzerland on the Country Chart for licensing requirements.

(c) *Columns*. Stretching out to the right are horizontal headers identifying the various Reasons for Control. Under each Reason for Control header are diagonal column identifiers capping individual columns. Each column identifier consists of the two letter Reason for Control and a column number. (e.g., CB Column 1). The column identifiers correspond to those listed in the ''Country Chart'' header within the ''License Requirements'' section of each ECCN.

(d) *Cells*. The symbol ''X'' is used to denote licensing requirements on the Country Chart. If an ''X'' appears in a particular cell, transactions subject to that particular Reason for Control/Destination combination require a license. There is a direct correlation between the number of ''X''s applicable to your transaction and the number of licensing reviews your application will undergo.

[61 FR 12756, Mar. 25, 1996, as amended at 63 FR 42228, Aug. 7, 1998; 65 FR 55178, Sept. 13, 2000; 70 FR 8249, Feb. 18, 2005; 71 FR 67035, Nov. 20, 2006; 76 FR 54930, Sept. 6, 2011; 76 FR 70339, Nov. 14, 2011; 77 FR 39367, July 2, 2012; 78 FR 37382, June 20, 2013]

§ 738.4 Determining whether a license is required.

(a) *Using the CCL and the Country Chart*—(1) *Overview*. Once you have determined that your item is classified under a specific ECCN, you must use information contained in the ''License Requirements'' section of that ECCN in combination with the Country Chart to decide whether a license is required. Note that not all license requirements set forth under the ''License Requirements'' section of an ECCN refer you to the Commerce Country Chart, but in some cases this section will contain references to a specific section in the EAR for license requirements. In such cases, this section would not apply.

(2) *License decision making process*. The following decision making process must be followed in order to determine whether a license is required to export or reexport a particular item to a specific destination:

(i) *Examine the appropriate ECCN in the CCL*. Is the item you intend to export or reexport controlled for a single Reason for Control?

(A) If yes, identify the single Reason for Control and the relevant Country Chart column identifier (e.g., CB Column 1).

(B) If no, identify the Country Chart column identifier for each applicable Reason for Control (e.g., NS Column 1, NP Column 1, etc.).

(ii) *Review the Country Chart*. With each of the applicable Country Chart

Column identifiers noted, turn to the Country Chart (supplement no. 1 to part 738). Locate the correct Country Chart column identifier on the diagonal headings, and determine whether an ''X'' is marked in the cell next to the country in question for each Country Chart column identified in the applicable ECCN. If your item is subject to more than one reason for control, repeat this step using each unique Country Chart column identifier.

(A) If yes, a license application must be submitted based on the particular reason for control and destination, unless a License Exception applies. If ''Yes'' is noted next to any of the listed License Exceptions, you should consult part 740 of the EAR to determine whether you can use any of the available ECCN-drvien License Exceptions to effect your shipment, rather than applying for a license. Each affirmative license requirement must be overcome by a License Exception. If you are unable to qualify for a License Exception based on each license requirement noted on the Country Chart, you must apply for a license. Note that other License Exceptions, not related to the CCL, may also apply to your transaction (See part 740 of the EAR).

(B) If no, a license is not required based on the particular Reason for Control and destination. Provided that General Prohibitions Four through Ten do not apply to your proposed transaction and the License Requirement section does not refer you to any other part of the EAR to determine license requirements. For example, any applicable encryption classification requirements described in § 740.17(b) of the EAR must be met for certain mass market encryption items to affect your shipment using the symbol ''NLR.'' Proceed to parts 758 and 762 of the EAR for information on export clearance procedures and recordkeeping requirements. Note that although you may stop after determining a license is required based on the first Reason for Control, it is best to work through each applicable Reason for Control. A full analysis of every possible licensing requirement based on each applicable Reason for Control is required to determine the most advantageous License Exception available for your particular transaction and, if a license is required, ascertain the scope of review conducted by BIS on your license application.

(b) *Sample analysis using the CCL and Country Chart*—(1) *Scope*. The following sample entry and related analysis is provided to illustrate the type of thought process you must complete in order to determine whether a license is required to export or reexport a particular item to a specific destination using the CCL in combination with the Country Chart.

(2) Sample CCL entry.

2A000: Entry heading.
LICENSE REQUIREMENTS

REASON FOR CONTROL: NS, NP, AT

Control(s)	Country chart (see supp. No. 1 to part 738).
NS applies to entire entry	NS Column 2.
NP applies to 2A000.b	NP Column 1.
AT applies to entire entry	AT Column 1.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
LVS: $5,000.
GBS: Yes.
CIV: N/A.
LIST OF ITEMS CONTROLLED
Related Controls: N/A.
Related Definitions: N/A.
Items: a. Having x.
b. Having z.

(3) *Sample analysis*. After consulting the CCL, I determine my item, valued at $10,000, is classified under ECCN 2A000.a. I read that the entire entry is controlled for national security, and anti-terrorism reasons. Since my item is classified under paragraph .a, and not .b, I understand that though nuclear nonproliferation controls apply to a portion of the entry, they do not apply to my item. I note that the appropriate Country Chart column identifiers are NS Column 2 and AT Column 1. Turning to the Country Chart, I locate my specific destination, India, and see that an ''X'' appears in the NS Column 2 cell for India, but not in the AT Column 1 cell. I understand that a license is required, unless my transaction qualifies for a License Exception. From the License Exception LVS value listed in the entry, I know immediately that my proposed transaction exceeds the value limitation associated

with LVS. Noting that License Exception GBS is ''Yes'' for this entry, I turn to part 740 of the EAR to review the provisions related to use of GBS.

[61 FR 12756, Mar. 25, 1996, as amended at 67 FR 38861, June 6, 2002; 70 FR 54628, Sept. 16, 2005; 73 FR 57503, Oct. 3, 2008; 74 FR 52883, Oct. 15, 2009; 75 FR 36490, June 25, 2010; 78 FR 61901, Oct. 4, 2013; 79 FR 32623, June 5, 2014; 80 FR 51730, Aug. 26, 2015; 81 FR 64668, Sept. 20, 2016]

Supplement No. 1 to Part 738—Commerce Country Chart

[Reason for control]

Countries	Chemical and biological weapons			Nuclear nonproliferation		National security		Missile tech	Regional stability		Firearms convention	Crime control			Anti-terrorism	
	CB 1	CB 2	CB 3	NP 1	NP 2	NS 1	NS 2	MT 1	RS 1	RS 2	FC 1	CC 1	CC 2	CC 3	AT 1	AT 2
Afghanistan	X	X	X	X		X	X	X	X	X		X		X		
Albania[2 3]	X	X		X		X	X	X	X	X						
Algeria	X	X		X		X	X	X	X	X		X		X		
Andorra	X	X		X		X	X	X	X	X		X		X		
Angola	X	X		X		X	X	X	X	X		X		X		
Antigua and Barbuda	X	X		X		X	X	X	X	X	X	X		X		
Argentina	X					X		X	X		X	X		X		
Armenia	X	X	X	X		X	X	X	X	X		X	X			
Aruba	X	X		X		X	X	X	X	X		X		X		
Australia[3]	X					X		X	X							
Austria[3 4]	X					X		X	X			X		X		
Azerbaijan	X	X	X	X		X	X	X	X	X		X	X			
Bahamas, The	X	X		X		X	X	X	X	X	X	X		X		
Bahrain	X	X	X	X		X	X	X	X	X		X		X		
Bangladesh	X	X		X		X	X	X	X	X		X		X		
Barbados	X	X		X		X	X	X	X	X	X	X		X		
Belarus	X	X	X			X	X	X	X	X		X	X			
Belgium[3]	X					X		X	X							
Belize	X	X		X		X	X	X	X	X	X	X		X		
Benin	X	X		X		X	X	X	X	X		X		X		
Bhutan	X	X		X		X	X	X	X	X		X		X		
Bolivia	X	X		X		X	X	X	X	X	X	X		X		
Bosnia and Herzegovina	X	X		X		X	X	X	X	X		X		X		
Botswana	X	X		X		X	X	X	X	X		X		X		
Brazil	X	X				X	X	X	X	X	X	X		X		
Brunei	X	X		X		X	X	X	X	X		X		X		
Bulgaria[3]	X					X		X	X							
Burkina Faso	X	X		X		X	X	X	X	X		X		X		
Burma	X	X	X	X		X	X	X	X	X		X		X		
Burundi	X	X		X		X	X	X	X	X		X		X		
Cambodia	X	X		X		X	X	X	X	X		X	X			
Cameroon	X	X		X		X	X	X	X	X		X		X		
Canada	X										X					
Cape Verde	X	X		X		X	X	X	X	X		X		X		
Central African Republic	X	X		X		X	X	X	X	X		X		X		
Chad	X	X		X		X	X	X	X	X		X		X		
Chile	X	X		X		X	X	X	X	X	X	X		X		
China	X	X	X	X		X	X	X	X	X		X		X		
Colombia	X	X		X		X	X	X	X	X	X	X		X		
Comoros	X	X		X		X	X	X	X	X		X		X		

[Reason for control]

Countries	Chemical and biological weapons			Nuclear non-proliferation		National security		Missile tech	Regional stability		Fire-arms convention	Crime control			Anti-terrorism	
	CB 1	CB 2	CB 3	NP 1	NP 2	NS 1	NS 2	MT 1	RS 1	RS 2	FC 1	CC 1	CC 2	CC 3	AT 1	AT 2
Congo (Democratic Republic of the) [1].	X	X		X		X	X	X	X	X		X		X		
Congo (Republic of the)	X	X		X		X	X	X	X	X		X		X		
Costa Rica	X	X		X		X	X	X	X	X	X	X		X		
Cote d'Ivoire	X	X		X		X	X	X	X	X		X		X		
Croatia [3]	X					X		X	X							
Cuba	See part 746 of the EAR to determine whether a license is required in order to export or reexport to this destination.															
Curaçao	X	X		X		X	X	X	X	X		X		X		
Cyprus [2 3 4]	X					X	X	X	X	X		X		X		
Czech Republic [3]	X					X		X	X							
Denmark [3]	X					X		X	X							
Djibouti	X	X		X		X	X	X	X	X		X		X		
Dominica	X	X		X		X	X	X	X	X	X	X		X		
Dominican Republic	X	X		X		X	X	X	X	X	X	X		X		
Ecuador	X	X		X		X	X	X	X	X	X	X		X		
Egypt	X	X	X	X		X	X	X	X	X		X		X		
El Salvador	X	X		X		X	X	X	X	X	X	X		X		
Equatorial Guinea	X	X		X		X	X	X	X	X		X		X		
Eritrea [1]	X	X		X		X	X	X	X	X		X		X		
Estonia [3]	X					X		X	X							
Ethiopia	X	X		X		X	X	X	X	X		X		X		
Fiji	X	X		X		X	X	X	X	X		X	X	X		
Finland [3 4]	X					X		X	X			X		X		
France [3]	X					X		X	X							
Gabon	X	X		X		X	X	X	X	X		X		X		
Gambia, The	X	X		X		X	X	X	X	X		X		X		
Georgia	X	X	X	X		X	X	X	X	X		X	X			
Germany [3]	X					X		X	X							
Ghana	X	X		X		X	X	X	X	X		X		X		
Greece [3]	X					X		X	X							
Grenada	X	X		X		X	X	X	X	X	X	X		X		
Guatemala	X	X		X		X	X	X	X	X	X	X		X		
Guinea	X	X		X		X	X	X	X	X		X		X		
Guinea-Bissau	X	X		X		X	X	X	X	X		X		X		
Guyana	X	X		X		X	X	X	X	X	X	X		X		
Haiti	X	X		X		X	X	X	X	X	X	X		X		
Honduras	X	X		X		X	X	X	X	X	X	X		X		
Hong Kong	X	X		X		X	X	X	X	X		X		X		
Hungary [3]	X					X		X	X							
Iceland [3]	X					X		X	X							
India [7]	X	X		X		X	X	X	X							
Indonesia	X	X		X		X	X	X	X	X		X		X		

Iran[1]	See part 746 of the EAR to determine whether a license is required in order to export or reexport to this destination.													
Iraq[1]	X	X	X	X	X	X	X	X	X	X		X	X	
Ireland[3 4]	X					X		X	X			X		X
Israel	X	X	X	X	X	X	X	X	X	X		X		X
Italy[3]	X					X		X	X					
Jamaica	X	X		X		X	X	X	X	X	X	X		X
Japan[3]	X					X		X	X					
Jordan	X	X	X	X		X	X	X	X	X		X		X
Kazakhstan	X	X	X			X	X	X	X	X		X	X	
Kenya	X	X		X		X	X	X	X	X		X		X
Kiribati	X	X		X		X	X	X	X	X		X		X
Korea, North[1]	See Sections 742.19 and 746.4 of the EAR to determine whether a license is required in order to export or reexport to this destination.													
Korea, South[3 4]	X					X		X	X			X		X
Kosovo	X	X		X		X	X	X	X	X		X	X	X
Kuwait	X	X	X	X		X	X	X	X	X		X		X
Kyrgyzstan	X	X	X	X		X	X	X	X	X		X	X	
Laos	X	X		X		X	X	X	X	X		X	X	
Latvia[3]	X					X		X	X					
Lebanon[1]	X	X	X	X		X	X	X	X	X		X		X
Lesotho	X	X		X		X	X	X	X	X		X		X
Liberia	X	X		X		X	X	X	X	X		X		X
Libya[1]	X	X	X	X	X	X	X	X	X	X		X		X
Liechtenstein[5]	X					X		X	X			X		X
Lithuania[3]	X					X		X	X					
Luxembourg[3]	X					X		X	X					
Macau	X	X	X	X		X	X	X	X	X		X		X
Macedonia (The Former Yugoslav Republic of).	X	X		X		X	X	X	X	X		X		X
Madagascar	X	X		X		X	X	X	X	X		X		X
Malawi	X	X		X		X	X	X	X	X		X		X
Malaysia	X	X		X		X	X	X	X	X		X		X
Maldives	X	X		X		X	X	X	X	X		X		X
Mali	X	X		X		X	X	X	X	X		X		X
Malta[2 3 4]	X					X	X	X	X	X		X		X
Marshall Islands	X	X		X		X	X	X	X	X		X		X
Mauritania	X	X		X		X	X	X	X	X		X		X
Mauritius	X	X		X		X	X	X	X	X		X		X
Mexico	X					X		X	X		X	X		X
Micronesia (Federated State of)	X	X		X		X	X	X	X	X		X		X
Moldova	X	X	X	X		X	X	X	X	X		X	X	
Monaco	X	X		X		X	X	X	X	X		X		X
Mongolia	X	X	X	X		X	X	X	X	X		X	X	
Montenegro	X	X		X		X	X	X	X	X		X	X	X
Morocco	X	X		X		X	X	X	X	X		X		X
Mozambique	X	X		X		X	X	X	X	X		X		X
Namibia	X	X		X		X	X	X	X	X		X		X
Nauru	X	X		X		X	X	X	X	X		X		X
Nepal	X	X		X		X	X	X	X	X		X		X
Netherlands[3]	X					X		X	X					
New Zealand[3]	X					X		X	X					

[Reason for control]

Countries	Chemical and biological weapons			Nuclear non-proliferation		National security		Missile tech	Regional stability		Fire-arms convention	Crime control			Anti-terrorism	
	CB 1	CB 2	CB 3	NP 1	NP 2	NS 1	NS 2	MT 1	RS 1	RS 2	FC 1	CC 1	CC 2	CC 3	AT 1	AT 2
Nicaragua	X	X		X		X	X	X	X	X	X	X		X		
Niger	X	X		X		X	X	X	X	X		X		X		
Nigeria	X	X		X		X	X	X	X	X		X		X		
Norway [3]	X					X		X	X							
Oman	X	X	X	X		X	X	X	X	X		X		X		
Pakistan	X	X	X	X	X	X	X	X	X	X		X		X		
Palau	X	X		X		X	X	X	X	X		X		X		
Panama	X	X		X		X	X	X	X	X	X	X		X		
Papua New Guinea	X	X		X		X	X	X	X	X		X		X		
Paraguay	X	X		X		X	X	X	X	X	X	X		X		
Peru	X	X		X		X	X	X	X	X	X	X		X		
Philippines	X	X		X		X	X	X	X	X		X		X		
Poland [3]	X					X		X	X							
Portugal [3]	X					X		X	X							
Qatar	X	X	X	X		X	X	X	X	X		X		X		
Romania [3]	X					X		X	X							
Russia [6]	X	X	X			X	X	X	X	X		X	X			
Rwanda	X	X		X		X	X	X	X	X		X	X	X		
St. Kitts and Nevis	X	X		X		X	X	X	X	X	X	X		X		
St. Lucia	X	X		X		X	X	X	X	X	X	X		X		
St. Vincent and the Grenadines	X	X		X		X	X	X	X	X	X	X		X		
Samoa	X	X		X		X	X	X	X	X		X		X		
San Marino	X	X		X		X	X	X	X	X		X		X		
Sao Tome and Principe	X	X		X		X	X	X	X	X		X		X		
Saudi Arabia	X	X	X	X		X	X	X	X	X		X		X		
Senegal	X	X		X		X	X	X	X	X		X		X		
Serbia	X	X				X	X	X	X	X		X	X	X		
Seycheles	X	X		X		X	X	X	X	X		X		X		
Sierra Leone	X	X		X		X	X	X	X	X		X		X		
Singapore	X	X		X		X	X	X	X	X		X		X		
Sint Maarten (the Dutch two-fifths of the island of Saint Martin).	X	X		X		X	X	X	X	X		X		X		
Slovakia [3]	X					X		X	X							
Slovenia [3]	X					X		X	X							
Solomon Islands	X	X		X		X	X	X	X	X		X		X		
Somalia [1]	X	X		X		X	X	X	X	X		X		X		
South Africa [2 3 4]	X	X				X		X	X			X		X		
South Sudan, Republic of	X	X		X		X	X	X	X	X		X		X		
Spain [3]	X					X		X	X							
Sri Lanka	X	X		X		X	X	X	X	X		X		X		
Sudan [1]	X	X		X		X	X	X	X	X		X		X	X	X
Suriname	X	X		X		X	X	X	X	X	X	X		X		

Swaziland	X	X		X		X	X	X	X	X		X		X		
Sweden [3 4]	X					X		X	X			X		X		
Switzerland [3 4]	X					X		X	X			X		X		
Syria	See § 746.9 of the EAR to determine whether a license is required in order to export or reexport to this destination.															
Taiwan	X	X	X	X		X	X	X	X	X		X		X		
Tajikistan	X	X	X	X		X	X	X	X	X		X	X			
Tanzania	X	X		X		X	X	X	X	X		X		X		
Thailand	X	X		X		X	X	X	X	X		X		X		
Timor–Leste	X	X		X		X	X	X	X	X		X		X		
Togo	X	X		X		X	X	X	X	X		X		X		
Tonga	X	X		X		X	X	X	X	X		X		X		
Trinidad and Tobago	X	X		X		X	X	X	X	X	X	X		X		
Tunisia	X	X		X		X	X	X	X	X		X		X		
Turkey [3]	X					X		X	X							
Turkmenistan	X	X	X	X		X	X	X	X	X		X	X			
Tuvalu	X	X		X		X	X	X	X	X		X		X		
Uganda	X	X		X		X	X	X	X	X		X		X		
Ukraine [8]	X					X	X	X	X	X		X	X			
United Arab Emirates	X	X	X	X		X	X	X	X	X		X		X		
United Kingdom [3]	X					X		X	X							
Uruguay	X	X		X		X	X	X	X	X	X	X		X		
Uzbekistan	X	X	X	X		X	X	X	X	X		X	X			
Vanuatu	X	X		X		X	X	X	X	X		X		X		
Vatican City	X	X		X		X	X	X	X	X		X		X		
Venezuela	X	X		X		X	X	X	X	X	X	X		X		
Vietnam	X	X	X	X		X	X	X	X	X		X	X			
Western Sahara	X	X		X		X	X	X	X	X		X		X		
Yemen	X	X	X	X		X	X	X	X	X		X		X		
Zambia	X	X		X		X	X	X	X	X		X		X		
Zimbabwe	X	X		X		X	X	X	X	X		X		X		

[1] See § 746.1(b) for United Nations Security Council Sanctions under the EAR. See § 746.3 for United Nations Security Council-related license requirements for exports and reexports to Iraq or transfer within Iraq under the EAR, as well as regional stability licensing requirements not included in the Country Chart.

[2] See § 742.4(a) for special provisions that apply to exports and reexports to these countries of certain thermal imaging cameras.

[3] See § 742.6(a)(3) for special provisions that apply to military commodities that are subject to ECCN 0A919.

[4] See § 742.6(a)(2) and (4)(ii) regarding special provisions for exports and reexports of certain thermal imaging cameras to these countries.

[5] Refer to Switzerland for licensing requirements for Liechtenstein under the EAR.

[6] See § 746.5 for additional license requirements under the Russian Industry Sector Sanctions for ECCNs 0A998, 1C992, 3A229, 3A231, 3A232, 6A991, 8A992, and 8D999.

[7] See § 758.1(b)(9) for an AES filing requirement for exports of CC column 1 or 3, or RS column 2 items to India. Also note that a license is still required for items controlled under ECCNs 6A003.b.4.b and 9A515.e for RS column 2 reasons when destined to India.

[8] See § 746.6 for additional license requirements for export and reexports to the Crimea region of Ukraine and transfers (in-country) within the Crimea region of Ukraine for all items subject to the EAR, other than food and medicine designated as EAR99 and certain EAR99 or ECCN 5D992.c software for Internet-based communications. The Crimea region of Ukraine includes the land territory in that region as well as any maritime area over which sovereignty, sovereign rights, or jurisdiction is claimed based on purported annexation of that land territory.

[64 FR 17970, Apr. 13, 1999]

EDITORIAL NOTE: For FEDERAL REGISTER citations affecting supplement no. 1 to part 738, see the List of CFR Sections Affected, which appears in the Finding Aids section of the printed volume and at *www.fdsys.gov*.

PART 740—LICENSE EXCEPTIONS

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SUPPLEMENT NO. 3 TO PART 740—LICENSE EXCEPTION ENC FAVORABLE TREATMENT COUNTRIES

AUTHORITY: 50 U.S.C. 4601 *et seq.;* 50 U.S.C. 1701 *et seq.;* 22 U.S.C. 7201 *et seq.;* E.O. 13026, 61 FR 58767, 3 CFR, 1996 Comp., p. 228; E.O. 13222, 66 FR 44025, 3 CFR, 2001 Comp., p. 783; Notice of August 4, 2016, 81 FR 52587 (August 8, 2016).

§ 740.1 Introduction.

In this part, references to the EAR are references to 15 CFR chapter VII, subchapter C.

(a) *Scope.* A ''License Exception'' is an authorization contained in this part that allows you to export or reexport under stated conditions, items subject to the Export Administration Regulations (EAR) that would otherwise require a license under General Prohibition One, Two, Three, or Eight, as indicated under one or more of the Export Control Classification Numbers (ECCNs) in the Commerce Control List (CCL) in supplement no. 1 to part 774 of the EAR and items subject to the EAR that would require a license based on the embargo policies described in part 746 of the EAR. If your export or reexport is subject to General Prohibition Six for embargoed destinations, refer to part 746 of the EAR to determine the availability of any License Exceptions. Special commodity controls apply to short supply items. License Exceptions for items listed on the CCL as controlled for Short Supply reasons are found in part 754 of the EAR. If your export or reexport is subject to General Prohibition Five, consult part 744 of the EAR. If your export or reexport is subject to General Prohibitions Four, Seven, Nine, or Ten, then no License Exceptions apply. Any license exception authorizing reexports also authorizes in-country transfers, provided the terms and conditions for reexports under that license exception are met.

(b) *Certification.* By using any of the License Exceptions you are certifying that the terms, provisions, and conditions for the use of the License Exception described in the EAR have been met. Please refer to part 758 of the EAR for clearance of shipments and documenting the use of License Exceptions.

(c) *License Exception symbols.* Each License Exception bears a three letter symbol that will be used for export clearance purposes (see paragraph (d) of this section).

(d) *Electronic Export Information (EEI) filing.* You must enter on any required EEI filing the correct License Code that corresponds to the appropriate license exception symbol (e.g., LVS, GBS, CIV) and the correct Export Control Classification Number (ECCN) (e.g., 4A003, 5A002) for all exports of items under a license exception. Items temporarily in the United States meeting the provisions of License Exception TMP, under § 740.9(b)(3), are excepted from this requirement. See § 758.1 of the

EAR and 15 CFR part 30 of the FTR for EEI requirements.

(e) *Destination Control Statement*. You may be required to enter an appropriate Destination Control Statement on commercial documents in accordance with Destination Control Statement requirements of § 758.6 of the EAR.

(f) *Recordkeeping*. Records of transactions involving exports under any of the License Exceptions must be maintained in accordance with the recordkeeping requirements of part 762 of the EAR.

[61 FR 12768, Mar. 25, 1996, as amended at 61 FR 64274, Dec. 4, 1996; 62 FR 25457, May 9, 1997; 65 FR 42568, July 10, 2000; 66 FR 36680, July 12, 2001; 66 FR 42109, Aug. 10, 2001; 68 FR 50472, Aug. 21, 2003; 78 FR 22708, Apr. 16, 2013; 79 FR 4615, Jan. 29, 2014]

§ 740.2 Restrictions on all License Exceptions.

(a) You may not use *any* License Exception if *any* one or more of the following apply:

(1) Your authorization to use a License Exception has been suspended or revoked, or your intended export does not qualify for a License Exception.

(2) The export or reexport is subject to one of the ten General Prohibitions, is not eligible for a License Exception, and has not been authorized by BIS.

(3) The item is primarily useful for surreptitious interception of wire, oral, or electronic communications, or related software, controlled under ECCNs 5A001.f.1, 5A980, 5D001 (for 5A001.f.1 or for 5E001.a (for 5A001.f.1, or for 5D001.a (for 5A001.f.1))), or 5D980, unless the item is consigned to and for the official use of an agency of the U.S. Government (see § 740.11(b)(2)(ii) of this part, Governments (GOV)). No license exceptions apply for 5E001.a (for 5A001.f.1, or for 5D001.a (for 5A001.f.1)) or for 5E980.

(4) The item being exported or reexported is subject to the license requirements described in § 742.7 of the EAR and the export or reexport is not:

(i) Being made to Australia, India, Japan, New Zealand, or a NATO (North Atlantic Treaty Organization) member state (see NATO membership listing in § 772.1 of the EAR):

(ii) Authorized by § 740.11(b)(2)(ii) (official use by personnel and agencies of the U.S. government);

(iii) Authorized by § 740.14(e) of the EAR (certain shotguns and shotgun shells for personal use); or

(iv) Authorized by § 740.20 of the EAR (License Exception STA).

(5)(i) The item is controlled for missile technology (MT) reasons, except that the items described in ECCNs 6A008, 7A001, 7A002, 7A004, 7A101, 7A102, 7A103, 7A104, 7A105, 7B001, 7D001, 7D002, 7D003, 7D101, 7D102, 7E003, 7E101 or 9A515, may be exported as part of a spacecraft, manned aircraft, land vehicle or marine vehicle or in quantities appropriate for replacement parts for such applications under § 740.9(a)(4) (License Exception TMP for kits consisting of replacement parts), § 740.10 (License Exception RPL), § 740.13 (License Exception TSU), or § 740.15(b) (License Exception AVS for equipment and spare parts for permanent use on a vessel, aircraft or spacecraft).

(ii) MT controlled commodities described in ECCNs 2A001 or 2A101 may be exported or reexported under § 740.9(a)(4) (License Exception TMP) or § 740.10 (License Exception RPL) as one-for-one replacement for equipment previously legally exported or reexported.

(6) The export or reexport is to a sanctioned destination (Cuba, Iran, North Korea, Syria, and Crimea region of Ukraine) or a license is required based on a limited sanction (Russia) unless a license exception or portion thereof is specifically listed in the license exceptions paragraph pertaining to a particular sanctioned country in part 746 of the EAR.

(7) With the exception of License Exception GOV (§ 740.11(b)(2)), license exceptions are not available for the following 6E001 or 6E002 technology:

(i) Technology required for the ''development'' or ''production'' of photon detector, microbolometer detector, pyroelectric, or multispectral detector, infrared focal plane arrays (IRFPAs), described in ECCN 6A002, having a peak response within the wavelength range exceeding 900 nm but not exceeding 30,000 nm, excluding lead sulfide or lead selenide IRFPAs having a peak response within the wavelength range exceeding 1,000 nm but not exceeding

5,000 nm and not exceeding 16 detector elements; or

(ii) Technology required for the ''development'' or ''production'' of third generation or greater (*e.g.*, Electron Bombarded Active Pixel Sensor (EBAPS)) image intensifier tubes described in ECCN 6A002.

(8) The item is controlled under ECCNs 2A983, 2A984, 2D983, 2D984, 2E983 or 2E984 and the License Exception is other than:

(i) RPL, under the provisions of § 740.10, including § 740.10(a)(3)(v), which prohibits exports and reexports of replacement parts to countries in Country Group E:1 (see Supplement 1 to part 740));

(ii) GOV, restricted to eligibility under the provisions of § 740.11(b)(2)(ii); or

(iii) TSU, under the provisions of § 740.13(a) and (c).

(9) [Reserved]

(10) The commodity being exported or reexported is subject to the license requirements of § 742.11 of the EAR.

(11) The item is a ''military commodity'' subject to ECCN 0A919, except that such military commodities may be reexported in accordance with § 740.11(b)(2)(ii) (official use by personnel and agencies of the U.S. Government).

(12) The item is described in a 9x515 or ''600 series'' ECCN and is destined to, shipped from, or was manufactured in a destination listed in Country Group D:5 (see supplement no. 1 to part 740 of the EAR), except that:

(i) 9x515 or ''600 series'' items destined to, or in, Country Group D:5 are eligible for License Exception GOV (§ 740.11(b)(2) of the EAR); and

(ii) 1A613.c or .d items destined to, or in, Country Group D:5 are eligible for License Exception TMP (§ 740.9(a)(11) of the EAR) or License Exception BAG (§ 740.14(h)(2) of the EAR).

(13) ''600 series'' items that are controlled for missile technology (MT) reasons may not be exported, reexported, or transferred (in-country) under License Exception STA (§ 740.20 of the EAR). Items controlled under ECCNs 9D610.b, 9D619.b, 9E610.b, or 9E619.b or .c are not eligible for license exceptions except for License Exception GOV (§ 740.11(b)(2) of the EAR). Only the following license exceptions may be used to export ''600 series'' items to destinations other than those identified in Country Group D:5 (see supplement no. 1 to part 740 of the EAR):

(i) License Exception LVS (§ 740.3 of the EAR);

(ii) License Exception TMP (§ 740.9 of the EAR);

(iii) License Exception RPL (§ 740.10 of the EAR);

(iv) License Exception TSU (§ 740.13(a), (b), (f) and (g) of the EAR);

(v) License Exception GOV (§ 740.11(b) or (c) of the EAR);

(vi) License Exception BAG (§ 740.14); and

(vii) License Exception STA under § 740.20(c)(1) of the EAR, provided all of the applicable terms and conditions, including those specific to the ''600 series'' are met.

(14) Items classified under ECCNs 0A521, 0B521, 0C521, 0D521 and 0E521 may only be authorized by License Exception GOV (§ 740.11(b)(2)(ii)) or an item-specific license exception identified in supplement no. 5 to part 774 for a particular ECCN 0Y521 item.

NOTE TO PARAGRAPH (a)(14): Item-specific license exception availability is specific to each ECCN 0Y521 entry in supplement no. 5 to part 774 and may not be used for any other ECCN 0Y521 entries in the supplement. The U.S. Government makes a determination at the time items are classified under ECCNs 0A521, 0B521, 0C521, 0D521 and 0E521 regarding whether any license exceptions will be available, in addition to License Exception GOV (§ 740.11(b)(2)(ii)).

(15) If they are sold under a contract that includes $14,000,000 or more of ''600 Series Major Defense Equipment'' (as defined in § 772.1), exports of ''600 series'' items to a country not listed in Country Group A:5 (see supplement no. 1 to part 740 of the EAR), are not eligible for any license exception except to U.S. Government end users under License Exception GOV (§ 740.11(b) of the EAR).

(16) If they are sold under a contract that includes $25,000,000 or more of ''600 Series Major Defense Equipment'' (as defined in § 772.1), exports of ''600 series'' items to a country listed in Country Group A:5 (see supplement no. 1 to part 740 of the EAR), are not eligible for any license exception except to U.S.

Government end users under License Exception GOV (§ 740.11(b) of the EAR).

(17) A party to the transaction, as described in § 748.5 of the EAR, is listed on the Unverified List in supplement no. 6 to part 744, see § 744.15 of the EAR.

(18) 9x515 items that are controlled for missile technology (MT) reasons may not be exported, reexported, or transferred (in-country) under License Exception STA (§ 740.20 of the EAR).

NOTE TO PARAGRAPH (a): Items subject to the exclusive export control jurisdiction of another agency of the U.S. Government may not be authorized by a license exception or any other authorization under the EAR. If your item is subject to the exclusive jurisdiction of another agency of the U.S. Government, you must determine your export licensing requirements pursuant to the other agency's regulations. See § 734.3(b) and supplement no. 3 to part 730 of the EAR for other U.S. Government departments and agencies with export control responsibilities.

(b) All License Exceptions are subject to revision, suspension, or revocation, in whole or in part, without notice. It may be necessary for BIS to stop a shipment or an export transaction at any stage of its progress, e.g., in order to prevent an unauthorized export or reexport. If a shipment is already en route, it may be further necessary to order the return or unloading of the shipment at any port of call.

(c) BIS may by informing the exporter, suspend or revoke any License Exception in order to comply with U.S. Wassenaar obligations. In addition, BIS may inform an exporter, that before using any License Exception, a notice be submitted with BIS concerning the proposed export.

(d) See § 746.3 for restrictions on certain transfers within Iraq of items exported or reexported to Iraq pursuant to a License Exception.

[61 FR 12768, Mar. 25, 1996]

EDITORIAL NOTE: For FEDERAL REGISTER citations affecting § 740.2, see the List of CFR Sections Affected, which appears in the Finding Aids section of the printed volume and at *www.fdsys.gov*.

§ 740.3 Shipments of limited value (LVS).

(a) *Scope*. License Exception LVS authorizes the export and reexport in a single shipment of eligible commodities as identified by ''LVS - $(value limit)'' on the CCL.

(b) *Eligible destinations*. This License Exception is available for all destinations in Country Group B (see supplement no. 1 to part 740), provided that the net value of the commodities included in the same order and controlled under the same ECCN entry on the CCL does not exceed the amount specified in the LVS paragraph for that entry.

(c) *Definitions*—(1) *Order*. The term *order* as used in this § 740.3 means a communication from a person in a foreign country, or that person's representative, expressing an intent to import commodities from the exporter. Although all of the details of the order need not be finally determined at the time of export, terms relating to the kinds and quantities of the commodities to be exported, as well as the selling prices of these commodities, must be finalized before the goods can be exported under License Exception LVS.

(2) *Net value: for LVS shipments*. The actual selling price of the commodities that are included in the same order and are controlled under the same entry on the CCL, less shipping charges, or the current market price of the commodities to the same type of purchaser in the United States, whichever is the larger. In determining the actual selling price or the current market price of the commodity, the value of containers in which the commodity is being exported may be excluded. The value for LVS purposes is that of the controlled commodity that is being exported, and may not be reduced by subtracting the value of any content that would not, if shipped separately, be subject to licensing. Where the total value of the containers and their contents must be shown on Shipper's Export Declarations under one Schedule B Number, the exporter, in effecting a shipment under this License Exception, must indicate the ''net value'' of the contained commodity immediately below the description of the commodity.

(3) *Single shipment*. All commodities moving at the same time from one exporter to one consignee or intermediate consignee on the same exporting carrier even though these commodities will be forwarded to one or more ultimate consignees. Commodities

being transported in this manner will be treated as a single shipment even if the commodities represent more than one order or are in separate containers.

(d) *Additional eligibility requirements and restrictions*—(1) *Eligible orders*. To be eligible for this License Exception, orders must meet the following criteria:

(i) *Orders must not exceed the applicable ''LVS'' dollar value limits*. An order is eligible for shipment under LVS when the ''net value'' of the commodities controlled under the same entry on the CCL does not exceed the amount specified in the ''LVS'' paragraph for that entry. An LVS shipment may include more than one eligible order.

(ii) *Orders may not be split to meet the applicable LVS dollar limits*. An order that exceeds the applicable LVS dollar value limit may not be misrepresented as two or more orders, or split among two or more shipments, to give the appearance of meeting the applicable LVS dollar value limit. However an order that meets all the LVS eligibility requirements, including the applicable LVS dollar value limit, may be split among two or more shipments.

(iii) *Orders must be legitimate*. Exporters and consignees may not, either collectively or individually, structure or adjust orders to meet the applicable LVS dollar value limits.

(2) *Restriction on annual value of LVS orders*. The total value of exports per calendar year to the same ultimate or intermediate consignee of commodities classified under a single ECCN may not exceed 12 times the LVS value limit for that ECCN; however, there is no restriction on the number of shipments provided that value is not exceeded. This annual value limit applies to shipments to the same ultimate consignee even though the shipments are made through more than one intermediate consignee. There is no restriction on the number of orders that may be included in a shipment, except that the annual value limit per ECCN must not be exceeded.

(3) *Orders where two or more LVS dollar value limits apply*. An order may include commodities that are controlled under more than one entry on the CCL. In this case, the net value of the entire order may exceed the LVS dollar value for any single entry on the CCL. However, the net value of the commodities controlled under each ECCN entry shall not exceed the LVS dollar value limit specified for that entry.

Example to paragraph (d)(3): An order includes commodities valued at $8,000. The order consists of commodities controlled under two ECCN entries, each having an LVS value limit of $5000. Commodities in the order controlled under one ECCN are valued at $3,500 while those controlled under the other ECCN are valued at $4,500. Since the net value of the commodities controlled under each entry falls within the LVS dollar value limits applicable to that entry, the order may be shipped under this License Exception.

(4) *Prohibition against evasion of license requirements*. Any activity involving the use of this License Exception to evade license requirements is prohibited. Such devices include, but are not limited to, the splitting or structuring of orders to meet applicable LVS dollar value limits, as prohibited by paragraphs (d)(1) (ii) and (iii) of this section.

(5) *Exports and reexports of encryption components or spare parts*. For components or spare parts controlled for ''EI'' reasons under ECCN 5A002, exports and reexports under this License Exception must be destined to support a commodity previously authorized for export or reexport.

(e) *Reexports*. Commodities may be reexported under this License Exception, provided that they could be exported from the United States to the new country of destination under LVS.

(f) *Reporting requirements*. *See* § 743.1 of the EAR for reporting requirements for exports of certain commodities under License Exception LVS.

[61 FR 64274, Dec. 4, 1996, as amended at 63 FR 2456, Jan. 15, 1998; 63 FR 50520, Sept. 22, 1998; 73 FR 57504, Oct. 3, 2008]

§ 740.4 Shipments to Country Group B countries (GBS).

License Exception GBS authorizes exports and reexports to Country Group B (see supplement no. 1 to part 740) of those commodities where the Commerce Country Chart (supplement no. 1 to part 738 of the EAR) indicates a license requirement to the ultimate destination for national security reasons only and identified by ''GBS—

Yes'' on the CCL. See § 743.1 of the EAR for reporting requirements for exports of certain commodities under License Exception GBS.

[63 FR 2456, Jan. 15, 1998, as amended at 69 FR 5690, Feb. 6, 2004]

§ 740.5 Civil end-users (CIV).

(a) *Scope*. License Exception CIV authorizes exports and reexports of items on the Commerce Control List (CCL) (supplement no. 1 to part 774 of the EAR) that have a license requirement to the ultimate destination pursuant to the Commerce Country Chart (supplement no. 1 to part 738 of the EAR) for NS reasons only; and identified by ''CIV—Yes'' in the License Exception section of the Export Control Classification Number (ECCN), provided the items are destined to civil end-users for civil end-uses in Country Group D:1, except North Korea (supplement no. 1 to part 740 of this part).

(b) *Restrictions*—(1) *Restricted end-users and end-uses*. You may not use CIV if you ''know'' the item will be or is intended to be exported, reexported, or transferred (in-country) to military uses or military end-users. Such exports, reexports, and transfers (in-country) will continue to require a license. In addition to conventional military activities, military uses include any proliferation activities described and prohibited by part 744 of the EAR.

(2) *Visa status*. Deemed exports under License Exception CIV are not authorized to foreign nationals in an expired visa status. It is the responsibility of the exporter to ensure that, in the case of deemed exports, the foreign national maintains a valid U.S. visa, if required to hold a visa from the United States.

(c) *Reporting requirement*. See § 743.1 of the EAR for reporting requirements for exports of certain items under this License Exception.

[69 FR 64493, Nov. 5, 2004, as amended at 73 FR 68324, Nov. 18, 2008; 75 FR 31680, June 4, 2010; 81 FR 64669, Sept. 20, 2016]

§ 740.6 Technology and software under restriction (TSR).

(a) *Scope*. License Exception TSR permits exports and reexports of technology and software where the Commerce Country Chart (supplement no. 1 to part 738 of the EAR) indicates a license requirement to the ultimate destination for national security reasons only and identified by ''TSR—Yes'' in entries on the CCL, provided the software or technology is destined to Country Group B. (See supplement no. 1 to part 740.) A written assurance is required from the consignee before exporting or reexporting under this License Exception.

(1) *Required assurance for export of technology*. You may not export or reexport technology under this License Exception until you have received from the importer a written assurance that, without a BIS license or License Exception, the importer will not:

(i) Reexport or release the technology to a national of a country in Country Groups D:1, E:1, or E:2; or

(ii) Export to Country Groups D:1, E:1, or E:2 the direct product of the technology, if such foreign produced direct product is subject to national security controls as identified on the CCL (See General Prohibition Three, § 736.2(b)(3) of the EAR); or

(iii) If the direct product of the technology is a complete plant or any major components of a plant, export to Country Groups D:1, E:1, or E:2 of the direct product of the plant or major components thereof, if such foreign produced direct product is subject to national security controls as identified on the CCL or is ''subject to the ITAR'' (see 22 CFR parts 120 through 130).

(2) *Required assurance for export of software*. You may not export or reexport software under this License Exception until you have received from the importer a written assurance that, without a BIS license or License Exception, the importer will neither:

(i) Reexport or release the software or the source code for the software to a national of a country in Country Groups D:1, E:1, or E:2; nor

(ii) Export to Country Groups D:1, E:1, or E:2 the direct product of the software, if such foreign produced direct product is subject to national security controls as identified on the CCL. (See General Prohibition Three, § 736.2(b)(3) of the EAR).

(3) *Form of written assurance*. The required assurance may be made in the form of a letter or any other written

communication from the importer, including communications via facsimile, or the assurance may be incorporated into a licensing agreement that specifically includes the assurances. An assurance included in a licensing agreement is acceptable only if the agreement specifies that the assurance will be honored even after the expiration date of the licensing agreement. If such a written assurance is not received, License Exception TSR is not applicable and a license is required. The license application must include a statement explaining why assurances could not be obtained.

(4) *Other License Exceptions*. The requirements in this License Exception do not apply to the export of technology or software under other License Exceptions, or to the export of technology or software included in an application for the foreign filing of a patent, provided the filing is in accordance with the regulations of the U.S. Patent Office.

(b) *Reporting requirements*. See § 743.1 of the EAR for reporting requirements for exports of certain items under License Exception TSR. Note that reports are not required for release of technology or source code subject to the EAR to foreign nationals in the U.S. under the provisions of License Exception TSR.

[61 FR 64275, Dec. 4, 1996, as amended at 63 FR 50520, Sept. 22, 1998; 63 FR 55019, Oct. 14, 1998; 69 FR 5690, Feb. 6, 2004; 75 FR 44890, July 30, 2010; 78 FR 61901, Oct. 4, 2013; 80 FR 43318, July 22, 2015]

§ 740.7 Computers (APP).

(a) *Scope*—(1) *Commodities*. License Exception APP authorizes exports, reexports and transfers (in-country) of computers, including ''electronic assemblies'' and specially designed components therefor controlled by ECCN 4A003 exported or reexported separately or as part of a system for consumption in Computer Tier countries as provided by this section. When evaluating your computer to determine License Exception APP eligibility, use the APP parameter to the exclusion of other technical parameters in ECCN 4A003.

(2) *Technology and software*. License Exception APP authorizes exports of technology and software controlled by ECCNs 4D001 and 4E001 specially designed or modified for the ''development,'' ''production,'' or ''use'' of computers, including ''electronic assemblies'' and specially designed components therefor classified in ECCN 4A003 to Computer Tier countries as provided by this section.

(b) *Restrictions*. (1) Related equipment controlled under ECCN 4A003.g may not be exported or reexported under this License Exception when exported or reexported separately from eligible computers authorized under this License Exception.

(2) *Access and release restrictions*. (i) [Reserved]

(ii) *Technology and source code*. Technology and source code eligible for License Exception APP may not be released to nationals of Cuba, Iran, North Korea, Sudan, or Syria.

(3) Computers and software eligible for License Exception APP may not be reexported or transferred (in country) without prior authorization from BIS, *i.e.*, a license, a permissive reexport, another License Exception, or ''No License Required''. This restriction must be conveyed to the consignee, via the Destination Control Statement, see § 758.6 of the EAR. Additionally, the end-use and end-user restrictions in paragraph (b)(5) of this section must be conveyed to any consignee in Computer Tier 3.

(4) You may not use this License Exception to export or reexport items that you know will be used to enhance the APP beyond the eligibility limit allowed to your country of destination.

(5) License Exception APP does not authorize exports, reexports and transfers (in-country) for nuclear, chemical, biological, or missile end-users and end-uses subject to license requirements under § 744.2, § 744.3, § 744.4, and § 744.5 of the EAR. Such exports, reexports and transfers (in-country) will continue to require a license and will be considered on a case-by-case basis. Reexports and transfers (in-country) to these end-users and end-uses in eligible countries are strictly prohibited without prior authorization.

(6) Foreign nationals in an expired visa status are not eligible to receive deemed exports of technology or source

code under this License Exception. It is the responsibility of the exporter to ensure that, in the case of deemed exports, the foreign national maintains a valid U.S. visa, if required to hold a visa from the United States.

(c) *Computer Tier 1 destinations*—(1) *Eligible destinations*. The destinations that are eligible to receive exports and reexports under paragraph (c) of this section include: Albania, Antigua and Barbuda, Argentina, Aruba, Australia, Austria, Bahamas (The), Bangladesh, Barbados, Belgium, Belize, Benin, Bhutan, Bolivia, Botswana, Brazil, Brunei, Bulgaria, Burkina Faso, Burundi, Cameroon, Cape Verde, Central African Republic, Chad, Chile, Colombia, Congo (Democratic Republic of the), Congo (Republic of the), Costa Rica, Cote d'Ivoire, Croatia, Curaçao, Cyprus, Czech Republic, Denmark, Dominica, Dominican Republic, Ecuador, El Salvador, Equatorial Guinea, Eritrea, Estonia, Ethiopia, Fiji, Finland, France, Gabon, Gambia (The), Germany, Ghana, Greece, Grenada, Guatemala, Guinea, Guinea-Bissau, Guyana, Haiti, Honduras, Hong Kong, Hungary, Iceland, Indonesia, Ireland, Italy, Jamaica, Japan, Kenya, Kiribati, Korea (Republic of), Latvia, Lesotho, Liberia, Lithuania, Luxembourg, Madagascar, Malawi, Malaysia, Maldives, Mali, Malta, Marshall Islands, Mauritius, Mexico, Micronesia (Federated States of), Monaco, Mozambique, Namibia, Nauru, Nepal, Netherlands, New Zealand, Nicaragua, Niger, Nigeria, Norway, Palau, Panama, Papua New Guinea, Paraguay, Peru, Philippines, Poland, Portugal, Romania, Rwanda, St. Kitts & Nevis, St. Lucia, St. Vincent and the Grenadines, Sao Tome & Principe, Samoa, San Marino, Senegal, Seychelles, Sierra Leone, Singapore, Sint Maarten (the Dutch two-fifths of the island of Saint Martin), Slovakia, Slovenia, Solomon Islands, Somalia, South Africa, Spain, Sri Lanka, Surinam, Swaziland, Sweden, Switzerland, Taiwan, Tanzania, Togo, Tonga, Thailand, Timor–Leste, Trinidad and Tobago, Turkey, Tuvalu, Uganda, United Kingdom, Uruguay, Vatican City, Venezuela, Western Sahara, Zambia, and Zimbabwe.

(2) *Eligible commodities*. All computers, including electronic assemblies and specially designed components therefore are eligible for export or reexport under License Exception APP to Tier 1 destinations, subject to the restrictions in paragraph (b) of this section.

(3) *Eligible technology and software*. (i) Technology and software described in paragraph (a)(2) of this section for computers of unlimited APP are eligible for export, reexport, transfer (in-country) under License Exception APP to countries listed in Country Group A:5, see supplement no. 1 to this part; and

(ii) ''Development'' and ''production'' technology and source code described in paragraph (a)(2) of this section for computers with a APP less than or equal to 40 Weighted TeraFLOPS (WT) are eligible for deemed exports under License Exception APP to foreign nationals of Tier 1 destinations, other than the destinations that are listed in paragraph (c)(3)(i) of this section, subject to the restrictions in paragraph (b) of this section.

(iii) ''Use'' technology and source code described in paragraph (a)(2) of this section for computers with a APP less than or equal to 200 WT are eligible for deemed exports under License Exception APP to foreign nationals of Tier 1 destinations, other than the destinations that are listed in paragraph (c)(3)(i) of this section, subject to the restrictions in paragraph (b) of this section.

(d) *Computer Tier 3 destinations*—(1) *Eligible destinations*. Eligible destinations under paragraph (d) of this section are: Afghanistan, Algeria, Andorra, Angola, Armenia, Azerbaijan, Bahrain, Belarus, Bosnia & Herzegovina, Burma, Cambodia, China (People's Republic of), Comoros, Djibouti, Egypt, Georgia, India, Iraq, Israel, Jordan, Kazakhstan, Kosovo, Kuwait, Kyrgyzstan, Laos, Lebanon, Libya, Macau, Macedonia (The Former Yugoslav Republic of), Mauritania, Moldova, Mongolia, Montenegro, Morocco, Oman, Pakistan, Qatar, Russia, Saudi Arabia, Serbia, Tajikistan, Tunisia, Turkmenistan, Ukraine, United Arab Emirates, Uzbekistan, Vanuatu, Vietnam, and Yemen.

(2) *Eligible commodities*. None.

(3) *Eligible technology and source code*. (i) ''Development'' and ''production''

technology and source code described in paragraph (a)(2) of this section for computers with an APP less than or equal to 16 Weighted TeraFLOPs (WT) are eligible for deemed exports under License Exception APP to foreign nationals of Tier 3 destinations as described in paragraph (d)(1) of this section, subject to the restrictions in paragraph (b) of this section.

(ii) ''Use'' technology and source code described in paragraph (a)(2) of this section for computers with an APP less than or equal to 32 WT are eligible for deemed exports under License Exception APP to foreign nationals of Tier 3 destinations as described in paragraph (d)(1) of this section, subject to the restrictions in paragraph (b) of this section.

(e) *Reporting requirements.* See § 743.1 of the EAR for reporting requirements of certain items under License Exception APP.

[71 FR 20883, Apr. 24, 2006, as amended at 71 FR 51717, Aug. 31, 2006; 71 FR 68439, Nov. 27, 2006; 72 FR 13441, Mar. 22, 2007; 72 FR 60249, Oct. 24, 2007; 73 FR 51218, Sept. 2, 2008; 73 FR 68324, Nov. 18, 2008; 75 FR 31680, June 4, 2010; 75 FR 36514, June 28, 2010; 76 FR 36988, June 24, 2011; 76 FR 54930, Sept. 6, 2011; 76 FR 70339, Nov. 14, 2011; 77 FR 39367, July 2, 2012; 81 FR 64669, Sept. 20, 2016]

§ 740.8 [Reserved]

§ 740.9 Temporary imports, exports, reexports, and transfers (in-country) (TMP).

This License Exception authorizes various temporary exports and reexports; exports and reexports of items temporarily in the United States; and exports and reexports of beta test software.

(a) *Temporary exports, reexports, and transfers (in-country).* License Exception TMP authorizes exports, reexports, and transfers (in-country) of items for temporary use abroad (including use in or above international waters) subject to the conditions specified in this paragraph (a). No item may be exported, reexported, or transferred (in-country) under this paragraph (a) if an order to acquire the item, such as a purchase order, has been received before shipment; with prior knowledge that the item will stay abroad beyond the terms of this License Exception; or when the item is for subsequent lease or rental abroad. The references to various countries and country groups in these TMP-specific provisions do not limit or amend the prohibitions in § 740.2 of the EAR on the use of license exceptions generally, such as for exports of 9x515 or ''600 series'' items to destinations in Country Group D:5.

(1) *Tools of trade.* Exports, reexports, or transfers (in-country) of commodities and software as tools of trade for use by the exporter or employees of the exporter may be made only to destinations other than Country Group E:1. The tools of trade must remain under the ''effective control'' of the exporter or the exporter's employee. Eligible items are usual and reasonable kinds and quantities of tools of trade for use in a lawful enterprise or undertaking of the exporter. Tools of trade include, but are not limited to, commodities and software as is necessary to commission or service items, provided that the commodity or software is appropriate for this purpose and that all items to be commissioned or serviced are of foreign origin, or if subject to the EAR, have been lawfully exported, reexported, or transferred. Tools of trade may accompany the individual departing from the United States or may be shipped unaccompanied within one month before the individual's departure from the United States, or at any time after departure. Software used as a tool of trade must be protected against unauthorized access. Examples of security precautions to help prevent unauthorized access include the following:

(i) Use of secure connections, such as Virtual Private Network connections, when accessing IT networks for activities that involve the transmission and use of the software authorized under this license exception;

(ii) Use of password systems on electronic devices that store the software authorized under this license exception; and

(iii) Use of personal firewalls on electronic devices that store the software authorized under this license exception.

(2) *Sudan.* Notwithstanding the exclusion of destinations in Country Group E:1 in paragraphs (a)(1) and (3) of this

section, items listed in § 740.19(b) of the EAR may be exported or reexported as tools of trade to Sudan. All other requirements and limitations of this paragraph (a) apply to such exports and reexports.

(3) ''Technology,'' regardless of media or format, may be exported, reexported, or transferred (in-country) by or to a U.S. person, or a foreign person employee of a U.S. person traveling or on temporary assignment abroad, subject to the following restrictions:

(i) Foreign persons may only export, reexport, transfer (in country) or receive such ''technology'' as they are authorized to receive through a license, license exception other than TMP or because no license is required.

(ii) ''Technology'' exported, reexported, or transferred under this authorization may only be possessed or used by a U.S. person or authorized foreign person. Sufficient security precautions must be taken to prevent the unauthorized release of the ''technology.'' Such security precautions may include encryption of the ''technology,'' the use of secure network connections, such as Virtual Private Networks, the use of passwords or other access restrictions on the electronic device or media on which the ''technology'' is stored, and the use of firewalls and other network security measures to prevent unauthorized access.

(iii) The individual is an employee of the U.S. Government or is directly employed by a U.S. person and not, *e.g.*, by a foreign subsidiary.

(iv) ''Technology'' authorized under this exception may not be used for foreign production purposes or for technical assistance unless authorized through a license or license exception other than TMP.

(4) *Kits consisting of replacement parts or components.* Kits consisting of replacement parts or components may be exported, reexported, or transferred (in-country) to all destinations except Country Group E:1 (see supplement no. 1 to part 740 of the EAR), provided that:

(i) The parts and components would qualify for shipment under paragraph (a)(4)(iii) of this section if exported as one-for-one replacements;

(ii) The kits remain under effective control of the exporter or an employee of the exporter; and

(iii) All parts and components in the kit are returned, except that one-for-one replacements may be made in accordance with the requirements of License Exception RPL and the defective parts and components returned (see Parts, Components, Accessories and Attachments in § 740.10(a) of this part).

(5) *Exhibition and demonstration.* This paragraph (a)(5) authorizes exports, reexports, and transfers (in-country) of commodities and software for exhibition or demonstration in all destinations except Country Group E:1 (see supplement no. 1 to this part) provided that the exporter maintains ownership of the commodities and software while they are abroad and provided that the exporter, an employee of the exporter, or the exporter's designated sales representative retains ''effective control'' over the commodities and software while they are abroad. The commodities and software may not be used when abroad for more than the minimum extent required for effective demonstration. The commodities and software may not be exhibited or demonstrated at any one site for longer than 120 days after installation and debugging, unless authorized by BIS. However, before or after an exhibition or demonstration, pending movement to another site, return to the United States or the foreign reexporter, or BIS approval for other disposition, the commodities and software may be placed in a bonded warehouse or a storage facility provided that the exporter retains ''effective control'' over their disposition. The export documentation for this type of transaction must show the exporter as ultimate consignee, in care of the person who will have control over the commodities and software abroad.

(6) *Inspection, test, calibration, and repair.* Commodities to be inspected, tested, calibrated, or repaired abroad may be exported, reexported, and transferred (in-country) under this paragraph (a)(6) to all destinations except Country Group E:1.

(7) *Containers.* Containers for which another license exception is not available and that are necessary for shipment of commodities may be exported, reexported, and transferred (in-country) under this paragraph (a)(7). However, this paragraph does not authorize the export of the container's contents, which, if not exempt from licensing, must be separately authorized for export under either a license exception or a license.

(8) *Assembly in Mexico.* Commodities may be exported to Mexico under Customs entries that require return to the United States after processing, assembly, or incorporation into end products by companies, factories, or facilities participating in Mexico's in-bond industrialization program (Maquiladora) under this paragraph (a)(8), provided that all resulting end-products (or the commodities themselves) are returned to the United States.

(9) *News media.* (i) Commodities necessary for news-gathering purposes (and software necessary to use such commodities) may be temporarily exported or reexported for accredited news media personnel (i.e., persons with credentials from a news-gathering or reporting firm) to Cuba, North Korea, Sudan, or Syria (see supplement no. 1 to part 740) if the commodities:

(A) Are retained under ''effective control'' of the exporting news-gathering firm in the country of destination;

(B) Remain in the physical possession of the news media personnel in the country of destination. The term physical possession for purposes of this paragraph (a)(9) means maintaining effective measures to prevent unauthorized access (e.g., securing equipment in locked facilities or hiring security guards to protect the equipment); and

(C) Are removed with the news media personnel at the end of the trip.

(ii) When exporting under this paragraph (a)(9) from the United States, the exporter must email a copy of the packing list or similar identification of the exported commodities, to *bis.compliance@bis.doc.gov* specifying the destination and estimated dates of departure and return. The Office of Export Enforcement (OEE) may check returns to assure that the provisions of this paragraph (a)(9) are being used properly.

(iii) Commodities or software necessary for news-gathering purposes that accompany news media personnel to all other destinations shall be exported, reexported, or transferred (in-country) under paragraph (a)(1), *tools of trade,* of this section if owned by the news gathering firm, or if they are personal property of the individual news media personnel. Note that paragraphs (a)(1), *tools of trade,* and (a)(9), *news media,* of this section do not preclude independent accredited contract personnel, who are under control of news-gathering firms while on assignment, from using these provisions, provided that the news gathering firm designates an employee of the contract firm to be responsible for the equipment.

(10) *Temporary exports to a U.S. person's foreign subsidiary, affiliate, or facility abroad.* Components, parts, tools, accessories, or test equipment exported by a U.S. person to a subsidiary, affiliate, or facility owned or controlled by the U.S. person, if the components, parts, tools, accessories, or test equipment are to be used to manufacture, assemble, test, produce, or modify items, provided that such components, parts, tools, accessories or test equipment are not transferred (in-country) or reexported from such subsidiary, affiliate, or facility, alone or incorporated into another item, without prior authorization by BIS.

(11) *Personal protective ''equipment'' classified under ECCN 1A613.c or .d and individual protection ''equipment'' classified under ECCN 1A607.f*—(i) *Temporary exports, reexports, or in-country transfers to countries not identified in Country Group D:5.* U.S. persons may temporarily export or reexport one set of body armor classified under ECCN 1A613.d (which may include one helmet classified under ECCN 1A613.c) or one set of chemical or biological agent protective gear classified under ECCN 1A607.f (which may include one additional filter canister classified under ECCN 1A607.x) to countries not identified in Country Group D:5, provided that:

(A) The items are with the U.S. person's baggage or effects, whether accompanied or unaccompanied (but not mailed); *and*

(B) The items are for that U.S. person's exclusive use and not for transfer of ownership unless reexported or transferred (in-country) to another U.S. person.

(ii) *Temporary exports, reexports, or transfers (in-country) to countries identified in Country Group D:5*—(A) *Iraq*. U.S. persons may temporarily export or reexport one set of body armor classified under ECCN 1A613.d (which may include one helmet classified under ECCN 1A613.c) or one set of chemical or biological agent protective gear classified under ECCN 1A607.f (which may include one additional filter canister classified under ECCN 1A607.x) to Iraq, for personal use, provided that the requirements in paragraph (a)(11)(i) of this section are met. In addition, the U.S. person must be affiliated with the U.S. Government and traveling on official business or traveling in support of a U.S. Government contract, or the U.S. person must be traveling to Iraq under a direct authorization by the Government of Iraq and engaging in activities for, on behalf of, or at the request of, the Government of Iraq. Documentation regarding direct authorization from the Government of Iraq shall include an English translation.

(B) *Other countries in Country Group D:5*. U.S. persons may temporarily export or reexport one set of body armor classified under ECCN 1A613.d (which may include one helmet classified under ECCN 1A613.c) or one set of chemical or biological agent protective gear classified under ECCN 1A607.f (which may include one additional filter canister classified under ECCN 1A607.x) to countries in Country Group D:5 (except Iraq), for personal use, provided that the requirements in paragraph (a)(11)(i) of this section are met, and the U.S. person is affiliated with the U.S. Government traveling on official business or is traveling in support of a U.S. Government contract.

(iii) Items exported, reexported, or transferred (in-country) under this paragraph (a)(11), if not consumed or destroyed in the normal course of authorized temporary use abroad, must be returned to the United States or other country from which the items were so transferred as soon as practicable but no later than four years after the date of export, reexport or transfer (in-country).

(12) *U.S. persons*. For purposes of this § 740.9, a U.S. person is defined as follows: an individual who is a citizen of the United States, an individual who is a lawful permanent resident as defined by 8 U.S.C. 1101(a)(2) or an individual who is a protected individual as defined by 8 U.S.C. 1324b(a)(3). U.S. person also means any juridical person organized under the laws of the United States, or any jurisdiction within the United States (e.g., corporation, business association, partnership, society, trust, or any other entity, organization or group that is authorized to do business in the United States).

(13) *Destinations*. Destination restrictions apply to temporary exports, reexports, or transfers (in-country) to and for use on any vessel, aircraft or territory under ownership, control, lease, or charter by any country specified in any authorizing paragraph of this section, or any national thereof.

(14) *Return or disposal of items*. With the exception of items described in paragraph (a)(11) of this section, all items exported, reexported, or transferred (in-country) under this section must, if not consumed or destroyed in the normal course of authorized temporary use abroad, be returned to the United States or other country from which the items were so transferred as soon as practicable but no later than one year after the date of export, reexport, or transfer (in-country). Items not returned shall be disposed of or retained in one of the following ways:

(i) *Permanent export, reexport, or transfer (in-country)*. An exporter or reexporter who wants to sell or otherwise dispose of the items abroad, except as permitted by this or other applicable provision of the EAR, must apply for a license in accordance with §§ 748.1, 748.4 and 748.6 of the EAR. (Part 748 of the EAR contains more information about license applications.) The application must be supported by any documents that would be required in support of an application for export license for shipment of the same items directly from

the United States to the proposed destination.

(ii) *Use of a license.* An outstanding license may also be used to dispose of items covered by the provisions of this paragraph (a), provided that the outstanding license authorizes direct shipment of the same items to the same new ultimate consignee or end-user.

(iii) *Authorization to retain item abroad beyond one year.* An exporter, reexporter or transferor who wants to retain an item at the temporary location beyond one year must apply for a license in accordance with §§748.1, 748.4 and 748.6 of the EAR to BIS at least 90 days prior to the expiration of the one-year period. The application must include the name and address of the exporter, the date the items were exported, a brief product description, and the justification for the extension. If BIS approves the extension, the applicant will receive authorization for an extension not to exceed four years from the date of initial export, reexport, or transfer. Any request for retaining the items abroad for a period exceeding four years must be made in accordance with the requirements of paragraph (a)(14)(i) of this section.

(b) *Exports of items temporarily in the United States*—(1) *Items moving in transit through the United States.* Subject to the following conditions, the provisions of this paragraph (b)(1) authorize export of items moving in transit through the United States under a Transportation and Exportation (T.&E.) customs entry or an Immediate Exportation (I.E.) customs entry made at a U.S. Customs and Border Protection Office.

(i) Items controlled for national security (NS) reasons, nuclear proliferation (NP) reasons, or chemical and biological weapons (CB) reasons may not be exported to Country Group D:1, D:2, or D:3 (see supplement no. 1 to part 740), respectively, under this paragraph (b)(1).

(ii) Items may not be exported to Country Group E:1 under this section.

(iii) The following may *not* be exported from the United States under this paragraph (b)(1):

(A) Commodities shipped to the United States under an International Import Certificate, Form BIS–645P;

(B) Chemicals controlled under ECCN 1C350; or

(C) Horses for export by sea (refer to short supply controls in part 754 of the EAR).

(iv) The authorization to export in paragraph (b)(1) shall apply to all shipments from Canada moving in transit through the United States to any foreign destination, regardless of the nature of the commodities or software or their origin, notwithstanding any other provision of this paragraph (b)(1).

(2) *Items imported for marketing, or for display at U.S. exhibitions or trade fairs.* Subject to the following conditions, the provisions of this paragraph (b)(2) authorize the export of items that were imported into the United States for marketing, or for display at an exhibition or trade fair *and* were either entered under bond or permitted temporary free import under bond providing for their export and are being exported in accordance with the terms of that bond.

(i) Items may be exported to the country from which imported into the United States. However, items originally imported from Cuba may not be exported unless the U.S. Government had licensed the import from that country.

(ii) Items may be exported to any destination other than the country from which imported except:

(A) Items imported into the United States under an International Import Certificate;

(B) Exports to Country Group E:1 (see supplement no. 1 to part 740); or

(C) Exports to Country Group D:1, D:2, or D:3 (see supplement no. 1 to part 740) of items controlled for national security (NS) reasons, nuclear nonproliferation (NP) reasons, or chemical and biological weapons (CB) reasons, respectively.

(3) *Return of foreign-origin items.* A foreign-origin item may be returned under this license exception to the country from which it was imported if its characteristics and capabilities have not been enhanced while in the United States, except that no foreign-origin items may be returned to Cuba.

(4) *Return of shipments refused entry.* Shipments of items refused entry by

the U.S. Customs and Border Protection, the Food and Drug Administration, or other U.S. Government agency may be returned to the country of origin, except to:

(i) A destination in Cuba; or

(ii) A destination from which the shipment has been refused entry because of the Foreign Assets Control Regulations of the Treasury Department, unless such return is licensed or otherwise authorized by the Treasury Department, Office of Foreign Assets Control (31 CFR parts 500–599).

NOTE 1 TO PARAGRAPH (b): A commodity withdrawn from a bonded warehouse in the United States under a 'withdrawal for export' customs entry is considered as 'moving in transit'. It is not considered as 'moving in transit' if it is withdrawn from a bonded warehouse under any other type of customs entry or if its transit has been broken for a processing operation, regardless of the type of customs entry.

NOTE 2 TO PARAGRAPH (b): Items shipped on board a vessel or aircraft and passing through the United States from one foreign country to another may be exported without a license provided that (a) while passing in transit through the United States, they have not been unladen from the vessel or aircraft on which they entered, and (b) they are not originally manifested to the United States.

NOTE 3 TO PARAGRAPH (b): A shipment originating in Canada or Mexico that incidentally transits the United States en route to a delivery point in the same country does not require a license.

(c) *Exports of beta test software*—(1) *Scope*. The provisions of this paragraph (c) authorize exports and reexports to eligible countries of beta test software intended for distribution to the general public.

(2) *Eligible countries*. Encryption software controlled under ECCN 5D002 is not eligible for export or reexport to a country in Country Group E:1 under the provisions of this paragraph (c). All other beta test software is eligible for export or reexport to all destinations, except Cuba, Iran, and Sudan under the provisions of this paragraph (c).

(3) *Eligible software*. All software that is controlled by the Commerce Control List (supplement no.1 to part 774 of the EAR), and under Commerce licensing jurisdiction, is eligible for export and reexport, subject to the restrictions of this paragraph (c). Encryption software controlled for ''EI'' reasons under ECCN 5D002 is eligible for export and reexport under this paragraph (c), provided that the exporter has submitted the information described in paragraph (c)(8) of this section by the time of export. Final encryption products produced by the testing consignee are subject to any applicable provisions in § 742.15(b) of the EAR (for mass market encryption commodities and software with symmetric key length exceeding 64-bits) or § 740.17 of the EAR (License Exception ENC), including review and reporting requirements.

(4) *Conditions for use*. Exports or reexports of beta test software programs under the provisions of this paragraph (c) must meet all of the following conditions:

(i) The software producer intends to market the software to the general public after completion of the beta testing, as described in the General Software Note (see supplement no. 2 to part 774 of the EAR) or the Cryptography Note in Category 5, Part 2 (''Information Security'') of the Commerce Control List (see supplement no.1 to part 774 of the EAR);

(ii) The software producer provides the software to the testing consignee free-of-charge or at a price that does not exceed the cost of reproduction and distribution; and

(iii) The software is designed for installation by the end-user without further substantial support from the supplier.

(5) *Importer Statement*. Prior to exporting or reexporting any eligible software under this paragraph (c), the exporter or reexporter must obtain the following statement from the testing consignee, which may be included in a contract, non-disclosure agreement, or other document that identifies the importer, the software to be exported, the country of destination, and the testing consignee.

''We certify that this beta test software will only be used for beta testing purposes, and will not be rented, leased, sold, sublicensed, assigned, or otherwise transferred. Further, we certify that we will not transfer or export any product, process, or service that is the direct product of the beta test software.''

(6) *Use limitations*. Only testing consignees that provide the importer

statement required by paragraph (c)(5) of this section may execute any beta test software that was exported or reexported to them under the provisions of this paragraph (c).

(7) *Return or disposal of software.* All beta test software exported must be destroyed abroad or returned to the exporter within 30 days of the end of the beta test period as defined by the software producer or, if the software producer does not define a test period, within 30 days of completion of the consignee's role in the test. Among other methods, this requirement may be satisfied by a software module that will destroy the software and all its copies at or before the end of the beta test period.

(8) *Notification of beta test encryption software.* For beta test encryption software eligible under this license exception you must, by the time of export or reexport, submit the information described in paragraphs (a) through (d) of supplement no. 6 to part 742 of the EAR by e-mail to BIS at *crypt@bis.doc.gov* and to the ENC Encryption Request Coordinator at *enc@nsa.gov*.

[61 FR 64277, Dec. 4, 1996. Redesignated at 61 FR 68579, Dec. 30, 1996]

EDITORIAL NOTE: For FEDERAL REGISTER citations affecting § 740.9, see the List of CFR Sections Affected, which appears in the Finding Aids section of the printed volume and at *www.fdsys.gov*.

EFFECTIVE DATE NOTE: At 81 FR 86573, Dec. 1, 2016, § 740.9 was amended by revising paragraph (a)(8) and the introductory text of paragraph (a)(14), effective Jan. 3, 2017. For the convenience of the user, the revised text is set forth as follows:

§ 740.9 Temporary imports, exports, reexports, and transfers (in-country) (TMP).

* * * * *

(a) * * *

(8) *Assembly in Mexico.* Commodities may be exported to Mexico under Customs entries that require return to the United States after processing, assembly, or incorporation into end products by companies, factories, or facilities participating in Mexico's in-bond industrialization program (IMMEX) under this paragraph (a)(8), provided that all resulting end-products (or the commodities themselves) are returned to the United States as soon as practicable but no later than four years after the date of export or reexport.

* * * * *

(14) *Return or disposal of items.* With the exception of items described in paragraphs (a)(8) and (11) of this section, all items exported, reexported, or transferred (in-country) under this section must, if not consumed or destroyed in the normal course of authorized temporary use abroad, be returned to the United States or other country from which the items were so transferred as soon as practicable but no later than one year after the date of export, reexport, or transfer (in-country). Items not returned shall be disposed of or retained in one of the following ways:

* * * * *

§ 740.10 License Exception Servicing and replacement of parts and equipment (RPL).

License Exception RPL authorizes exports and reexports associated with one-for-one replacement of parts, components, accessories, and attachments. License Exception RPL also authorizes exports and reexports of certain items currently ''subject to the EAR'' to or for, or to replace, a defense article described in an export or reexport authorization issued under the authority of the Arms Export Control Act. It does not, however, authorize the export or reexport of defense articles subject to the ITAR, i.e., described on the United States Munitions List (22 CFR 121.1).

(a) *Parts, components, accessories, and attachments*—(1) *Scope.* The provisions of this paragraph (a) authorize the export and reexport of one-for-one replacement parts, components, accessories, and attachments for previously exported equipment or other end items.

(2) *One-for-one replacement of parts, components, accessories, or attachments.* (i) The terms *replacement parts, components, accessories, or attachments* as used in this section mean parts, components, accessories, or attachments needed for the immediate repair of equipment or other end items, including replacement of defective or worn parts or components. (These terms include 'subassemblies,' but do not include test instruments or operating supplies. The term '*subassembly*' means

a number of parts or components assembled to perform a specific function or functions within a commodity. One example would be printed circuit boards with components mounted thereon. This definition does not include major subsystems such as those composed of a number of 'subassemblies.') Items that improve or change the basic design characteristics, e.g., as to accuracy, capability, performance or productivity, of the equipment or other end item upon which they are installed, are not deemed to be replacement parts, components, accessories, or attachments. For kits consisting of replacement parts or components, consult § 740.9(a)(4) of this part.

(ii) Parts, components, accessories, and attachments may be exported only to replace, on a one-for-one basis, parts, components, accessories, or attachments, respectively, contained in commodities that were: Lawfully exported from the United States; lawfully reexported; or made in a foreign country incorporating authorized parts, components, accessories, or attachments ''subject to the EAR'' (see § 734.2(a) of the EAR). ''600 series'' parts, components, accessories and attachments may be exported only to replace, on a one-for-one basis, parts, components, accessories, or attachments that were: lawfully exported from the United States, or lawfully reexported. The conditions of the original U.S. authorization must not have been violated. Accordingly, the export of replacement parts, components, accessories, and attachments may be made only by the party who originally exported or reexported the commodity to be repaired, or by a party that has confirmed the existence of appropriate authority for the original transaction.

(iii) The parts, components, accessories, or attachments to be replaced must either be destroyed abroad or returned promptly to the person who supplied the replacements, or to a foreign firm that is under the effective control of that person.

(3) *Exclusions to License Exception RPL.* (i) No replacement parts, components, accessories, or attachments may be exported to repair a commodity exported under a license or other authorization if that license or other authorization included a condition that any subsequent replacements may be exported only under a license.

(ii) No parts, components, accessories, or attachments may be exported to be held abroad as spares for future use. Replacements may be exported to replace spares that were authorized to accompany the export of equipment or other end items as those spares are used in the repair of the equipment or other end item. This allows maintenance of the stock of spares at a consistent level as the parts, components, accessories, or attachments are used.

(iii) No parts, components, accessories, or attachments may be exported to any destination, except the countries listed in supplement no. 3 to part 744 of the EAR (Countries Not Subject to Certain Nuclear End Use Restrictions in § 744.2(a)), if the item is to be incorporated into or used in nuclear weapons, nuclear explosive devices, nuclear testing related to activities described in § 744.2(a) of the EAR, the chemical processing of irradiated special nuclear or source material, the production of heavy water, the separation of isotopes of source and special nuclear materials, or the fabrication of nuclear reactor fuel containing plutonium, as described in § 744.2(a) of the EAR.

(iv) No replacement parts, components, accessories, or attachments may be exported to countries in Country Group E:1 (see supplement no. 1 to this part) (countries designated by the Secretary of State as supporting acts of international terrorism) if the commodity to be repaired is an ''aircraft'' (as defined in § 772.1 of the EAR) or is controlled for national security (NS) reasons.

(v) No replacement parts, components, accessories, or attachments may be exported to countries in Country Group E:1 (see supplement no. 1 to this part) if the commodity to be repaired is explosives detection equipment classified under ECCN 2A983 or related software classified under ECCN 2D983.

(vi) No replacement parts, components, accessories, or attachments may be exported to countries in Country Group E:1 (see supplement no. 1 to this part) if the commodity to be repaired is concealed object detection equipment

classified under ECCN 2A984 or related software classified under ECCN 2D984.

(vii) The conditions described in this paragraph (a)(3) relating to replacement of parts, components, accessories, or attachments do not apply to reexports to a foreign country of parts, components accessories, or attachments as replacements in foreign-origin products, if at the time the replacements are furnished, the foreign-origin product is eligible for export to such country under any of the license exceptions in this part or the exceptions in § 734.4 of the EAR (*De minimis* U.S. content).

(viii) ''Parts,'' ''components,'' ''accessories,'' and ''attachments'' classified in 9x515 or ''600 series'' ECCNs may not be exported or reexported to a destination listed in Country Group D:5 (see supplement no. 1 to this part).

(4) *Reexports.* (i) Parts, components, accessories, and attachments exported from the United States may be reexported to a new country of destination, provided that the conditions established in paragraphs (a)(2) and (3) of this section are met. A party reexporting one-for-one replacement parts, components, accessories, or attachments ''subject to the EAR'' shall ensure that the commodities being repaired were shipped to their present location in accordance with U.S. law and continue to be lawfully used, and that either before or promptly after reexport of the replacement parts, components, accessories, or attachments, the replaced commodities and software are either destroyed or returned to the United States, or to the foreign firm in Country Group B (see supplement no. 1 to this part) that shipped the replacement parts.

(ii) The conditions described in paragraph (a)(3) relating to replacement of ''parts,'' ''components,'' ''accessories,'' or ''attachments'' (excluding 9x515 and ''600 series'' ECCNs) do not apply to reexports to a foreign country of ''parts,'' ''components,'' ''accessories,'' or ''attachments'' as replacements in foreign-origin products, if at the time the replacements are furnished, the foreign-origin product is eligible for export to such country under any of the License Exceptions in this part or the foreign-origin product is not subject to the EAR pursuant to § 734.4.

(b) *Servicing and replacement*—(1) The provisions of this paragraph (b) authorize the export and reexport to any destination, except for 9x515 or ''600 series'' items to destinations identified in Country Group D:5 (see supplement no. 1 to this part) or otherwise prohibited under the EAR, of commodities and software that were sent to the United States or to a foreign party for servicing and replacement of commodities and software ''subject to the EAR'' (see § 734.2(a) of the EAR) that are defective or that an end user or ultimate consignee has found unacceptable.

(2) Commodities and software sent to a United States or foreign party for servicing.

(i) *Definition.* ''Servicing'' as used in this section means inspection, testing, calibration or repair, including overhaul and reconditioning. The servicing shall not have improved or changed the basic characteristics (e.g., the accuracy, capability, performance, or productivity) of the commodity or software as originally authorized for export or reexport.

(ii) *Return of serviced commodities and software.* When the serviced commodity or software is returned, it may include any replacement or rebuilt parts, components, accessories, or attachments necessary to its repair and may be accompanied by any spare parts, components, tools, accessories, attachments or other items sent with it for servicing.

(iii) *Commodities and software imported from Country Group D:1 except the People's Republic of China (PRC).* Commodities and software legally exported or reexported to a consignee in Country Group D:1 (except the People's Republic of China (PRC)) (see supplement no. 1 to this part) that are sent to the United States or a foreign party for servicing may be returned to the country from which it was sent, provided that both of the following conditions are met:

(A) The exporter making the shipment is the same person or firm to whom the original license was issued; and

(B) The end use and the end user of the serviced commodities or software and other particulars of the transaction, as set forth in the application and supporting documentation that formed the basis for issuance of the license have not changed.

(iv) *Terrorist supporting countries.* No repaired commodity or software may be exported or reexported to countries in Country Group E:1 (see supplement no. 1 to this part).

(3) Replacements for defective or unacceptable equipment ''subject to the EAR.''

(i) Subject to the following conditions, commodities or software may be exported or reexported to replace defective or otherwise unusable (e.g., erroneously supplied) items.

(A) The commodity or software is ''subject to the EAR'' (see § 734.2(a) of the EAR).

(B) The commodity or software to be replaced must have been previously exported or reexported in its present form under a license or authorization granted by BIS or an authorization, e.g., a license or exemption, issued under the authority of the Arms Export Control Act.

(C) No commodity or software may be exported or reexported to replace equipment that is worn out from normal use, nor may any commodity or software be exported to be held in stock abroad as spare equipment for future use.

(D) The replacement item may not improve the basic characteristic, e.g., as to accuracy, capability, performance, or productivity, of the equipment as originally authorized, e.g., under a license, license exception or an exemption, for export or reexport.

(E) No shipment may be made to countries in Country Group E:1 (see supplement no. 1 to this part), or to any other destination to replace defective or otherwise unusable equipment owned or controlled by, or leased or chartered to, a national of any of those countries.

(F) Commodities or ''software'' ''subject to the EAR'' and classified in 9x515 or ''600 Series'' ECCNs may not be exported or reexported to a destination identified in Country Group D:5 (see supplement no. 1 to this part).

(ii) In addition to the general conditions in paragraph (b)(3)(i) of this section, the following conditions apply to exports or reexports of replacements for defective or unacceptable commodities or software ''subject to the EAR'' (see § 734.2(a) of the EAR) to a destination in Country Group B or Country Group D:1 (see supplement no. 1 to this part):

(A) By making such an export or reexport, the exporter represents that all the requirements of this paragraph (b) have been met and undertakes to destroy or return the replaced parts as provided in paragraph (b)(3)(ii)(C) of this section.

(B) The defective or otherwise unusable equipment must be replaced free of charge, except for transportation and labor charges. If exporting to the countries listed in Country Group D:1 (except the PRC), the exporter shall replace the commodity or software within the warranty period or within 12 months of its shipment to the ultimate consignee in the country of destination, whichever is shorter.

(C) The commodity or software to be replaced must either be destroyed abroad or returned to the United States, or to a foreign firm in Country Group B that is under the effective control of the exporter, or to the foreign firm that is providing the replacement part or equipment. The destruction or return must be effected before, or promptly after, the replacement item is exported from the United States.

(D) A party reexporting replacements for defective or unacceptable U.S.-origin equipment must ensure that the commodities or software being replaced were shipped to their present location in accordance with U.S. law and continue to be legally used. See § 764.7 of the EAR for exports or reexports to the installed base in Libya.

(c) *Special recordkeeping requirements: ECCNs 2A983, 2A984, 2D983 and 2D984, and ''600 Series'' ECCNs.* (1) In addition to the other recordkeeping requirements set forth elsewhere in the EAR, exporters are required to maintain records, as specified in this section, for

any items exported or reexported pursuant to License Exception RPL to repair, replace, or service previously lawfully exported or reexported items classified under ECCNs 2A983, 2A984, 2D983 and 2D984 or a ''600 Series'' ECCN. The following information must be maintained for each such export or reexport transaction:

(i) A description of the item replaced, repaired or serviced;

(ii) The type of repair or service;

(iii) Certification of the destruction or return of item replaced;

(iv) Location of the item replaced, repaired or serviced;

(v) The name and address of those who received the items for replacement, repair, or service;

(vi) Quantity of items shipped; and

(vii) Country of ultimate destination.

(2) Records maintained pursuant to this section may be requested at any time by an appropriate BIS official as set forth in § 762.7 of the EAR. Records that must be included in the annual or semi-annual reports of exports and reexports of ''600 Series'' items under the authority of License Exception RPL are described in § 743.4 and § 762.2(b)(4), (b)(47) and (b)(48).

[78 FR 22712, Apr. 16, 2013, as amended at 78 FR 61901, Oct. 4, 2013; 79 FR 27435, May 13, 2014; 79 FR 32623, June 5, 2014; 79 FR 48661, Aug. 18, 2014]

§ 740.11 Governments, international organizations, international inspections under the Chemical Weapons Convention, and the International Space Station (GOV).

This License Exception authorizes exports and reexports for international nuclear safeguards; U.S. government agencies or personnel; agencies of cooperating governments; international inspections under the Chemical Weapons Convention; and the International Space Station.

(a) *International safeguards*—(1) *Scope.* The International Atomic Energy Agency (IAEA) is an international organization that establishes and administers safeguards, including Additional Protocols, designed to ensure that special nuclear materials and other related nuclear facilities, equipment, and material are not diverted from peaceful purposes to non-peaceful purposes. European Atomic Energy Community (Euratom) is an international organization of European countries with headquarters in Luxembourg. Euratom establishes and administers safeguards designed to ensure that special nuclear materials and other related nuclear facilities, equipment, and material are not diverted from peaceful purposes to non-peaceful purposes. This paragraph (a) authorizes exports and reexports of commodities or software to the IAEA and Euratom, and reexports by IAEA and Euratom for official international safeguard use, as follows:

(i) Commodities or software consigned to the IAEA at its headquarters in Vienna, Austria or its field offices in Toronto, Ontario, Canada or in Tokyo, Japan for official international safeguards use.

(ii) Commodities or software consigned to the Euratom Safeguards Directorate in Luxembourg, Luxembourg for official international safeguards use.

(iii) Commodities or software consigned to IAEA or Euratom may be reexported to any country for IAEA or Euratom international safeguards use provided that IAEA or Euratom maintains control of or otherwise safeguards the commodities or software and returns the commodities or software to the locations described in paragraphs (a)(1)(i) and (a)(1)(ii) of this section when they become obsolete, are no longer required, or are replaced.

(iv) Commodity or software shipments may be made by persons under direct contract with IAEA or Euratom, or by Department of Energy National Laboratories as directed by the Department of State or the Department of Energy.

(v) The monitoring functions of IAEA and Euratom are not subject to the restrictions on prohibited safeguarded nuclear activities described in § 744.2(a)(3) of the EAR.

(vi) When commodities or software originally consigned to IAEA or Euratom are no longer in IAEA or Euratom official safeguards use, such commodities may be disposed of by destruction or by reexport or transfer in accordance with the EAR.

(2) *Restrictions.* (i) Items on the Sensitive List (see supplement no. 6 to

part 774 of the EAR) may not be exported, reexported, or transferred (in-country) under this paragraph (a), *except* to the countries listed in Country Group A:5 (See supplement no.1 to part 740 of the EAR).

(ii) Items on the Very Sensitive List (see supplement no. 7 to part 774 of the EAR) may not be exported, reexported, or transferred (in-country) under this paragraph (a).

(iii) Encryption items controlled for EI reasons under ECCNs 5A002, 5A004, 5D002, or 5E002 may not be exported, reexported, or transferred (in-country) under this paragraph (a). See § 740.17 of the EAR (License Exception ENC) for possible alternative license exception authorization.

(iv) Without prior authorization from the Bureau of Industry and Security, nationals of countries in Country Group E:1(see supplement no. 1 to this part) may not physically or computationally access computers that have been enhanced by ''electronic assemblies,'' which have been exported or reexported under License Exception GOV and have been used to enhance such computers by aggregation of processors so that the APP of the aggregation exceeds the APP parameter set forth in ECCN 4A003.b.

(v) ''600 series'' items may not be exported or reexported under this paragraph (a), *except* to the countries listed in Country Group A:5 (see supplement no.1 to this part).

(b) *United States Government*—(1) *Scope*. The provisions of this paragraph (b) authorize exports, reexports, and transfers (in-country) to personnel and agencies of the U.S. Government and certain exports by the Department of Defense. ''Agency of the U.S. Government'' includes all civilian and military departments, branches, missions, government-owned corporations, and other agencies of the U.S. Government, but does not include such national agencies as the American Red Cross or international organizations in which the United States participates such as the Organization of American States. Therefore, shipments may not be made to these non-governmental national or international agencies, except as provided in paragraph (b)(2)(i) of this section for U.S. representatives to these organizations.

(2) *Eligibility*—(i) *Items for personal use by personnel and agencies of the U.S. Government*. This provision is available for items in quantities sufficient only for the personal use of members of the U.S. Armed Forces or civilian personnel of the U.S. Government (including U.S. representatives to public international organizations), and their immediate families and household employees. Items for personal use include household effects, food, beverages, and other daily necessities.

(ii) *Exports, reexports, and transfers (in-country) made by or consigned to a department or agency of the U.S. Government*. This paragraph authorizes exports, reexports, and transfers of items when made by or consigned to a department or agency of the U.S. Government solely for its official use or for carrying out any U.S. Government program with foreign governments or international organizations that is authorized by law and subject to control by the President by other means. This paragraph does not authorize a department or agency of the U.S. Government to make any export, reexport, or transfer that is otherwise prohibited by other administrative provisions or by statute. Contractor support personnel of a department or agency of the U.S. Government are eligible for this authorization when in the performance of their duties pursuant to the applicable contract or other official duties. 'Contractor support personnel' for the purpose of this provision means those persons who provide administrative, managerial, scientific or technical support under contract to a U.S. Government department or agency (e.g., contractor employees of Federally Funded Research Facilities or Systems Engineering and Technical Assistance contractors). This authorization is not available when a department or agency of the U.S. Government acts as a transmittal agent on behalf of a non-U.S. Government person, either as a convenience or in satisfaction of security requirements.

(iii) *Exports, reexports, and transfers (in-country) made for or on behalf of a*

department or agency of the U.S. Government. (A) This paragraph authorizes exports, reexports, and transfers (in-country) of items solely for use by a department or agency of the U.S. Government, when:

(*1*) The items are destined to a U.S. person; and

(*2*) The item is exported, reexported, or transferred (in-country) pursuant to a contract between the exporter and a department or agency of the U.S. Government;

(B) This paragraph authorizes exports, reexports, and transfers (in-country) of items to implement or support any U.S. Government cooperative program, project, agreement, or arrangement with a foreign government or international organization or agency that is authorized by law and subject to control by the President by other means, when:

(*1*) The agreement is in force and in effect, or the arrangement is in operation;

(*2*) The exporter, reexporter, or transferor obtains a written authorization from the Secretary or agency head of the U.S. Government department or agency responsible for the program, agreement, or arrangement, or his or her designee, authorizing the exporter, reexporter, or transferor to use this license exception. The written authorization must include the scope of items to be shipped under this license exception; the end users and consignees of the items; and any restrictions on the export, reexport, or transfer (in-country) (including any restrictions on the foreign release of technology);

(*3*) The exporter, reexporter, or transferor has a contract with a department or agency of the U.S. Government for the provision of the items in furtherance of the agreement, or arrangement; and

(*4*) The items being exported, reexported, or transferred (in-country) are not controlled for Chemical Weapons Convention (CW) or proliferation of chemical and biological weapons (CB) reasons;

(C) This paragraph authorizes the temporary export, reexport, or transfer (in-country) of an item in support of any foreign assistance or sales program authorized by law and subject to the control of the President by other means, when:

(*1*) The item is provided pursuant to a contract between the exporter, reexporter, or transferor and a department or agency of the U.S. Government; and

(*2*) The exporter, reexporter, or transferor obtains a written authorization from the Secretary or agency head of the U.S. Government department or agency responsible for the program, or his or her designee, authorizing the exporter, reexporter, or transferor to use this license exception. The written authorization must include the scope of items to be shipped under this license exception; the end users and consignees of the items; and any restrictions on the export, reexport, or transfer (in-country) (including any restrictions on the foreign release of technology);

(D) This paragraph authorizes the export, reexport, or transfer of commodities or software at the direction of the U.S. Department of Defense for an end use in support of an Acquisition and Cross Servicing Agreement (ACSA), when:

(*1*) The ACSA is between the U.S. Government and a foreign government or an international organization and is in force and in effect;

(*2*) The exporter, reexporter, or transferor has a contract with the department or agency of the U.S. government in furtherance of the ACSA; and

(*3*) The exporter, reexporter, or transferor obtains a written authorization from the Secretary or agency head of the U.S. Government department or agency responsible for the ACSA, or his or her designee, authorizing the exporter, reexporter, or transferor to use this license exception. The written authorization must include the scope of items to be shipped under this license exception; the end-users and consignees of the items; and any restrictions on the export, reexport, or transfer (in-country);

(E) This paragraph authorizes the export, reexport, or transfer (in-country) of Government Furnished Equipment (GFE) made by a U.S. Government contractor, when:

(*1*) The GFE will not be provided to any foreign person;

(*2*) The export, reexport, or transfer (in-country) is pursuant to a contract with a department or agency of the U.S. Government; and

(*3*) Shipment documents must include the following statement: ''Property of [insert U.S. Government department, agency, or service]. Property may not enter the trade of the country to which it is shipped. Authorized under License Exception GOV. U.S. Government point of contact: [Insert name and telephone number].''

(F) *Electronic Export Information.* Electronic Export Information (EEI) must be filed in the Automated Export System (AES) for any export made pursuant to paragraph (b)(iii) of this section. The EEI must identify License Exception GOV as the authority for the export and indicate that the applicant has received the relevant documentation from the contracting U.S. Government department, agency, or service. The Internal Transaction Number assigned by AES must be properly annotated on shipping documents (bill of lading, airway bill, other transportation documents, or commercial invoice).

(G) The exporter, reexporter, or transferor must obtain an authorization, if required, before any item previously exported, reexported, or transferred (in-country) under this paragraph is resold, transferred, reexported, transshipped, or disposed of to an end user for any end use, or to any destination other than as authorized by this paragraph (e.g., property disposal of surplus items outside of the United States), unless:

(*1*) The transfer is pursuant to a grant, sale, lease, loan, or cooperative project under the Arms Export Control Act or the Foreign Assistance Act of 1961, as amended; or

(*2*) The item has been destroyed or rendered useless beyond the possibility of restoration.

(iv) *Items exported at the direction of the U.S. Department of Defense.* This paragraph authorizes items to be exported, reexported, or transferred (in-country) pursuant to an official written request or directive from the U.S. Department of Defense.

(v) This paragraph authorizes items sold, leased, or loaned by the U.S. Department of Defense to a foreign country or international organization pursuant to the Arms Export Control Act or the Foreign Assistance Act of 1961 when the items are delivered to representatives of such a country or organization in the United States and exported, reexported, or transferred on a military aircraft or naval vessel of that government or organization or via the Defense Transportation Service.

(vi) This paragraph authorizes transfer of technology in furtherance of a contract between the exporter and an agency of the U.S. Government, if the contract provides for such technology and the technology is not ''development'' or ''production'' technology for ''600 series'' items.

(c) *Cooperating Governments and the North Atlantic Treaty Organization*—(1) *Scope.* The provisions of this paragraph (c) authorize exports, reexports, and transfers (in-country) of the items listed in paragraph (c)(2) of this section to agencies of cooperating governments or agencies of the North Atlantic Treaty Organization (NATO). 'Agency of a cooperating government' includes all civilian and military departments, branches, missions, and other governmental agencies of a cooperating national government. 'Cooperating governments' are the national governments of countries listed in Country Group A:1 (see supplement no. 1 to this part) and the national governments of Hong Kong, Singapore and Taiwan.

(2) *Eligibility*—(i) *Items for official use within national territory by agencies of cooperating governments.* This license exception is available for all items consigned to and for the official use of any 'agency of a cooperating government' within the territory of any cooperating government, except items excluded by paragraph (c)(3) of this section.

(ii) *Items for official use by agencies of cooperating governments for military purposes or NATO.* With the exception of items excluded by paragraph (c)(3) of this section, this license exception is available for all items consigned to and for the official use of:

(A) A military end user of or for the military end use of cooperating governments, or

(B) An agency of NATO.

(iii) *Diplomatic and consular missions of a cooperating government.* This license exception is available for all items consigned to and for the official use of a diplomatic or consular mission of a cooperating government located in any country in Country Group B (see supplement no. 1 to this part), except items excluded by paragraph (c)(3) of this section.

(3) *Exclusions.* The following items may not be exported, reexported, or transferred (in-country) under this paragraph (c):

(i) Items on the Sensitive List (see supplement no. 6 to part 774 of the EAR), *except* to or for the use by governments of countries listed in Country Group A:5 (see supplement no. 1 to this part) or an agency of NATO;

(ii) Items on the Very Sensitive List (see supplement no. 7 to part 774 of the EAR);

(iii) Encryption items controlled for EI reasons under ECCNs 5A002, 5A004, 5D002, or 5E002 (see § 740.17 of the EAR for License Exception ENC);

(iv) Regional stability items controlled under ECCNs 6A002.a.1.c, 6E001 ''technology'' according to the General Technology Note for the ''development'' of equipment in 6A002.a.1.c, and 6E002 ''technology'' according to the General Technology Note for the ''production'' of equipment in 6A002.a.1.c.;

(v) ''600 series'' items, *except* to or for the use by governments of countries listed in Country Group A:5 (see supplement no. 1 to this part) or an agency of NATO;

(vi) Items controlled for nuclear nonproliferation (NP) reasons; or

(vii) Items listed as not eligible for License Exception STA in § 740.20(b)(2)(ii) of the EAR.

(d) *International inspections under the Chemical Weapons Convention (CWC or Convention).* (1) The Organization for the Prohibition of Chemical Weapons (OPCW) is an international organization that establishes and administers an inspection and verification regime under the Convention designed to ensure that certain chemicals and related facilities are not diverted from peaceful purposes to non-peaceful purposes. This paragraph (d) authorizes exports and reexports to the OPCW and exports and reexports by the OPCW for official international inspection and verification use under the terms of the Convention as follows:

(i) Commodities and software consigned to the OPCW at its headquarters in The Hague for official international OPCW use for the monitoring and inspection functions set forth in the Convention, and technology relating to the maintenance, repair, and operation of such commodities and software. The OPCW must maintain ''effective control'' of such commodities, software and technology.

(ii) Controlled technology relating to the training of the OPCW inspectorate.

(iii) Controlled technology relating to a CWC inspection site, including technology released as a result of:

(A) Visual inspection of U.S.-origin equipment or facilities by foreign nationals of the inspection team;

(B) Oral communication of controlled technology to foreign nationals of the inspection team in the U.S. or abroad; and

(C) The application to situations abroad of personal knowledge or technical experience acquired in the U.S.

(2) *Exclusions.* The following items may not be exported or reexported under the provisions of this paragraph (d):

(i) Inspection samples collected in the U.S. pursuant to the Convention;

(ii) Commodities and software that are no longer in OPCW official use. Such items must be transferred in accordance with the EAR.

(iii) ''600 series'' items, *except* to the countries listed in Country Group A:5 (see supplement no. 1 to this part).

(3) *Confidentiality.* The application of the provisions of this paragraph (d) is subject to the condition that the confidentiality of business information is strictly protected in accordance with applicable provisions of the EAR and other U.S. laws regarding the use and transfer of U.S. goods and services.

(4) *Restrictions.* Without prior authorization from the Bureau of Industry and Security, nationals of countries in Country Group E:1 (see supplement no. 1 to this part) may not physically or computationally access computers that have been enhanced by ''electronic assemblies,'' which have been exported or reexported under License Exception

GOV and have been used to enhance such computers by aggregation of processors so that the APP of the aggregation exceeds the APP parameter set forth in ECCN 4A003.b.

(e) *International Space Station (ISS)*—(1) *Scope*. The ISS is a research facility in a low-Earth orbit approximately 190 miles (350 km) above the surface of the Earth. The ISS is a joint project among the space agencies of the United States, Russia, Japan, Canada, Europe and Italy. This paragraph (e) authorizes exports and reexports required on short notice of certain commodities subject to the EAR that are classified under ECCN 9A004 to launch sites for supply missions to the ISS.

(2) *Eligible commodities*. Any commodity subject to the EAR that is classified under ECCN 9A004 and that is required for use on the ISS on short notice.

NOTE 1 TO PARAGRAPH (e)(2): This license exception is not available for the export or reexport of ''parts,'' ''components,'' ''accessories,'' and ''attachments'' to overseas manufacturers for the purpose of incorporation into other items destined for the ISS.

NOTE 2 TO PARAGRAPH (e)(2): For purposes of this paragraph (e), 'short notice' means the exporter is required to have a commodity manifested and at the scheduled launch site for hatch-closure (final stowage) no more than forty-five (45) days from the time the exporter or reexporter received complete documentation. 'Complete documentation' means the exporter or reexporter received the technical description of the commodity and purpose for use of the commodity on the ISS. 'Hatch-closure (final stowage)' means the final date specified by a launch provider by which items must be at a specified location in a launch country in order to be included on a mission to the ISS. The exporter or reexporter must receive the notification to supply the commodity for use on the ISS in writing. That notification must be kept in accordance with paragraph (e)(8) of this section and the Recordkeeping requirements in part 762 of the EAR.

(3) *Eligible destinations*. Eligible destinations are France, Japan, Kazakhstan, and Russia. To be eligible, a destination needs to have a launch for a supply mission to the ISS scheduled by a country participating in the ISS.

(4) *Requirement for commodities to be launched on an eligible space launch vehicle (SLV)*. Only commodities that will be delivered to the ISS using United States, Russian, ESA (French), or Japanese space launch vehicles (SLVs) are eligible under this authorization. Commodities to be delivered to the ISS using SLVs from any other countries are excluded from this authorization.

(5) *Authorizations*—(i) *Authorization to retain commodity at or near launch site for up to six months*. If there are unexpected delays in a launch schedule for reasons such as mechanical failures in a launch vehicle or weather, commodities exported or reexported under this paragraph (e) may be retained at or near the launch site for a period of six (6) months from the time of initial export or reexport before the commodities must be destroyed, returned to the exporter or reexporter, or be the subject of an individually validated license request submitted to BIS to authorize further disposition of the commodities.

(ii) *Authorization to retain commodity abroad at launch country beyond six months*. If, after the commodity is exported or reexported under this authorization, a delay occurs in the launch schedule that would exceed the 6-month deadline in paragraph (e)(5)(i) of this section, the exporter or reexporter or the person in control of the commodities in the launch country may request a one-time 6-month extension by submitting written notification to BIS requesting a 6-month extension and noting the reason for the delay. If the requestor is not contacted by BIS within 30 days from the date of the postmark of the written notification and if the notification meets the requirements of this subparagraph, the request is deemed granted. The request must be sent to BIS at the address listed in part 748 of the EAR and should include the name and address of the exporter or reexporter, the name and address of the person who has control of the commodity, the date the commodities were exported or reexported, a brief product description, and the justification for the extension. To retain a commodity abroad beyond the 6-month extension period, the exporter, reexporter or person in control of the commodity must request authorization by submitting a license application in accordance with §§ 748.1, 748.4 and 748.6

of the EAR to BIS 90 days prior to the expiration of the 6-month extension period.

(iii) *Items not delivered to the ISS because of a failed launch.* If the commodities exported or reexported under this paragraph (e) of this section are not delivered to the ISS because a failed launch causes the destruction of the commodity prior to its being delivered, exporters and reexporters must make note of the destruction of the commodities in accordance with the recordkeeping requirements under paragraph (e)(8)(ii) of this section and part 762 of the EAR.

(6) *Reexports to an alternate launch country.* If a mechanical or weather related issue causes a change from the scheduled launch country to another foreign country after a commodity was exported or reexported, then that commodity may be subsequently reexported to the new scheduled launch country, provided all of the terms and conditions of paragraph (e) of this section are met, along with any other applicable EAR provisions. In such instances, the 6-month time limitation described in paragraph (e)(5)(i) of this section would start over again at the time of the subsequent reexport transaction. Note that if the subsequent reexport may be made under the designation No License Required (NLR) or pursuant to an authorization under the EAR, a reexporter does not need to rely on the provisions contained in this paragraph (e).

(7) *Eligible recipients.* Only persons involved in the launch of commodities to the ISS may receive and have access to commodities exported or reexported pursuant to this paragraph (e), except that:

(i) No commodities may be exported, reexported, or transferred (in-country) under paragraph (e) to any national of an E:1 country (see supplement no. 1 to this part), and

(ii) No person may receive commodities authorized under paragraph (e) of this section who is subject to an end-user or end-use control described in part 744 of the EAR, including the entity list in supplement no. 4 to part 744.

(8) *Recordkeeping requirements.* Exporters and reexporters must maintain records regarding exports or reexports made using this paragraph (e) of this section as well as any other applicable recordkeeping requirements under part 762 of the EAR.

(i) Exporters and reexporters must retain a record of the initial written notification they received requesting these commodities be supplied on short notice for a supply mission to the ISS, including the date the exporter or reexporter received complete documentation (i.e., the day on which the 45-day clock begins).

(ii) Exporters and reexporters must maintain records of the date of any exports or reexports made using this paragraph (e) and the date on which the commodities were launched into space for delivery to the ISS. If the commodities are not delivered to the ISS because of a failed launch whereby the item is destroyed prior to being delivered to the ISS, this must be noted for recordkeeping purposes.

(iii) The return or destruction of defective or worn out parts or components is not required. However, if defective or worn out parts or components originally exported or reexported pursuant to this paragraph (e) are returned from the ISS, then those parts and components may be either: returned to the original country of export or reexport; destroyed; or reexported or transferred (in-country) to a destination that has been designated by NASA for conducting a review and analysis of the defective or worn part or component. Documentation for this activity must be kept for recordkeeping purposes. No commodities that are subject to the EAR may be returned, under the provisions of this paragraph, to a country listed in Country Group E:1 (see supplement no. 1 to this part) or to any person if that person is subject to an end-user or end-use control described in part 744 of the EAR. For purposes of paragraph (e) of this section, a 'defective or worn out' part or component is a part or component that no longer performs its intended function.

[78 FR 22714, Apr. 16, 2013, as amended at 79 FR 32624, June 5, 2014; 80 FR 29442, May 21, 2015; 81 FR 64669, Sept. 20, 2016]

§ 740.12 Gift parcels and humanitarian donations (GFT).

(a) *Gift parcels*—(1) *Scope*. The provisions of paragraph (a) authorize exports and reexports of gift parcels by an individual (donor) addressed to an individual, or a religious, charitable or educational organization (donee) located in any destination for the use of the donee or the donee's immediate family (and not for resale). The gift parcel must be provided free of charge to the donee. However, payment by the donee of any handling charges or of any fees levied by the importing country (e.g., import duties, taxes, etc.) is not considered to be a cost to the donee for purposes of this definition of ''gift parcel.''[1]

(2) *Commodity, value and other limitations*—(i) *Item limitations*—(A) *Prohibited items*. (*1*) For Cuba no items listed on the Commerce Control List other than items listed in § 740.19(b) of the EAR may be included in a gift parcel.

(*2*) For all destinations, no items controlled for chemical and biological weapons (CB), missile technology (MT), national security (NS), nuclear proliferation (NP) or encryption items (EI) reasons on the Commerce Control List (supplement no. 1 to part 774 of the EAR) may be included in a gift parcel.

(*3*) *Items prohibited for destinations in Country Group D:1 or E:2*. For destinations in Country Group D:1 or E:2, military wearing apparel may not be included in a gift parcel regardless of whether all distinctive U.S. military insignia, buttons, and other markings are removed.

(*4*) Gold bullion, gold taels, and gold bars are prohibited as are items intended for resale or reexport.

(B) *Eligible items*. For all destinations, eligible items are food (including vitamins); medicines, medical supplies and devices (including hospital supplies and equipment and equipment for the handicapped); receive-only radio equipment for reception of commercial/civil AM/FM and short wave publicly available frequency bands, and batteries for such equipment; clothing; personal hygiene items; seeds; veterinary medicines and supplies; fishing equipment and supplies; soap-making equipment; as well as all other items of a type normally sent as gifts between individuals (including items listed in § 740.19(b) of the EAR) except for those items prohibited in paragraph (a)(2)(i)(A) of this section. Items in gift parcels must be in quantities normally given as gifts between individuals.

Example to paragraph (a)(2)(i)(B) of this section. A watch or piece of jewelry is normally sent as a gift. However, multiple watches, either in one package or in subsequent shipments, would not qualify for such gift parcels because the quantity would exceed that normally given between individuals. Similarly, a sewing machine or bicycle within the value limit of this License Exception may be an appropriate gift. However, subsequent shipments of the same item to the same donee would not be a gift normally given between individuals.

(ii) *Import requirements*. The commodities must be acceptable in type and quantity by the recipient country for import as gifts. Commodities exceeding the import limits may not be included in gift parcels.

(iii) *Frequency*. (A) Except for gift parcels of food to Cuba, not more than one gift parcel may be sent from the same donor to the same donee in any one calendar month.

(B) There is no frequency limit on gift parcels of food to Cuba.

(C) Parties seeking authorization to exceed the frequency limit due to compelling humanitarian concerns (e.g., for certain gifts of medicine) should submit a license application in accordance with §§ 748.1, 748.4 and 748.6 of the EAR to BIS with complete justification.

(iv) *Value*. The combined total domestic retail value of all commodities and software in a single gift parcel may not exceed $800. This limit does not apply to food sent in a gift parcel to Cuba.

[1] Many foreign countries permit the entry, duty-free, of gift parcels that conform to regulations regarding contents and marking. To secure this advantage, the sender should show the words ''U.S.A. Gift Parcel'' on the addressee side of the package and on any required customs declarations. Information regarding the foreign postal regulations is available at local post offices. Senders of gift parcels who wish information regarding import duties of a foreign country should contact the nearest Commercial Office, Consulate or Embassy of the country concerned.

(v) *Ineligible recipients.* (A) No gift parcel may be sent to any member of the Council of Ministers or flag officer of the Revolutionary Armed Forces.

(B) No gift parcel may be sent to any member of the Politburo.

(C) No gift parcel may be sent to organizations administered or controlled by the Cuban Government or the Cuban Communist Party.

(3) *How to export gift parcels.* (i) A gift parcel must be sent directly to the donee by the individual donor, or for such donor by a commercial or other gift-forwarding service or organization. Each gift parcel must show, on the outside wrapper, the name and address of the donor, as well as the name and address of the donee, regardless of whether sent by the donor or by a forwarding service.

(ii) Each parcel must have the notation ''GIFT—Export License Not Required'' written on the addressee side of the package and the symbol ''GFT'' written on any required customs declaration.

(b) *Humanitarian donations*—(1) *Scope.* The provisions of paragraph (b) authorize exports or reexports by groups or organizations of donations to meet basic human needs when those groups or organizations have experience in maintaining a verifiable system of distribution that ensures delivery to the intended beneficiaries.

(2) *Basic human needs.* Basic human needs are defined as those requirements essential to individual well-being: health, food, clothing, shelter, and education. These needs are considered to extend beyond those of an emergency nature and those that meet direct needs for mere subsistence.

(3) *Eligible donors.* Eligible donors are U.S. charitable organizations that have an established record of involvement in donative programs and experience in maintaining and verifying a system of distribution to ensure delivery of commodities and software to the intended beneficiaries. Eligible distribution arrangements may consist of any one or more of the following:

(i) A permanent staff maintained in the recipient country to monitor the receipt and distribution of the donations to the intended beneficiaries;

(ii) Periodic spot-checks in the recipient country by members of the exporter's staff; or

(iii) An agreement to utilize the services of a charitable organization that has a monitoring system in place.

(4) *Donations.* To qualify for export under the provisions of this paragraph (b), the items must be provided free of charge to the beneficiary. The payment by the beneficiary, however, of normal handling charges or fees levied by the importing country (e.g., import duties, taxes, etc.) is not considered to be a cost to the beneficiary for purposes of this paragraph (b).

(5) *Ineligible commodities and software.* The following commodities and software are not eligible:

(i) Commodities and software controlled for national security, chemical or biological weapons, and nuclear nonproliferation, missile technology or crime control reasons (see supplement no. 1 to part 774 of the EAR);

(ii) Exports for large-scale projects of the kind associated with comprehensive economic growth, such as dams and hydroelectric plants; or

(iii) Exports to Cuba of medical items excluded by § 746.2(b)(1) of the EAR.

(6) *Eligible items.* Eligible commodities and software are those listed in supplement no. 2 to part 740.

(7) *Additional recordkeeping requirements.* In addition to the recordkeeping requirements in part 762 of the EAR, donors must keep records containing the following information:

(i) The donor organization's identity and past experience as an exporter of goods to meet basic human needs;

(ii) Past and current countries to which the donative programs have been and are being directed, with particular reference to donative programs in embargoed destinations;

(iii) Types of projects and commodities involved in the donative programs;

(iv) Specific class(es) of beneficiaries of particular donated goods intended to be exported under this License Exception; and

(v) Information concerning the source of funding for the donative programs and the projected annual value of exports of humanitarian donations.

[61 FR 64282, Dec. 4, 1996. Redesignated at 61 FR 68579, Dec. 30, 1996; 62 FR 25458, May 9, 1997; 69 FR 5690, Feb. 6, 2004; 69 FR 34566, June 22, 2004; 72 FR 3945, Jan. 29, 2007; 72 FR 43531, Aug. 6, 2007; 73 FR 35, Jan. 2, 2008; 73 FR 33673, June 13, 2008; 73 FR 49328, Aug. 21, 2008; 74 FR 45988, Sept. 3, 2009; 79 FR 32624, June 5, 2014; 80 FR 2289, Jan. 16, 2015; 81 FR 71366, Oct. 17, 2016]

§ 740.13 Technology and software—unrestricted (TSU).

This license exception authorizes exports and reexports of operation technology and software; sales technology and software; software updates (bug fixes); ''mass market'' software subject to the General Software Note; and encryption source code (and corresponding object code) that would be considered publicly available under § 734.3(b)(3) of the EAR. Note that encryption software subject to the EAR is not subject to the General Software Note (see paragraph (d)(2) of this section).

(a) *Operation technology and software*—(1) *Scope*. The provisions of paragraph (a) permit exports and reexports of operation technology and software. ''Operation technology'' is the minimum technology necessary for the installation, operation, maintenance (checking), or repair of those commodities or software that are lawfully exported or reexported under a license, a License Exception, or NLR. The ''minimum necessary'' operation technology does not include technology for development or production and includes use technology only to the extent required to ensure safe and efficient use of the commodity or software. Individual entries in the software and technology subcategories of the CCL may further restrict the export or reexport of operation technology. This paragraph (a) authorizes training, provided the training is limited to the operation, maintenance and repair technology identified in this paragraph.

(2) *Provisions and destinations*—(i) *Provisions*. Operation software may be exported or reexported provided that both of the following conditions are met:

(A) The operation software is the minimum necessary to operate equipment authorized for export or reexport; and

(B) The operation software is in object code.

(ii) *Destinations*. Operation software and technology may be exported or reexported to any destination to which the equipment for which it is required has been or is being legally exported or reexported.

(b) *Sales technology*—(1) *Scope*. The provisions of paragraph (b) authorize exports and reexports of sales technology. ''Sales technology'' is data supporting a prospective or actual quotation, bid, or offer to sell, lease, or otherwise supply any item.

(2) *Provisions and destinations*—(i) *Provisions*. Sales technology may be exported or reexported provided that:

(A) The technology is a type customarily transmitted with a prospective or actual quotation, bid, or offer in accordance with established business practice; and

(B) Neither the export nor the reexport will disclose the detailed design, production, or manufacture technology, or the means of reconstruction, of either the quoted item or its product. The purpose of this limitation is to prevent disclosure of technology so detailed that the consignee could reduce the technology to production.

(ii) *Destinations*. Sales technology may be exported or reexported to any destination.

NOTE: Neither this section nor its use means that the U.S. Government intends, or is committed, to approve a license application for any commodity, plant, software, or technology that may be the subject of the transaction to which such quotation, bid, or offer relates. Exporters are advised to include in any quotations, bids, or offers, and in any contracts entered into pursuant to such quotations, bids, or offers, a provision relieving themselves of liability in the event that a license (when required) is not approved by the Bureau of Industry and Security.

(c) *Software updates*. The provisions of paragraph (c) authorize exports and reexports of software updates that are intended for and are limited to correction of errors (''fixes'' to ''bugs'') in

software lawfully exported or reexported (original software). Such software updates may be exported or reexported only to the same consignee to whom the original software was exported or reexported, and such software updates may not enhance the functional capacities of the original software. Such software updates may be exported or reexported to any destination to which the software for which they are required has been legally exported or reexported.

(d) *General Software Note: mass market software*—(1) *Scope.* The provisions of paragraph (d) authorize exports and reexports of mass market software subject to the General Software Note (see supplement no. 2 to part 774 of the EAR; also referenced in this section).[2]

(2) *Exclusions.* The provisions of this paragraph (d) are not available for encryption software controlled for ''EI'' reasons under ECCN 5D002 or for encryption software with symmetric key length exceeding 64-bits that qualifies as mass market encryption software under the criteria in the Cryptography Note (Note 3) of Category 5, Part 2, of the Commerce Control List (supplement no. 1 to part 774 of the EAR). (Once such mass market encryption software has been reviewed by BIS and released from ''EI'' and ''NS'' controls pursuant to § 742.15(b) of the EAR, it is controlled under ECCN 5D992.c and is thus outside the scope of License Exception TSU.) See § 742.15(b) of the EAR for exports and reexports of mass market encryption products controlled under ECCN 5D992.c.

(3) *Provisions and destinations*—(i) *Destinations.* Mass market software is available to all destinations except destinations in Country Group E:1 (see supplement no. 1 to this part).

(ii) *Provisions.* Mass market treatment is available for software that is generally available to the public by being:

(A) Sold from stock at retail selling points, without restriction, by means of:

(*1*) Over the counter transactions;

(*2*) Mail order transactions; or

(*3*) Telephone call transactions; and

(B) Designed for installation by the user without further substantial support by the supplier.

(e) [Reserved]

(f) *Release of technology and source code in the U.S. by U.S. universities to their bona fide and full time regular employees*—(1) *Scope.* This paragraph authorizes the release in the United States of ''technology'' and source code that is subject to the EAR by U.S. universities to foreign nationals who are their bona fide and full time regular employees.

(2) *Eligible foreign nationals (i.e., bona fide and full time regular employees of U.S. universities).* This exception is only available if:

(i) The employee's permanent residence throughout the period of employment is in the U.S.;

(ii) The employee is not a national of a destination listed in Country Group D:5 (see supplement no. 1 to part 740 of the EAR); and

(iii) The university informs the individual in writing that the ''technology'' or source code may not be transferred to other foreign nationals without prior U.S. Government authorization. The obligation not to transfer technology extends beyond the tenure of employment at the university.

(3) *Regular employee.* A regular employee means:

(i) An individual permanently and directly employed by the university; or

(ii) An individual in a long-term contractual relationship with the university where the individual works at the university's facilities; works under the university's direction and control; works full time and exclusively for the university; executes nondisclosure certifications for the university; and where the staffing agency that has seconded the individual has no role in the work the individual performs (other than providing that individual for that work) and the staffing agency would not have access to any controlled technology (other than where specifically authorized by a license or where a license exception is available).

(4) *Exclusions.* (i) No ''technology'' or source code may be released to a foreign national who is subject to a part

[2] Pursuant to 15 CFR § 30.37(f) of the Foreign Trade Regulations (FTR), Electronic Export Information (EEI) via the Automated Export System (AES) is required for mass-market software.

744 end-use or end-user control or where the release would otherwise be inconsistent with part 744; and

(ii) No ''technology'' controlled for ''EI'' (encryption) reasons or ''technology'' or source code controlled for ''MT'' (Missile Technology) reasons may be released under this paragraph (f).

(g) *Copies of technology previously authorized for export to same recipient*. This paragraph authorizes the export, reexport, or transfer (in-country) of copies of technology previously authorized for export, reexport, or transfer (in-country) to the same recipient. This paragraph also authorizes the export, reexport, or transfer (in-country) of revised copies of such technology provided the following three conditions are met:

(1) The item that the technology pertains to is the identical item;

(2) The revisions to the technology are solely editorial and do not add to the content of technology previously exported, reexported, or transferred (in-country) or authorized for export, reexport, or transfer (in-country) to the same recipient; and

(3) The exporter, reexporter, or transferor has no reason to believe the same recipient has used the technology in violation of the original authorization.

(h) *Special recordkeeping requirements: ECCNs 2D983, 2D984, 2E983 and 2E984*. In addition to any other recordkeeping requirements set forth elsewhere in the EAR, exporters are required to maintain records, as specified in this paragraph, when exporting operation software or technology controlled under ECCNs 2D983, 2D984, 2E983, and 2E984, respectively, under License Exception TSU. Records maintained pursuant to this section may be requested at any time by an appropriate BIS official as set forth in § 762.7 of the EAR. The following information must be specially maintained for each export or reexport transaction, under License Exception TSU, of operation software and technology controlled by ECCNs 2D983, 2D984, 2E983, and 2E984:

(1) A description of the software or technology exported or reexported, including the ECCN, as identified on the CCL;

(2) A description of the equipment for which the software or technology is intended to be used, including the ECCN, as indentified on the CCL;

(3) The intended end-use of the software or technology;

(4) The name and address of the end-user;

(5) The quantity of software shipped; and

(6) The location of the equipment for which the software or technology is intended to be used, including the country of destination.

[61 FR 64283, Dec. 4, 1996. Redesignated at 61 FR 68579, Dec. 30, 1996]

EDITORIAL NOTE: For FEDERAL REGISTER citations affecting § 740.13, see the List of CFR Sections Affected, which appears in the Finding Aids section of the printed volume and at *www.fdsys.gov*.

§ 740.14 Baggage (BAG).

(a) *Scope*. This License Exception authorizes individuals leaving the United States either temporarily (i.e., traveling) or longer-term (i.e., moving) and crew members of exporting or reexporting carriers to take to any destination, as personal baggage, the classes of commodities, software and technology described in this section.

(b) *Eligibility*. Individuals leaving the United States may export or reexport any of the following commodities or software for personal use of the individuals or members of their immediate families traveling with them to any destination or series of destinations. Individuals leaving the United States who are U.S. persons, as defined in paragraph (b)(4)(i), may export or reexport technology as a tool of trade under paragraph (b)(4) for their personal use or for the personal use of members of their immediate families who are traveling or moving with them, provided they are also U.S. persons, as defined in paragraph (b)(4)(i), to any destination or series of destinations. Technology exports and reexports authorized under paragraph (b)(4) of this section may be made as actual shipments, transmissions, or releases. Individuals leaving the United States temporarily (i.e., traveling) must bring back items exported and reexported under this License Exception unless they consume the items abroad or are otherwise authorized to dispose of them under the EAR. Crew members

may export or reexport only commodities and software described in paragraphs (b)(1) and (b)(2) of this section to any destination.

(1) *Personal effects.* Usual and reasonable kinds and quantities for personal use of wearing apparel, articles of personal adornment, toilet articles, medicinal supplies, food, souvenirs, games, and similar personal effects, and their containers.

(2) *Household effects.* Usual and reasonable kinds and quantities for personal use of furniture, household effects, household furnishings, and their containers.

(3) *Vehicles.* Usual and reasonable kinds and quantities of vehicles, such as passenger cars, station wagons, trucks, trailers, motorcycles, bicycles, tricycles, perambulators, and their containers.

(4) *Tools of trade.* Usual and reasonable kinds and quantities of tools, instruments, or equipment and their containers and also technology for use in the trade, occupation, employment, vocation, or hobby of the traveler or members of the household who are traveling or moving. For special provisions regarding encryption commodities and software subject to EI controls, see paragraph (f) of this section. For a special provision that specifies restrictions regarding the export or reexport of technology under this paragraph, see paragraph (g).

(i) For purposes of this paragraph (b), U.S. person is defined as follows: an individual who is a citizen of the United States, an individual who is a lawful permanent resident as defined by 8 U.S.C. 1101(a)(2) or an individual who is a protected individual as defined by 8 U.S.C. 1324b(a)(3).

(ii) [Reserved]

(c) *Limits on eligibility.* The export of any item is limited or prohibited, if the kind or quantity is in excess of the limits described in this section. In addition, the items must be:

(1) Owned by the individuals (or by members of their immediate families) or by crew members of exporting carriers on the dates they depart from the United States;

(2) Intended for and necessary and appropriate for the use of the individuals or members of their immediate families traveling with them, or by the crew members of exporting carriers;

(3) Not intended for sale or other disposal; and

(4) Not exported under a bill of lading as cargo if exported by crew members.

(d) *Special provision: unaccompanied baggage.* Individuals departing the United States may ship unaccompanied baggage, which is baggage sent from the United States on a carrier other than that on which an individual departs. Crew members of exporting carriers may not ship unaccompanied baggage. Unaccompanied shipments under this License Exception shall be clearly marked ''BAGGAGE.'' Shipments of unaccompanied baggage may be made at the time of, or within a reasonable time before or after departure of the consignee or owner from the United States. Personal baggage controlled for chemical and biological weapons (CB), missile technology (MT), national security (NS), encryption items (EI) or nuclear nonproliferation (NP) must be shipped within 3 months before or after the month in which the consignee or owner departs the United States. However, commodities controlled for CB, MT, NS, EI or NP may not be exported under this License Exception as unaccompanied baggage to Country Groups D:1, D:2, D:3, D:4, or E:1. (See supplement no. 1 of this part).

(e) *Special provisions: shotguns and shotgun shells.* (1) A United States citizen or a permanent resident alien leaving the United States may export or reexport shotguns with a barrel length of 18 inches or over and shotgun shells under this License Exception, subject to the following limitations:

(i) Not more than three shotguns may be taken on any one trip.

(ii) The shotguns and shotgun shells must be with the person's baggage but they may not be mailed.

(iii) The shotguns and shotgun shells must be for the person's exclusive use for legitimate hunting or lawful sporting purposes, scientific purposes, or personal protection, and not for resale or other transfer of ownership or control. Accordingly, except as provided in (e)(2) of this section, shotguns may not be exported permanently under this License Exception. All shotguns and unused shotgun shells must be returned

to the United States. Note that since certain countries may require an Import Certificate or a U.S. export license before allowing the import of a shotgun, you should determine the import requirements of your country of destination in advance.

(2) A nonresident alien leaving the United States may export or reexport under this License Exception only such shotguns and shotgun shells as he or she brought into the United States under the provisions of the Department of Justice Regulations (27 CFR 478.115(d)).

(f) *Special provisions: encryption commodities and software subject to EI controls on the Commerce Control List.* (1) A U.S. citizen or permanent resident alien of the United States as defined by 8 U.S.C. 1101(a)(20) may use this license exception to export or reexport encryption commodities and software to any destination not in Country Group E:1 of supplement no. 1 of this part.

(2) A person other than a U.S. citizen or permanent resident alien of the United States as defined by 8 U.S.C. 1101(a)(20) (except a national of a country listed in Country Group E:1 of supplement no. 1 of this part who is not a U.S. citizen or permanent resident alien of the United States) may also use this license exception to export or reexport encryption commodities and software to any destination not in Country Group E:1 of supplement no. 1 of this part.

(g) *Special provision: restrictions for Export or Reexport of Technology.* This authorization for the export or reexport of technology under the tools of trade provisions of paragraph (b)(4) of this section may be used only if:

(1) The technology is to be used overseas solely by individuals or members of their immediate families traveling with them provided they are U.S. persons as defined in paragraph (b)(4)(i).

(2) The exporting or reexporting party and the recipient take adequate security precautions to protect against unauthorized access to the technology while the technology is being transmitted and used overseas. Examples of security precautions to help prevent unauthorized access include the following:

(i) Use of secure connections, such as Virtual Private Network connections when accessing IT networks for e-mail and other business activities that involve the transmission and use of the technology authorized under this license exception;

(ii) Use of password systems on electronic devices that will store the technology authorized under this license exception; and

(iii) Use of personal firewalls on electronic devices that will store the technology authorized under this license exception.

(3) The technology authorized under these provisions may not be used for foreign production purposes or for technical assistance unless authorized by BIS;

(4) Any encryption item controlled under ECCN 5E002 is not exported or reexported to any destination listed in Country Group E:1 of supplement no. 1 of this part.

(h) *Special provisions: personal protective equipment classified under ECCN 1A613.c or .d*—(1) *Exports, reexports, or in-country transfers to countries not identified in Country Group D:5.* U.S. persons may export, reexport, or transfer (in-country) one set of body armor classified under ECCN 1A613.d (which may include one helmet classified under ECCN 1A613.c) or one set of chemical or biological agent protective gear classified under ECCN 1A607.f (which may include one additional filter canister classified under ECCN 1A607.x) to countries not identified in Country Group D:5, provided that:

(i) The items are with the U.S. person's baggage or effects, whether accompanied or unaccompanied (but not mailed); *and*

(ii) The items are for that person's exclusive use and not for transfer of ownership unless reexported or transferred (in-country) to another U.S. person.

(2) *Exports, reexports, or in-country transfers to countries identified in Country Group D:5*—(i) *Iraq.* U.S. persons may export, reexport, or transfer (in-country) one set of body armor classified under ECCN 1A613.d (which may include one helmet classified under ECCN 1A613.c) or one set of chemical or

biological agent protective gear classified under ECCN 1A607.f (which may include one additional filter canister classified under ECCN 1A607.x) to Iraq, for personal use, provided that the requirements in paragraph (h)(1) of this section are met. In addition, the U.S. person must be affiliated with the U.S. Government and traveling on official business or traveling in support of a U.S. Government contract, or the U.S. person must be traveling to Iraq under a direct authorization by the Government of Iraq and engaging in activities for, on behalf of, or at the request of, the Government of Iraq. Documentation regarding direct authorization from the Government of Iraq shall include an English translation.

(ii) *Other countries in Country Group D:5.* U.S. persons may export, reexport, or transfer (in-country) one set of body armor classified under ECCN 1A613.d (which may include one helmet classified under ECCN 1A613.c) or one set of chemical or biological agent protective gear classified under ECCN 1A607.f (which may include one additional filter canister classified under ECCN 1A607.x) to countries in Country Group D:5 (except Iraq), for personal use, provided that the requirements in paragraph (h)(1) of this section are met, and the U.S. person is affiliated with the U.S. Government traveling on official business or is traveling in support of a U.S. Government contract.

NOTE TO PARAGRAPH (h): Body armor controlled under ECCN 1A005 is eligible for this License Exception under paragraph (b) of this section.

[61 FR 12768, Mar. 25, 1996. Redesignated at 61 FR 64274, Dec. 4, 1996. Redesignated at 61 FR 68579, Dec. 30, 1996, and amended at 62 FR 25458, May 9, 1997; 63 FR 50522, Sept. 22, 1998; 64 FR 17973, Apr. 13, 1999; 68 FR 35784, June 17, 2003; 69 FR 34567, June 22, 2004; 71 FR 30284, May 26, 2006; 72 FR 3945, Jan. 29, 2007; 72 FR 70512, Dec. 12, 2007; 74 FR 45989, Sept. 8, 2009; 79 FR 281, Jan. 2, 2014; 81 FR 49528, July 28, 2016]

§ 740.15 Aircraft, vessels and spacecraft (AVS).

This License Exception authorizes departure from the United States of foreign registry civil aircraft on temporary sojourn in the United States and of U.S. civil aircraft for temporary sojourn abroad; the export of equipment and spare parts for permanent use on a vessel or aircraft; exports to vessels or planes of U.S. or Canadian registry and U.S. or Canadian Airlines' installations or agents; the export or reexport of cargo that will transit Cuba on an aircraft or vessel on temporary sojourn; and the export of spacecraft and components for fundamental research. Generally, no License Exception symbol is necessary for export clearance purposes; however, when necessary, the symbol ''AVS'' may be used.

(a) *Aircraft on temporary sojourn*—(1) *Foreign registered aircraft.* An operating civil aircraft of foreign registry that has been in the United States on a temporary sojourn may depart from the United States under its own power for any destination, provided that:

(i) No sale or transfer of operational control of the aircraft to nationals of a destination in Country Group E:1 (see supplement no. 1 to this part) has occurred while in the United States;

(ii) The aircraft is not departing for the purpose of sale or transfer of operational control to nationals of a destination in Country Group E:1 (see supplement no. 1 to this part); and

(iii) It does not carry from the United States any item for which an export license is required and has not been granted by the U.S. Government.

(2) *U.S. registered aircraft.* (i) A civil aircraft of U.S. registry operating under an Air Carrier Operating Certificate, Commercial Operating Certificate, or Air Taxi Operating Certificate issued by the Federal Aviation Administration or conducting flights under operating specifications approved by the Federal Aviation Administration pursuant to 14 CFR part 129 of the regulations of the Federal Aviation Administration, may depart from the United States under its own power for any destination, provided that:

(A) The aircraft does not depart for the purpose of sale, lease or other disposition of operational control of the aircraft, or its equipment, parts, accessories, or components to a foreign country or any national thereof;

(B) The aircraft's U.S. registration will not be changed while abroad;

(C) The aircraft is not to be used in any foreign military activity while abroad; and

(D) The aircraft does not carry from the United States any item for which a license is required and has not been granted by the U.S. Government.

(ii) Any other operating civil aircraft of U.S. registry may depart from the United States under its own power for any destination, except to a destination in Country Group E:1 (see supplement no. 1 to this part) (flights to these destinations require a license), provided that:

(A) The aircraft does not depart for the purpose of sale, lease or other disposition of operational control of the aircraft, or its equipment, parts, accessories, or components to a foreign country or any national thereof;

(B) The aircraft's U.S. registration will not be changed while abroad;

(C) The aircraft is not to be used in any foreign military activity while abroad;

(D) The aircraft does not carry from the United States any item for which an export license is required and has not been granted by the U.S. Government; and

(E) The aircraft will be operated while abroad by a U.S. licensed pilot, except that during domestic flights within a foreign country, the aircraft may be operated by a pilot currently licensed by that foreign country.

(3) *Criteria*. The following nine criteria each must be met if the flight is to qualify as a temporary sojourn. To be considered a temporary sojourn, the flight must not be for the purpose of sale or transfer of operational control. An export is for the transfer of operational control unless the exporter retains each of the following indicia of control:

(i) *Hiring of cockpit crew*. Right to hire and fire the cockpit crew.

(ii) *Dispatch of aircraft*. Right to dispatch the aircraft.

(iii) *Selection of routes*. Right to determine the aircraft's routes (except for contractual commitments entered into by the exporter for specifically designated routes).

(iv) *Place of maintenance*. Right to perform or obtain the principal maintenance on the aircraft, which principal maintenance is conducted outside a destination in Country Group E:1 (see supplement no. 1 to this part), under the control of a party who is not a national of any of these countries. (The minimum necessary in-transit maintenance may be performed in any country).

(v) *Location of spares*. Spares are not located in a destination in Country Group E:1 (see supplement no. 1 to this part).

(vi) *Place of registration*. The place of registration is not changed to a destination in Country Group E:1 (see supplement no. 1 to this part).

(vii) No transfer of technology. No technology is transferred to a national of a destination in Country Group E:1 (see supplement no. 1 to this part), except the minimum necessary in transit maintenance to perform flight line servicing required to depart safely.

(viii) *Color and logos*. The aircraft does not bear the livery, colors, or logos of a national of a destination in Country Group E:1 (see supplement no. 1 to this part).

(ix) *Flight number*. The aircraft does not fly under a flight number issued to a national of a destination in Country Group E:1 (see supplement no. 1 to this part) as such a number appears in the Official Airline Guide.

(4) *Reexports*. Civil aircraft legally exported from the United States may be reexported under this section, provided the restrictions described in this paragraph (a) are met.

NOTE TO PARAGRAPH (a). An aircraft exported or reexported to a country pursuant to this paragraph (a) may not remain in that country for more than seven consecutive days before it departs for a country to which it may be exported without a license or the United States.

(b) *Equipment and spare parts for permanent use on a vessel or aircraft, and ship and plane stores*—(1) *Vessel*. Equipment and spare parts for permanent use on a vessel, when necessary for the proper operation of such vessel, may be exported or reexported for use on board a vessel of any registry, except a vessel registered in Country Group D:1 (see supplement no. 1 to part 740), Cuba, or owned or controlled by, or under charter or lease to any of these countries or their nationals. In addition, other

equipment and services for necessary repair to fishing and fishery support vessels of Country Group D:1 may be exported for use on board such vessels when admitted into the United States under governing international fishery agreements.

(2) *Aircraft*. Equipment and spare parts for permanent use on an aircraft, when necessary for the proper operation of such aircraft, may be exported or reexported for use on board an aircraft of any registry, except an aircraft registered in, owned or controlled by, or under charter or lease to a country included in Country Group D:1, Cuba, or a national of any of these countries.

(3) *Ship and plane stores*. Usual and reasonable kinds and quantities of the following commodities may be exported for use or consumption on board an aircraft or vessel of any registry during the outgoing and immediate return flight or voyage.

(i) Deck, engine, and steward department stores, provisions, and supplies for both port and voyage requirements;

(ii) Medical and surgical supplies;

(iii) Food stores;

(iv) Slop chest articles;

(v) Saloon stores or supplies.

(4) *Cuba*. Only items designated as EAR99 or controlled on the Commerce Control List (CCL) (supplement no. 1 to part 774 of the EAR) only for anti-terrorism reasons (*i.e.*, anti-terrorism must be the only reason for control that applies to the item as set forth in the Export Control Classification Number (ECCN) that controls the item) are eligible for export or reexport to Cuba pursuant to this paragraph (b).

(c) *Shipments to U.S. or Canadian vessels, planes and airline installations or agents*—(1) *Exports to vessels or planes of U.S. or Canadian registry*. Export may be made of the commodities set forth in paragraph (c)(3) of this section, for use by or on a specific vessel or plane of U.S. or Canadian registry located at any seaport or airport outside the United States or Canada except a port in Cuba or Country Group D:1 (excluding the PRC), (see supplement no. 1 to part 740) provided that such commodities are all of the following:[3]

(i) Ordered by the person in command or the owner or agent of the vessel or plane to which they are consigned;

(ii) Intended to be used or consumed on board such vessel or plane and necessary for its proper operation;

(iii) In usual and reasonable kinds and quantities during times of extreme need; and

(iv) Shipped as cargo for which Electronic Export Information (EEI) is filed to the Automated Export System (AES) in accordance with the requirements of the Foreign Trade Regulations (FTR) (15 CFR part 30), except EEI is not required to be filed when any of the commodities, other than fuel, is exported by U.S. airlines to their own aircraft abroad for their own use, see 15 CFR 30.37(o) of the FTR.

(2) *Exports to U.S. or Canadian airline's installation or agent*. Exports of the commodities set forth in paragraph (c)(3) of this section, except fuel, may be made to a U.S. or Canadian airline's[4] installation or agent in any foreign destination except Cuba or Country Group D:1 (excluding the PRC), (see supplement no. 1 to part 740) provided such commodities are all of the following:

(i) Ordered by a U.S. or Canadian airline and consigned to its own installation or agent abroad;

(ii) Intended for maintenance, repair, or operation of aircraft registered in either the United States or Canada, and necessary for the aircraft's proper operation, except where such aircraft is located in, or owned, operated or controlled by, or leased or chartered to, Cuba or Country Group D:1 (excluding the PRC) (see supplement no. 1 to part 740) or a national of such country;

(iii) In usual and reasonable kinds and quantities; and

(iv) Shipped as cargo for which Electronic Export Information (EEI) is filed to the Automated Export System (AES) in accordance with the requirements of the Foreign Trade Regulations (FTR) (15 CFR part 30), except EEI is not required to be filed when any of these commodities is exported by U.S. airlines to their own installations and agents abroad for use in their

[3] Where a license is required, see §§ 748.1, 748.4 and 748.6 of the EAR.

[4] See part 772 of the EAR for definitions of United States and Canadian airlines.

aircraft operations, see 15 CFR 30.37(o) of the FTR.

(3) *Applicable commodities*. This paragraph (c) applies to the following commodities, subject to the provisions in paragraph (c)(1) and (c)(2) of this section:

(i) Deck, engine, and steward department stores, provisions, and supplies for both port and voyage requirements;

(ii) Medical and surgical supplies;

(iii) Food stores;

(iv) Slop chest articles;

(v) Saloon stores or supplies; and

(vi) Equipment and spare parts.

(d) *Vessels on temporary sojourn*—(1) *Foreign flagged vessels*. A foreign flagged vessel in the United States may depart from the United States under its own power for any destination, provided that:

(i) No sale or transfer of operational control of the vessel to nationals of a destination in Country Group E:1 (see supplement no. 1 to this part) has occurred while in the United States;

(ii) The vessel is not departing for the purpose of sale or transfer of operational control to nationals of a destination in Country Group E:1 (see supplement no. 1 to this part); and

(iii) The vessel does not carry from the United States any item for which a license is required and has not been granted by the U.S. Government.

(2) *U.S. flagged vessels*. A U.S. flagged vessel may depart from the United States under its own power for any destination, provided that:

(i) The vessel does not depart for the purpose of sale, lease, or transfer of operational control of the vessel, or its equipment, parts, accessories, or components, to a foreign country or any national thereof;

(ii) The vessel's U.S. flag will not be changed while abroad;

(iii) The vessel will not be used in any foreign military activity while abroad;

(iv) The vessel will not carry from the United States any item for which a license is required and has not been granted by the U.S. Government;

(v) Spares for the vessel are not located in a destination in Country Group E:1 (see supplement no. 1 to this part);

(vi) Technology is not transferred to a national of a destination in Country Group E:1 (see supplement no. 1 to this part), except the minimum necessary in-transit maintenance to perform servicing required to depart and enter a port safely; and

(vii) The vessel does not bear the livery, colors, or logos of a national of a destination in Country Group E:1 (see supplement no. 1 to this part).

(3) *Criteria for temporary sojourn of vessels*. The following criteria must be met if a voyage is to be considered a temporary sojourn under this paragraph (d). To be considered a temporary sojourn, the voyage must not be for the purpose of sale or transfer of operational control. A transfer of operational control occurs unless the exporter or reexporter retains each of the following indicia of control:

(i) *Hiring of crew*. Right to hire and fire the crew.

(ii) *Dispatch of vessel*. Right to dispatch the vessel.

(iii) *Selection of routes*. Right to determine the vessel's routes (except for contractual commitments entered into by the exporter for specifically designated routes).

(iv) *Place of maintenance*. Right to perform or obtain the principal maintenance on the vessel, which principal maintenance is conducted outside a destination in Country Group E:1 (see supplement no. 1 to this part), under the control of a party who is not a national of any of these countries. (The minimum necessary in-transit maintenance may be performed in any country).

(4) *Reexports*. Vessels subject to the EAR may be reexported under this section on temporary sojourn, provided that:

(i) The vessel does not depart for the purpose of sale, lease, or transfer of operational control of the vessel, or its equipment, parts, accessories, or components, to a foreign country or any national thereof;

(ii) The vessel's flag will not be changed while abroad;

(iii) The vessel will not be used in any foreign military activity while abroad;

(iv) The vessel will not carry any item for which a license is required and

has not been granted by the U.S. Government;

(v) Spares for the vessel are not located in a destination in Country Group E:1 (see supplement no. 1 to this part);

(vi) Technology is not transferred to a national of a destination in Country Group E:1 (see supplement no. 1 to this part), except the minimum necessary in-transit maintenance to perform servicing required to depart and enter a port safely; and

(vii) The vessel does not bear the livery, colors, or logos of a national of a destination in Country Group E:1 (see supplement no. 1 to this part).

(5) No vessels may be exported or reexported under this License Exception to a country in Country Group E:1.

(6) *Cuba, eligible vessels and purposes.* Only the types of vessels listed in this paragraph (d)(6) departing for Cuba for the purposes listed in this paragraph (d)(6) may depart for Cuba pursuant to this paragraph (d). Vessels used to transport both passengers and items to Cuba may transport automobiles only if the export or reexport of the automobiles to Cuba has been authorized by a separate license issued by BIS (*i.e.*, not authorized by license exception).

(i) Cargo vessels for hire for use in the transportation of items;

(ii) Passenger vessels for hire for use in the transportation of passengers and/or items; and

(iii) Recreational vessels that are used in connection with travel authorized by the Department of the Treasury, Office of Foreign Assets Control (OFAC).

NOTE TO PARAGRAPH (d)(6)(iii): Readers should also consult U.S. Coast Guard regulations at 33 CFR part 107 Subpart B—Unauthorized Entry into Cuban Territorial Waters.

NOTE TO PARAGRAPH (d). A vessel exported or reexported to a country pursuant to this paragraph (d) may not remain in that country for more than 14 consecutive days before it departs for a country to which it may be exported without a license or the United States.

(e) *Intransit cargo.* Cargo laden on board an aircraft or vessel may transit Cuba provided:

(1) The aircraft or vessel is exported or reexported on temporary sojourn to Cuba pursuant to paragraph (a) or (d) of this section or a license from BIS; and

(2) The cargo departs with the aircraft or vessel at the end of its temporary sojourn to Cuba, is not removed from the aircraft or vessel for use in Cuba and is not transferred to another aircraft or vessel while in Cuba.

(f) *Spacecraft for launch.* This paragraph (e) authorizes the export by accredited U.S. institutions of higher learning of commodities subject to the EAR fabricated only for fundamental research purposes when all of the following conditions are met:

(1) The export is to an accredited institution of higher learning, a governmental research center, or an established government funded private research center located in a country other than Country Group D:5 (see supp. no. 1 to this part) and involves exclusively nationals of such countries;

(2) All the information about the commodity, including its design, and all of the resulting information obtained through fundamental research involving the commodity will be published and shared broadly within the scientific community, and is not restricted for proprietary reasons or specific U.S. government access and dissemination controls or other restrictions accepted by the institution or its researchers on publication of scientific and technical information resulting from the project or activity (see § 734.11 of the EAR); and

(3) If the commodity is for permanent export, the platform or system into which the commodity will be incorporated must be a scientific, research, or experimental satellite and must be exclusively concerned with fundamental research and may only be launched into space from countries and by nationals of countries not identified in Country Group D:5.

[61 FR 12678, Mar. 25, 1996. Redesignated and amended at 61 FR 64274, 64283, Dec. 4, 1996. Redesignated at 61 FR 68579, Dec. 30, 1996]

EDITORIAL NOTE: For FEDERAL REGISTER citations affecting § 740.15, see the List of CFR Sections Affected, which appears in the Finding Aids section of the printed volume and at *www.fdsys.gov*.

§ 740.16 Additional permissive reexports (APR).

This License Exception allows the following reexports:

(a) *Reexports from Country Group A:1 and Hong Kong.* Reexports may be made from countries in Country Group A:1 or from Hong Kong, provided that:

(1) The reexport is made in accordance with the conditions of an export authorization from the government of the reexporting country;

(2) The commodities being reexported are not controlled for NP, CB, MT, SI or CC reasons or described in ECCNs 0A919, 3A001.b.2 or b.3 (except those that are being reexported for use in civil telecommunications applications), 6A002, 6A003, or 6A990; and

(3) The reexport is destined to *either:*

(i) A country in Country Group B that is not also included in Country Group D:2, D:3, or D:4; and the commodity being reexported is both controlled for national security reasons and not controlled for export to Country Group A:1; or

(ii) A country in Country Group D:1 (National Security) (see supplement no. 1 to part 740), other than North Korea and the commodity being reexported is controlled for national security reasons.

(b) *Reexports to and among specified countries.* (1) Eligible commodities may be reexported to and among destinations in Country Group A:1 and Hong Kong for use or consumption within a destination in Country Group A:1 (see supplement no. 1 to part 740) or Hong Kong, or for reexport from such country in accordance with other provisions of the EAR.

(2) Commodities not eligible for reexport under paragraph (b)(1) are:

(i) Commodities controlled for nuclear nonproliferation or missile technology reasons;

(ii) Commodities in 3A001.b.2 or b.3 (except those that are being reexported for use in civil telecommunications applications);

(iii) ''Military commodities'' described in ECCN 0A919;

(iv) Commodities described in ECCN 0A987 that incorporate an image intensifier tube; or

(v) Commodities described in ECCNs 6A002 or 6A990.

(3) Cameras described in ECCNs 6A003 may be exported or reexported to and among countries in Country Group A:1 (see supplement no. 1 to this part) if:

(i) Such cameras are fully packaged for use as consumer ready civil products; or

(ii) Such cameras with not more than 111,000 elements are to be embedded in civil products.

(c) Reexports to a destination to which direct shipment from the United States is authorized under an unused outstanding license may be made under the terms of that license. Such reexports shall be recorded in the same manner as exports are recorded, regardless of whether the license is partially or wholly used for reexport purposes. (See part 762 of the EAR for recordkeeping requirements.)

(d) Reexports of any item from Canada that, at the time of reexport, may be exported directly from the United States to the new country of destination under any License Exception.

(e) Reexports (return) to the United States of any item. If the reexporting party requests written authorization because the government of the country from which the reexport will take place requires formal U.S. Government approval, such authorization will generally be given.

(f) Reexports from a foreign destination to Canada of any item if the item could be exported to Canada without a license.

(g) [Reserved]

(h) Shipments of foreign-made products that incorporate U.S.-origin components may be accompanied by U.S.-origin controlled spare parts, provided that they do not exceed 10 percent of the value of the foreign-made product, subject to the restrictions in § 734.4 of the EAR.

(i) Reexports to Sudan of items controlled by ECCNs 2A994; 3A992.a; 5A991.g; 5A992; 6A991; 6A998; 7A994; 8A992.d, .e, .f, and .g; 9A990.a and .b; and 9A991.d and .e. In addition, items in these ECCNs are not counted as controlled U.S. content for purposes of determining license requirements for U.S. parts, components, and materials incorporated in foreign-made products. However, the export from the United

States to any destination with knowledge that they will be reexported directly or indirectly, in whole or in part to Sudan is prohibited without a license.

(j) Reexports of items controlled by NP Column 1 (see supplement no. 1 to part 774 of the EAR) to, among, and from countries described in Country Group A:4 (see supplement no. 1 to part 740), except:

(1) Reexports from countries that are not identified in Country Group A:1 of items that are controlled for NS reasons to destinations in Country Group D:1; and

(2) Reexports to destinations in Country Group E:2 and Country Group D:2.

[61 FR 12768, Mar. 25, 1996. Redesignated at 61 FR 64274, Dec. 4, 1996. Redesignated at 61 FR 68579, Dec. 30, 1996, and amended at 62 FR 25458, May 9, 1997; 63 FR 42228, Aug. 7, 1998; 65 FR 38150, June 19, 2000; 65 FR 60855, Oct. 13, 2000; 67 FR 10614, Mar. 8, 2002; 72 FR 43531, Aug. 6, 2007; 74 FR 23945, May 22, 2009; 74 FR 68145, Dec. 23, 2009; 76 FR 70339, Nov. 14, 2011; 77 FR 39367, July 2, 2012; 79 FR 76872, Dec. 23, 2014; 80 FR 29442, May 21, 2015; 81 FR 70332, Oct. 12, 2016]

§ 740.17 Encryption commodities, software, and technology (ENC).

License Exception ENC authorizes export, reexport, and transfer (in-country) of systems, equipment, commodities, and components therefor that are classified under ECCNs 5A002, 5B002, equivalent or related software and technology therefor classified under 5D002 or 5E002, and ''cryptanalytic items'' classified under ECCNs 5A004, 5D002 or 5E002. This License Exception ENC does not authorize export or reexport to, transfer (in-country) in, or provision of any service in any country listed in Country Groups E:1 or E:2 in supplement no. 1 to part 740 of the EAR, or release of source code or technology to any national of a country listed in Country Groups E:1 or E:2. Reexports and transfers (in-country) under License Exception ENC are subject to the criteria set forth in paragraph (c) of this section. Paragraphs (b) and (d) of this section set forth information about classifications required by this section. Items described in paragraphs (b)(1) and (b)(3)(i), (ii), or (iv) of this section that meet the criteria set forth in Note 3 to Category 5—Part 2 of the Commerce Control List (the ''mass market'' note) are classified under ECCN 5A992.c or 5D992.c following self-classification or classification by BIS and are no longer subject to ''EI'' and ''NS'' controls. Paragraph (e) sets forth reporting required by this section. For items exported under paragraphs (b)(1), (b)(3)(i), (ii), or (iv) of this section and therefore excluded from paragraph (e) reporting requirements, exporters are reminded of the recordkeeping requirements in part 762 of the EAR and that they may be required to make such records available upon request. All classification requests, and reports submitted to BIS pursuant to this section for encryption items will be reviewed by the ENC Encryption Request Coordinator, Ft. Meade, MD.

(a) *No classification request or reporting required.* License Exception ENC authorizes the export, reexport, or transfer (in-country) to the end users and for the end uses set forth in paragraphs (a)(1) through (3) of this section, without submission of a classification request, self-classification report or sales report to BIS.

(1) *Certain exports, reexports, transfers (in-country) to 'private sector end users'*—(i) *Internal ''development'' or ''production'' of new products.* License Exception ENC authorizes certain exports, reexports, and transfers (in-country) of items described in paragraph (a) of this section for the internal ''development'' or ''production'' of new products by 'private sector end users,' wherever located, that are headquartered in a country listed in supplement no. 3 of this part.

(ii) *Certain exports, reexports, transfers (in-country) to related parties, not involving ''development'' or ''production'' of new products.* For internal end uses among 'private sector end users' other than the ''development'' or ''production'' of new products, License Exception ENC authorizes exports, reexports, and transfers (in-country) of non-U.S.-origin items, described in paragraph (a) of this section, to 'private sector end users' wherever located provided that:

(A) That item became subject to the EAR after it was produced;

(B) All parties to the transaction are subsidiaries of the same parent company headquartered in a country listed in supplement no. 3 of this part; and

(C) The characteristics or capabilities of the existing item are not enhanced, unless otherwise authorized by license or license exception.

NOTE TO PARAGRAPH (a)(1): A 'private sector end user' is either: An individual who is not acting on behalf of any foreign government; or a commercial firm (including its subsidiary and parent firms, and other subsidiaries of the same parent) that is not wholly owned by, otherwise controlled by or acting on behalf of, any foreign government.

(2) *Exports, reexports, transfers (in-country) to ''U.S. Subsidiaries.''* License Exception ENC authorizes export, reexport, and transfer (in-country) of items described in paragraph (a) of this section to any ''U.S. subsidiary,'' wherever located. License Exception ENC also authorizes export, reexport, transfer (in-country) of such items by a U.S. company and its subsidiaries to foreign nationals who are employees, individual contractors or interns of a U.S. company or its subsidiaries if the items are for internal company use, including the ''development'' or ''production'' of new products, without prior review by the U.S. Government.

NOTE TO PARAGRAPHS (a)(1) AND (2): All items produced or developed with items exported, reexported, or transferred (in-country) under paragraphs (a)(1) or (2) of this section are subject to the EAR. These items may require the submission of a classification request before sale, reexport or transfer to non-''U.S. subsidiaries,'' unless otherwise authorized by license or license exception.

(3) *Reexports and transfers (in-country) of non-U.S. products developed with or incorporating U.S.-origin encryption source code, components, or toolkits.* License Exception ENC authorizes the reexport and transfer (in-country) of non-U.S. products developed with or incorporating U.S.-origin encryption source code, components or toolkits that are subject to the EAR, provided that the U.S.-origin encryption items have previously been classified or reported and authorized by BIS and the cryptographic functionality has not been changed. Such products include non-U.S. developed products that are designed to operate with U.S. products through a cryptographic interface.

NOTE TO PARAGRAPH (a)(3): This exception from classification and reporting requirements does not apply to non-U.S.-origin products exported from the United States.

(b) *Classification request or self-classification report.* For products described in paragraph (b)(1) of this section that are self-classified by the exporter, a self-classification report in accordance with paragraph (e)(3) of this section is required from specified exporters, reexporters and transferors; for products described in paragraph (b)(1) of this section that are classified by BIS via a CCATS, a self-classification report is not required. For products described in paragraphs (b)(2) and (3) of this section, a thirty-day (30-day) classification request is required in accordance with paragraph (d) of this section. An exporter, reexporter, or transferor may rely on the producer's self-classification (for products described in (b)(1), only) or CCATS for an encryption item eligible for export or reexport under License Exception ENC under paragraph (b)(1), (2), or (3) of this section. Exporters are still required to comply with semi-annual sales reporting requirements under paragraph (e)(1) or (2) of this section, even if relying on a CCATS issued to a producer for specified encryption items described in paragraphs (b)(2) and (b)(3)(iii) of this section.

(1) *Immediate authorization.* This paragraph (b)(1) authorizes the exports, reexports, and transfers (in-country) of the associated commodities self-classified under ECCNs 5A002.a or 5B002, and equivalent or related software therefor classified under 5D002, except any such commodities, software, or components described in (b)(2) or (3) of this section, subject to submission of a self-classification report in accordance with § 740.17(e)(3) of the EAR. Items described in this paragraph (b)(1) that meet the criteria set forth in Note 3 to Category 5—Part 2 of the Commerce Control List (the ''mass market'' note) are classified as ECCN 5A992.c or 5D992.c following self-classification or classification by BIS and are removed from ''EI'' and ''NS'' controls.

(2) *Classification request required.* Thirty (30) days after the submission of a

classification request with BIS in accordance with paragraph (d) of this section and subject to the reporting requirements in paragraph (e) of this section, this paragraph under License Exception ENC authorizes certain exports, reexports, and transfers (in-country) of the items specified in paragraph (b)(2) and submitted for classification.

NOTE TO PARAGRAPH (b)(2) INTRODUCTORY TEXT: Immediately after the classification request is submitted to BIS in accordance with paragraph (d) of this section and subject to the reporting requirements in paragraph (e) of this section, this paragraph also authorizes exports, reexports, and transfers (in-country) of:

1. All submitted encryption items described in this paragraph (b)(2), except ''cryptanalytic items,'' to any end user located or headquartered in a country listed in supplement no. 3 to this part;

2. Encryption source code as described in paragraph (b)(2)(i)(B) to non-''government end users'' in any country;

3. ''Cryptanalytic items'' to non-''government end users,'' only, located or headquartered in a country listed in supplement no. 3 to this part; and

4. Items described in paragraphs (b)(2)(iii) and (b)(2)(iv)(A) of this section, to specified destinations and end users.

(i) *Cryptographic commodities, software, and components.* License Exception ENC authorizes exports, reexports, and transfers (in-country) of the items in paragraph (a)(i)(A) of this section to ''less sensitive government end users'' and non- ''government end users'' located or headquartered in a country not listed in supplement no. 3 to this part, and the items in paragraphs (b)(2)(i)(B) through (H) to non ''government end users'' located or headquartered in a country not listed in supplement no. 3.

(A) *'Network Infrastructure.'* 'Network infrastructure' commodities and software, and components therefor, meeting any of the following with key lengths exceeding 80-bits for symmetric algorithms:

(*1*) *WAN, MAN, VPN, backhaul and long-haul.* Aggregate encrypted WAN, MAN, VPN, backhaul or long-haul throughput (including communications through wireless network elements such as gateways, mobile switches, and controllers) equal to or greater than 250 Mbps;

(*2*) [Reserved]

(*3*) *Satellite infrastructure.* Transmission over satellite at data rates exceeding 10 Mbps;

(*4*) *Media gateways and other unified communications (UC) infrastructure, including Voice-over-Internet Protocol (VoIP) services.* Media (voice/video/data) encryption or encrypted signaling to more than 2,500 endpoints, including centralized key management therefor; *or*

(*5*) *Terrestrial wireless infrastructure.* Air interface coverage (*e.g.*, through base stations, access points to mesh networks, and bridges) exceeding 1,000 meters, where any of the following applies:

(*i*) Maximum transmission data rates exceeding 10 Mbps (at operating ranges beyond 1,000 meters); *or*

(*ii*) Maximum number of concurrent full-duplex voice channels exceeding 30;

NOTES TO PARAGRAPH (b)(2)(i)(A):

1. The License Exception ENC eligibility restrictions of paragraphs (b)(2)(i)(A)(3) (satellite infrastructure) and (b)(2)(i)(A)(5) (terrestrial wireless infrastructure) do not apply to satellite terminals or modems meeting all of the following:

a. The encryption of data over satellite is exclusively from the user terminal to the gateway earth station, and limited to the air interface; and

b. The items meet the requirements of the Cryptography Note (Note 3) in Category 5—Part 2 of the Commerce Control List.

2. 'Network infrastructure' (as applied to encryption items). A 'network infrastructure' commodity or software is any ''end item,'' commodity or ''software'' for providing one or more of the following types of communications:''

(a) Wide Area Network (WAN);

(b) Metropolitan Area Network (MAN);

(c) Virtual Private Network (VPN);

(d) Satellite;

(e) Digital packet telephony/media (voice, video, data) over Internet protocol;

(f) Cellular; or

(g) Trunked.

NOTE 1 TO PARAGRAPH 2: 'Network infrastructure' end items are typically operated by, or for, one or more of the following types of end users:

(1) Medium- or large- sized businesses or enterprises;

(2) Governments;

(3) Telecommunications service providers; or

(4) Internet service providers.

NOTE 2 TO PARAGRAPH 2: Commodities, software, and components for the ''cryptographic activation'' of a 'network infrastructure' item are also considered 'network infrastructure' items.

(B) *Certain ''encryption source code.''* ''Encryption source code'' that is not publicly available as that term is used in § 742.15(b) of the EAR;

(C) *Customized items.* Encryption software, commodities and components therefor, where any of the following applies:

(*1*) *Customized for government end users or end uses.* The item has been designed, modified, adapted, or customized for ''government end user(s);'' *or*

(*2*) *Custom or changeable cryptography.* The cryptographic functionality of the item has been designed or modified to customer specification or can be easily changed by the user*;*

(D) *Quantum cryptography.* ECCN 5A002.c or 5D002 ''quantum cryptography'' commodities or software;

(E) [Reserved]

(F) *Network penetration tools.* Encryption commodities and software that provide penetration capabilities that are capable of attacking, denying, disrupting or otherwise impairing the use of cyber infrastructure or networks;

(G) *Public safety/first responder radio (private mobile radio (PMR)).* Public safety/first responder radio (*e.g.*, implementing Terrestrial Trunked Radio (TETRA) and/or Association of Public-Safety Communications Officials International (APCO) Project 25 (P25) standards);

(H) *Specified cryptographic ultra-wide-band and ''spread spectrum'' items.* Encryption commodities and components therefor, classified under ECCNs 5A002.d or .e, and equivalent or related software therefor classified under ECCN 5D002.

(ii) *Cryptanalytic commodities and software.* ''Cryptanalytic items'' classified in ECCN 5A004 or 5D002 to non- ''government end users'' located or headquartered in countries not listed in supplement no. 3 to this part.

(iii) *''Open cryptographic interface'' items.* Items that provide an ''open cryptographic interface,'' to any end user located or headquartered in a country listed in supplement no. 3 to this part.

(iv) *Specific encryption technology.* Specific encryption technology as follows:

(A) *Technology for ''non-standard cryptography.''* Encryption technology classified under ECCN 5E002 for ''non-standard cryptography,'' to any end user located or headquartered in a country listed in supplement no. 3 to this part;

(B) *Other technology.* Encryption technology classified under ECCN 5E002 except technology for ''cryptanalytic items,'' ''non-standard cryptography'' or any ''open cryptographic interface,'' to any non-''government end user'' located in a country not listed in Country Group D:1, E:1, or E:2 of supplement no. 1 to part 740 of the EAR.

NOTE TO PARAGRAPH (b)(2): Commodities, components, and software classified under ECCNs 5A002.b or 5D002.d, for the ''cryptographic activation'' of commodities or software specified by this paragraph (b)(2) are also controlled under this paragraph (b)(2).

(3) *Classification request required for specified commodities, software, and components.* Thirty (30) days after a classification request is submitted to BIS in accordance with paragraph (d) of this section and subject to the reporting requirements in paragraph (e) of this section, this paragraph authorizes exports, reexports, and transfers (in-country) of the items submitted for classification, as further described in this paragraph (b)(3), to any end user, provided the item does not perform the functions, or otherwise meet the specifications, of any item described in paragraph (b)(2) of this section. Items described in paragraphs (b)(3)(i), (ii), or (iv) of this section that meet the criteria set forth in Note 3 to Category 5—Part 2 of the Commerce Control List (the ''mass market'' note) are classified under ECCN 5A992.c or 5D992.c following classification by BIS.

NOTE TO INTRODUCTORY TEXT OF PARAGRAPH (b)(3): Immediately after the classification request is submitted to BIS in accordance with paragraph (d) of this section and subject to the reporting requirements in paragraph (e) of this section, this paragraph also authorizes exports, reexports, transfers (in-

country) of the items described in this paragraph (b)(3) to any end user located or headquartered in a country listed in supplement no. 3 to this part.

(i) *''Components,'' toolsets, and toolkits.* Specified components classified under ECCN 5A002.a and equivalent or related software classified under ECCN 5D002 not described by paragraph (b)(2) of this section, as follows:

(A) Chips, chipsets, electronic assemblies and field programmable logic devices;

(B) Cryptographic libraries, modules, development kits and toolkits, including for operating systems and cryptographic service providers (CSPs).

(ii) *''Non-standard cryptography'' (by items not otherwise described in paragraph (b)(2) of this section.)* Encryption commodities, software and components not described by paragraph (b)(2) of this section, that provide or perform ''non-standard cryptography'' as defined in part 772 of the EAR.

(iii) *Advanced network vulnerability analysis and digital forensics.* Encryption commodities and software not described by paragraph (b)(2) of this section, that provide or perform vulnerability analysis, network forensics, or computer forensics functions characterized by any of the following:

(A) *Automated network vulnerability analysis and response.* Automated network analysis, visualization, or packet inspection for profiling network flow, network user or client behavior, or network structure/topology and adapting in real-time to the operating environment; *or*

(B) *Digital forensics, including network or computer forensics.* Investigation of data leakage, network breaches, and other malicious intrusion activities through triage of captured digital forensic data for law enforcement purposes or in a similarly rigorous evidentiary manner.

(iv) *''Cryptographic activation'' commodities, components, and software.* Commodities, components, and software classified under ECCNs 5A002.b or 5D002.d where the product or cryptographic functionality is not otherwise described in paragraphs (b)(2) or (b)(3)(i) of this section.

(c) *Reexport and transfer (in-country).* Distributors, resellers or other entities who are not original manufacturers of encryption commodities and software are permitted to use License Exception ENC only in instances where the reexport or transfer (in-country) meets the applicable terms and conditions of this section. Transfers of encryption items listed in paragraph (b)(2) of this section to ''government end users,'' or for government end uses, within the same country are prohibited, unless otherwise authorized by license or license exception.

(d) *Classification request procedures*—(1) *Submission requirements and instructions.* To submit a classification request to BIS, you must submit an application to BIS in accordance with the procedures described in §§ 748.1 and 748.3 of the EAR and the instructions in paragraph (r) of supplement no. 2 to part 748 ''Unique Application and Submission Requirements,'' along with other required information as follows:

(i) [Reserved]

(ii) *Technical information submission requirements.* For all submissions of encryption classification requests for items described under paragraph (b)(2) or (b)(3) of this section, you must submit the applicable information described in paragraphs (a) through (d) of supplement no. 6 to part 742 of the EAR (Technical Questionnaire for Encryption Items). For items eligible for self-classification that are submitted to BIS for classification you may be required to provide BIS this supplement no. 6 to part 742 information on an as-needed basis, upon request by BIS.

(iii) *Changes in encryption functionality following a previous classification.* A new product encryption classification request (under paragraphs (b)(2) or (b)(3) of this section) is required if a change is made to the cryptographic functionality (*e.g.*, algorithms) or other technical characteristics affecting License Exception ENC eligibility (*e.g.*, encrypted throughput) of the originally classified product. However, a new product classification request is not required when a change involves: the subsequent bundling,

patches, upgrades or releases of a product; name changes; or changes to a previously reviewed encryption product where the change is limited to updates of encryption software components where the product is otherwise unchanged.

(2) *Action by BIS.*

(i) [Reserved]

(ii) *For items requiring classification by BIS under paragraphs (b)(2) and (3) of this section.* (A) For classifications that require a thirty (30-day) waiting period, if BIS has not, within thirty days (30 days) from registration in SNAP–R of your complete classification request, informed you that your item is not authorized for License Exception ENC, you may export, reexport, or transfer (in-country) under the applicable provisions of License Exception ENC.

(B) Upon completion of its classification, BIS will issue a Commodity Classification Automated Tracking System (CCATS) to you.

(C) *Hold Without Action (HWA) for classification requests.* BIS may hold your classification request without action if necessary to obtain additional information or for any other reason necessary to ensure an accurate classification. Time on such ''hold without action'' status shall not be counted towards fulfilling the thirty-day (30-day) processing period specified in this paragraph.

(iii) BIS may require you to supply additional relevant technical information about your encryption item(s) or information that pertains to their eligibility for License Exception ENC at any time, before or after the expiration of the thirty-day (30-day) processing period specified in this paragraph and in paragraphs (b)(2) and (3) of this section. If you do not supply such information within 14 days after receiving a request for it from BIS, BIS may return your classification request(s) without action or otherwise suspend or revoke your eligibility to use License Exception ENC for that item(s). At your request, BIS may grant you up to an additional 14 days to provide the requested information. Any request for such an additional number of days must be made prior to the date by which the information was otherwise due to be provided to BIS, and may be approved if BIS concludes that additional time is necessary.

(e) *Reporting requirements*—(1) *Semi-annual reporting requirement.* Semi-annual reporting is required for exports to all destinations other than Canada, and for reexports from Canada for items described under paragraphs (b)(2) and (b)(3)(iii) of this section. Certain encryption items and transactions are excluded from this reporting requirement, see paragraph (e)(1)(iii) of this section. For information about what must be included in the report and submission requirements, see paragraphs (e)(1)(i) and (ii) of this section respectively.

(i) *Information required.* Exporters must include for each item, the Commodity Classification Automated Tracking System (CCATS) number and the name of the item(s) exported (or reexported from Canada), and the following information in their reports:

(A) *Distributors or resellers.* For items exported (or reexported from Canada) to a distributor or other reseller, including subsidiaries of U.S. firms, the name and address of the distributor or reseller, the item and the quantity exported or reexported and, if collected by the exporter as part of the distribution process, the end user's name and address;

(B) *Direct sales.* For items exported (or reexported from Canada) through direct sale, the name and address of the recipient, the item, and the quantity exported; or

(C) *Foreign manufacturers and products that use encryption items.* For exports (*i.e.*, from the United States) or direct transfers (*e.g.*, by a ''U.S. subsidiary'' located outside the United States) of encryption components, source code, general purpose toolkits, equipment controlled under ECCN 5B002, technology, or items that provide an ''open cryptographic interface,'' to a foreign developer or manufacturer headquartered in a country not listed in supplement no. 3 to this part when intended for use in foreign products developed for commercial sale, the names and addresses of the manufacturers using these encryption items and, if known, when the product is made available for commercial sale, a non-proprietary technical description of

the foreign products for which these encryption items are being used (*e.g.*, brochures, other documentation, descriptions or other identifiers of the final foreign product; the algorithm and key lengths used; general programming interfaces to the product, if known; any standards or protocols that the foreign product adheres to; and source code, if available).

(ii) *Submission requirements.* For exports occurring between January 1 and June 30, a report is due no later than August 1 of that year. For exports occurring between July 1 and December 31, a report is due no later than February 1 the following year. These reports must be provided in electronic form. Recommended file formats for electronic submission include spreadsheets, tabular text or structured text. Exporters may request other reporting arrangements with BIS to better reflect their business models. Reports may be sent electronically to BIS at *crypt@bis.doc.gov* and to the ENC Encryption Request Coordinator at *enc@nsa.gov*, or disks and CDs containing the reports may be sent to the following addresses:

(A) Department of Commerce, Bureau of Industry and Security, Office of National Security and Technology Transfer Controls, 14th Street and Pennsylvania Ave. NW., Room 2705, Washington, DC 20230, Attn: Encryption Reports, and

(B) Attn: ENC Encryption Request Coordinator, 9800 Savage Road, Suite 6940, Ft. Meade, MD 20755–6000.

(iii) *Exclusions from reporting requirement.* Reporting is not required for the following items and transactions:

(A) [Reserved]

(B) Encryption commodities or software with a symmetric key length not exceeding 64 bits;

(C) Encryption items exported (or reexported from Canada) via free and anonymous download;

(D) Encryption items from or to a U.S. bank, financial institution or its subsidiaries, affiliates, customers or contractors for banking or financial operations;

(E) [Reserved]

(F) Foreign products developed by bundling or compiling of source code.

(2) *Key length increases.* Reporting is required for commodities and software that, after having been classified and authorized for License Exception ENC in accordance with paragraphs (b)(2) or (3) of this section, are modified only to upgrade the key length used for confidentiality or key exchange algorithms. Such items may be exported, reexported or transferred (in-country) under the previously authorized provision of License Exception ENC without a classification resubmission.

(i) *Information required.* (A) A certification that no change to the encryption functionality has been made other than to upgrade the key length for confidentiality or key exchange algorithms.

(B) The original Commodity Classification Automated Tracking System (CCATS) authorization number issued by BIS and the date of issuance.

(C) The new key length.

(ii) *Submission requirements.* (A) The report must be received by BIS and the ENC Encryption Request Coordinator before the export, reexport or transfer (in-country) of the upgraded product; and

(B) The report must be emailed to *crypt@bis.doc.gov* and *enc@nsa.gov*.

(3) *Self-classification reporting for certain encryption commodities, software and components.* This paragraph (e)(3) sets forth requirements for self-classification reporting to BIS and the ENC Encryption Request Coordinator (Ft. Meade, MD) of encryption commodities, software and components exported or reexported. This reporting requirement applies to commodities and software that meet the criteria of Note 3 to Category 5—Part 2 of the Commerce Control List (''mass market'' note) and are classified under ECCN 5A992.c or 5D992.c following self-classification, as well as to commodities and software that remain classified in ECCNs 5A002, 5B002 or 5D002 following self-classification.

(i) *When to report.* Your self-classification report for applicable encryption commodities, software and components exported or reexported during a calendar year (January 1 through December 31) must be received

by BIS and the ENC Encryption Request Coordinator no later than February 1 the following year.

(ii) *How to report.* Encryption self-classification reports must be sent to BIS and the ENC Encryption Request Coordinator via email or regular mail. In your submission, specify the timeframe that your report spans and identify points of contact to whom questions or other inquiries pertaining to the report should be directed. Follow these instructions for your submissions:

(A) *Submissions via email.* Submit your encryption self-classification report electronically to BIS at *cryptsupp8@bis.doc.gov* and to the ENC Encryption Request Coordinator at *enc@nsa.gov,* as an attachment to an email. Identify your email with subject ''self-classification report.''

(B) *Submissions on disks and CDs.* The self-classification report may be sent to the following addresses, in lieu of email:

(*1*) Department of Commerce, Bureau of Industry and Security, Office of National Security and Technology Transfer Controls, 14th Street and Pennsylvania Ave. NW., Room 2099B, Washington, DC 20230, Attn: Encryption Reports, and

(*2*) Attn: ENC Encryption Request Coordinator, 9800 Savage Road, Suite 6940, Ft. Meade, MD 20755–6000.

(iii) *Information to report.* Your encryption self-classification report must include the information described in paragraph (a) of supplement no. 8 to part 742 for each applicable encryption commodity, software and component made eligible for export or reexport under § 740.17(b)(1) of the EAR. Each product must be included in a report only one time. However, if no new products are made eligible for export or reexport during a calendar year, you must send an email to the addresses listed in paragraph (e)(3)(ii)(A) of this section stating that nothing has changed since the previous report.

(iv) *File format requirements.* The information described in paragraph (a) of supplement no. 8 to part 742 must be provided to BIS and the ENC Encryption Request Coordinator in tabular or spreadsheet form, as an electronic file in comma separated values format (.csv) adhering to the specifications set forth in paragraph (b) of supplement no. 8 to part 742.

[81 FR 64669, Sept. 20, 2016]

§ 740.18 Agricultural commodities (AGR).

(a) *Eligibility requirements.* License Exception AGR permits the export of agricultural commodities to Cuba, as well as the reexport of U.S. origin agricultural commodities to Cuba, provided your transaction meets *all* of the following criteria:

(1) The commodity meets the definition of ''agricultural commodities'' in part 772 of the EAR;

(2) The commodity is EAR99. You must have an official commodity classification of EAR99 from BIS for fertilizers, western red cedar and live horses before you submit a notification under this license exception. See § 748.3 of the EAR for information on how to submit a commodity classification request;

(3) The export or reexport is made pursuant to a written contract, except for donations and commercial samples which are not subject to this contract requirement;

(4) The export or reexport is made within 12 months of the signing of the contract or within 12 months of notification that no objections were raised (if no contract is required). In the case of multiple partial shipments, all such shipments must be made within the 12 months of the signing of the contract or within 12 months of notification that no objections were raised (if no contract is required); and

(5) You notify BIS prior to exporting or reexporting according to the procedures set forth in paragraph (c) of this section. If you intend to engage in multiple shipments during the one-year period after the signing of the contract, you need only notify BIS prior to the first shipment.

(b) *Restrictions.* (1) No export or reexport to any individual or entity designated as a Specially Designated Terrorist or Foreign Terrorist Organization may be made under License Exception AGR (see part 744 of the EAR).

(2) No export or reexport to or for use in biological, chemical, nuclear warfare or missile proliferation activities

may be made under License Exception AGR (see part 744 of the EAR).

(3) No U.S.-owned or controlled foreign firm may export from abroad to Cuba a foreign produced agricultural commodity containing more than 25% U.S.-origin content. Such U.S.-owned or controlled foreign firms require a specific license from BIS as well as the Department of the Treasury's Office of Foreign Assets Control (OFAC). Transactions not subject to the EAR (under 25% U.S.-origin content) require a license from OFAC.

(c) *Prior notification*—(1) *General requirement*. You must notify BIS prior to any export or reexport (or prior to the first of multiple shipments) under License Exception AGR.

(2) *Procedures*. You must provide prior notification of exports and reexports under License Exception AGR by submitting a completed application in accordance with § 748.1 of the EAR. The following blocks must be completed, as appropriate: Blocks 1, 2, 3, 4, 5 (by marking box 5 ''Other''), 14, 16, 17, 18, 19, 21, 22 (a), (e), (f), (g), (h), (i), (j), 23, and 25 according to the instructions described in supplement no. 1 to part 748 of the EAR. If your commodity is fertilizer, western red cedar or live horses, you must confirm that BIS has previously classified your commodity as EAR99 by placing the Commodity Classification Automatic Tracking System (CCATS) number in Block 22(d). BIS will not initiate the registration of an AGR notification unless the application is complete.

(3) *Action by BIS*. Within two business days of the registration of the AGR notification, BIS will refer the notification for interagency review, or if necessary return the notification without action (e.g., if the information provided is incomplete). Registration is defined as the point at which the notification is entered into BIS's electronic system.

(4) *Review by other departments or agencies*. The Departments of Defense, State, and other agencies, as appropriate, may review the AGR notification. BIS must receive department or agency objections within nine business days of the referral. Unlike the provisions described in § 750.4(b) of the EAR, there are no provisions for stopping the processing time of the AGR notification. If, within 11 business days after the date of registration, any reviewing agency provides a written objection that the recipient may promote international terrorism or the transaction raises nonproliferation concerns, you may not use License Exception AGR. In such cases, BIS will notify you that a license is required for the export or reexport. BIS will then process the AGR notification as a license application in accordance with the provisions described in § 750.4 of the EAR, and the licensing policies set forth in the EAR. At this time, BIS may request additional information. When BIS confirms that no agency has raised an objection within eleven business days (as described in paragraph (c)(5) of this section), you may proceed with the transaction provided that you satisfy all other requirements of License Exception AGR, including the requirement to have a written contract prior to any shipment (unless a donation or commercial sample). (Note that the fact that you have been advised that no agency has objected to the transaction does not exempt you from other licensing requirements under the EAR, such as those based on knowledge of a prohibited end-use or end-user as referenced in general prohibition five (part 736 of the EAR) and set forth in part 744 of the EAR.)

(5) *Status of pending AGR notification requests*. You must contact BIS's System for Tracking Export License Applications (STELA) (*https://snapr.bis.doc.gov/stela*) for status of your pending AGR notification or verify the status in BIS's Simplified Network Applications Processing Redesign (SNAP–R) System. STELA will provide the date of registration of the AGR notification. If no department or agency objection is raised within 11 business days, STELA will, on the twelfth business day following the date of registration, provide you with confirmation of that fact. You may not proceed with your shipment unless you confirm with either STELA or SNAP–R that no objection has been raised. If an objection is raised, STELA and SNAP–R will indicate that a license is required. The AGR notification will then be processed as a license application.

In addition, BIS may provide notice of an objection by telephone, fax, courier service, or other means.

(d) *Donations.* (1) Donations of agricultural commodities are eligible for export and reexport to Cuba under License Exception AGR, provided the transaction meets the requirements and procedures of this license exception (except the written contract requirement).

(2) Donations of food items to nongovernmental organizations (NGOs) and individuals in Cuba may also be eligible for License Exception GFT. See § 740.12 for eligibility requirements of gift parcels and humanitarian donations under License Exception GFT.

[66 FR 36681, July 12, 2001, as amended at 73 FR 49329, Aug. 21, 2008; 75 FR 17054, Apr. 5, 2010; 75 FR 31681, June 4, 2010; 80 FR 56902, Sept. 21, 2015]

§ 740.19 Consumer Communications Devices (CCD).

(a) *Authorizations.* This section authorizes the export or reexport of commodities and software to Cuba or Sudan subject to the requirements stated herein. This section does not authorize U.S.-owned or -controlled entities in third countries to engage in reexports of foreign produced commodities to Cuba for which no license would be issued by the Department of the Treasury pursuant to 31 CFR 515.559.

(b) *Eligible commodities and software.* Commodities and software in paragraphs (b)(1) through (17) of this section are eligible for export or reexport under this section to Cuba or Sudan. Commodities in paragraph (b)(18) of this section are eligible for export or reexport under this section to Sudan only.

(1) Consumer computers designated EAR99 or classified under Export Control Classification Numbers (ECCN) 5A992.c or 4A994.b;

(2) Consumer disk drives and solid state storage equipment classified under ECCN 5A992 or designated EAR99;

(3) Input/output control units (other than industrial controllers designed for chemical processing) designated EAR99;

(4) Graphics accelerators and graphics coprocessors designated EAR99;

(5) Monitors classified under ECCN 5A992.c or designated EAR99;

(6) Printers classified under ECCN 5A992.c or designated EAR99;

(7) Modems classified under ECCNs 5A991.b.2, 5A991.b.4., or 5A992.c or designated EAR99;

(8) Network access controllers and communications channel controllers classified under ECCN 5A991.b.4 or designated EAR99;

(9) Keyboards, mice and similar devices designated EAR99;

(10) Mobile phones, including cellular and satellite telephones, personal digital assistants, and subscriber information module (SIM) cards and similar devices classified under ECCNs 5A992.c or 5A991 or designated EAR99;

(11) Memory devices classified under ECCN 5A992.c or designated EAR99;

(12) Consumer ''information security'' equipment, ''software'' (except ''encryption source code'') and peripherals classified under ECCNs 5A992.c or 5D992.c or designated EAR99;

(13) Digital cameras and memory cards classified under ECCN 5A992 or designated EAR99;

(14) Television and radio receivers classified under ECCN 5A992 or designated EAR99;

(15) Recording devices classified under ECCN 5A992 or designated EAR99;

(16) Batteries, chargers, carrying cases and accessories for the equipment described in this paragraph that are designated EAR99;

(17) Consumer ''software'' (except ''encryption source code'') classified under ECCNs 4D994, 5D991 or 5D992.c or designated EAR99 to be used for equipment described in paragraphs (b)(1) through (b)(16) of this section; and

(18) (Sudan only) Global Positioning System receivers or similar satellite receivers controlled under ECCN 7A994.

NOTE TO PARAGRAPH (b): In this paragraph, the term ''consumer'' refers to items that are:

1. Generally available to the public by being sold, without restriction, from stock at retail selling points by means of any of the following:

a. Over-the-counter transactions;

b. Mail order transactions;

c. Electronic transactions; or

d. Telephone call transactions; and

2. Designed for installation by the user without further substantial support by the supplier.

(c) *Eligible and ineligible end-users*—(1) *Organizations*. (i) This license exception may be used to export or reexport eligible commodities and software to and for the use of independent non-governmental organizations in Cuba or Sudan.

(ii) The Cuban Government or the Cuban Communist Party and organizations they administer or control are not eligible end-users.

(iii) The Government of Sudan is not an eligible end-user for any item exported or reexported pursuant to this license exception except for consumer software that is authorized under paragraph (b)(12) or (b)(17) of this section and that is distributed free of charge.

(2) *Individuals*. This License Exception may be used to export eligible commodities and software to and for the use of individuals other than the following:

(i) *Ineligible Cuban Government Officials*. Members of the Council of Ministers and flag officers of the Revolutionary Armed Forces.

(ii) *Ineligible Cuban Communist Party Officials*. Members of the Politburo.

[74 FR 45989, Sept. 8, 2009, as amended at 80 FR 2289, Jan. 16, 2015; 80 FR 8523, Feb. 18, 2015; 80 FR 56902, Sept. 21, 2015; 81 FR 71367, Oct. 17, 2016]

§ 740.20 License Exception Strategic Trade Authorization (STA).

(a) *Introduction*. This section authorizes exports, reexports, and transfers (in-country), including releases within a single country of software source code and technology to foreign nationals, in lieu of a license that would otherwise be required pursuant to part 742 of the EAR.

(b) *Requirements and Limitations*—(1) *Requirements for Using License Exception STA*. (i) *All* of the reasons for control that impose a part 742 license requirement on the *export, reexport or in country transfer* must be addressed in at least one authorizing paragraph of this section.

(ii) The party using License Exception STA must comply with all of the requirements in paragraph (d) of this section.

(2) *Limitations on Use of License Exception STA*. The prohibitions and limits of this paragraph (b)(2) apply notwithstanding the authorizations in paragraph (c) of this section.

(i) License Exception STA may not be used in lieu of any license requirement imposed by ''Part 744—Control Policy: End User and End Use Based'' or by ''Part 746—Embargoes and Other Special Controls'' of the EAR.

(ii) License Exception STA may not be used for any item controlled under ECCNs 0A981, 0A982, 0A983, 0A985, 0E982, or 0E987.

(iii) License Exception STA may not be used for any item that is controlled for reason of encryption items (EI), short supply (SS), surreptitious listening (SL), missile technology (MT) or chemical weapons (CW).

(iv) License Exception STA may not be used for any item identified on the CCL as being subject to the exclusive export control jurisdiction of another agency, such as the Department of State, the Department of Energy, or the Nuclear Regulatory Commission.

(v) License Exception STA may not be used for any item controlled by ECCN 1C351.a, .b, .c, d.11, .d.12 or .e, ECCNs 1C353, 1C354, 1E001 (i.e., for technology, as specified in ECCN 1E001, for items controlled by ECCN 1C351.a, .b, .c, .d.11, .d.12 or .e or ECCNs 1C353 or 1C354) or ECCN 1E351.

(vi) Toxins controlled by ECCN 1C351.d.1 through 1C351.d.10 and 1C351.d.13 through 1C351.d.19 are authorized under License Exception STA to destinations indicated in Country Group A:5 (See supplement no. 1 to this part), subject to the following limits. For purposes of this paragraph, all such toxins that are sent from one exporter, reexporter or transferor to a single end-user, on the same day, constitute one shipment.

(A) The maximum amount of any one toxin in any one shipment may not exceed 100 milligrams.

(B) No exporter, reexporter or transferor may send more than six shipments of any one toxin to any one end user in a single calendar year.

(vii) Commerce Control List Category 7 limitation on use of License

Exception STA. License Exception STA may not be used for 7E004 ''technology,'' except for ''technology'' controlled under 7E004.a.7.

(viii) Commerce Control List Category 9 limitations on use of License Exception STA.

(A) License Exception STA may not be used for 9D001 or 9D002 ''software'' that is specially designed or modified for the ''development'' or ''production'' of:

(*1*) Components of engines controlled by ECCN 9A001 if such components incorporate any of the ''technologies'' controlled by 9E003.a.1, 9E003.a.2, 9E003.a.3, 9E003.a.4, 9E003.a.5, 9E003.c, 9E003.i (other than technology for fan or power turbines), 9E003.h; or

(*2*) Equipment controlled by 9B001.

(B) License Exception STA may not be used for 9D001 ''software'' that is specially designed or modified for the ''development'' of ''technology'' controlled by 9E003.a.1, 9E003.a.2, 9E003.a.3, 9E003.a.4, 9E003.a.5, 9E003.c, 9E003.i (other than technology for fan or power turbines) or 9E003.h.

(C) License Exception STA may not be used for 9D004.f or 9D004.g ''software''.

(D) License Exception STA may not be used for 9E001 ''technology'' according to the General Technology Note for the ''development'' of 9A001.b engines or components of engines controlled by 9A001.b if such components incorporate:

(*1*) Any of the ''technologies'' controlled by 9E003.a.1, 9E003.a.2, 9E003.a.3, 9E003.a.4, 9E003.a.5, 9E003.c, 9E003.i (other than technology for fan or power turbines) or 9E003.h;

(*2*) Any of the 9D001 or 9D002 software in paragraphs (b)(2)(viii)(A) or (B) of this section.

(E) License Exception STA may not be used for 9E002 ''technology'' according to the General Technology Note for the ''production'' of components of engines controlled by 9A001.b if such components incorporate any of the ''technologies'' controlled by 9E003.a.1, 9E003.a.2, 9E003.a.3, 9E003.a.4, 9E003.a.5, 9E003.c, 9E003.i (other than technology for fan or power turbines) 9E003.h.

(F) License Exception STA may not be used for ''technology'' in 9E003.a.1, 9E003.a.2, 9E003.a.3, 9E003.a.4, 9E003.a.5, 9E003.c, 9E003.i (other than technology for fan or power turbines) 9E003.h.

(ix) [Reserved]

(x) License Exception STA may not be used for items controlled by ECCNs 6A002; 6A990; 6D002 (software ''specially designed'' for the ''use'' of commodities controlled under 6A002.b); 6D003.c; 6D991 (software ''specially designed'' for the ''development,'' ''production,'' or ''use'' of commodities controlled under 6A002, 6A003, or 6A990); 6E001 (''technology'' for the ''development'' of commodities controlled under ECCNs 6A002 or 6A003); 6E002 ''technology'' (for the ''production'' of commodities controlled under ECCNs 6A002 or 6A003); or 6E990.

(xi) License Exception STA may not be used for any commodity controlled by ECCN 3A001.b.2 or b.3 (except those that are being exported or reexported for use in civil telecommunications applications), or any ''technology'' controlled by 3E001 for the ''production'' or ''development'' of commodities controlled by 3A001.b.2 or b.3.

(3) *Limitations on the Use of STA that are Specific to ''600 series'' Items.* (i) License Exception STA may not be used for any ''600 series'' items identified in the relevant ECCN as not being eligible for STA.

(ii) License Exception STA may be used to export, reexport, and transfer (in-country) ''600 series'' items to persons, whether non-governmental or governmental, if they are in and, for natural persons, nationals of a country listed in Country Group A:5 (See supplement no. 1 to part 740 of the EAR) or the United States and if:

(A) The *ultimate* end user for such items is the armed forces, police, paramilitary, law enforcement, customs, correctional, fire, or a search and rescue agency of a government of one of the countries listed in Country Group A:5, or the United States Government;

(B) For the ''development,'' ''production,'' operation, installation, maintenance, repair, overhaul, or refurbishing of an item in one of the countries listed in Country Group A:5 or the United States that will be for one, or more, of the following purposes:

(*1*) Ultimately to be used by any such government agencies in one of the

countries listed in Country Group A:5 or the United States Government; or

(*2*) Sent to a person in the United States and not for subsequent export under §740.9(b)(1) (License Exception TMP for items moving in transit through the United States); or

(C) The United States Government has otherwise authorized the ultimate end use, the license or other authorization is in effect, and the consignee verifies in writing that such authorization exists and has provided the license or other approval identifier to the exporter, reexporter or transferor (as applicable).

(iii) License Exception STA may not be used to export, reexport, or transfer (in-country) end items described in ECCN 0A606.a, ECCN 8A609.a, ECCN 8A620.a or .b, or ECCN 9A610.a until after BIS has approved their export under STA under the procedures set out in §740.20(g).

(iv) License Exception STA may not be used to export, reexport, or transfer (in-country) ''600 series'' items if they are ''600 Series Major Defense Equipment'' and the value of such items in the contract requiring their export exceeds $25,000,000.

(c) *Authorizing paragraphs*—(1) *Multiple reasons for control*. Exports, reexports, and transfers (in-country) in which the only applicable reason(s) for control is (are) national security (NS); chemical or biological weapons (CB); nuclear nonproliferation (NP); regional stability (RS); crime control (CC), and/or significant items (SI) are authorized for destinations in or nationals of Country Group A:5 (See supplement no.1 to part 740 of the EAR).

NOTE TO PARAGRAPH (c)(1). *License Exception STA under §740.20(c)(1) may be used to authorize the export, reexport, or transfer (in-country) of ''600 series'' items only if the purchaser, intermediate consignee, ultimate consignee, and end user have previously been approved on a license or other approval, i.e., Directorate of Defense Trade Controls (DDTC) Manufacturing License Agreement (MLA), Technical Assistance Agreement (TAA), Warehouse Distribution Agreement (WDA), or General Correspondence approval (GC) issued by BIS or DDTC at the U.S. Department of State.*

(2) *Controls of lesser sensitivity*. Exports, reexports and transfers (in-country) in which the only applicable reason for control is national security (NS) and the item being exported, reexported or transferred (in-country) is not designated in the STA paragraph in the License Exception section of the ECCN that lists the item are authorized for destinations in or nationals of Country Group A:6 (See supplement no. 1 to this part).

(d) *Conditions*—(1) *Requirement to furnish Export Control Classification Number*. (i) The exporter must furnish to the consignee the ECCN of each item to be shipped pursuant to this section. Once furnished to a particular consignee, the ECCN that applies to any item need not be refurnished to that consignee at the time the same exporter makes an additional shipment of the same item, if the information remains accurate at the time of the additional shipment.

(ii) A reexporter or transferor must furnish to subsequent consignees the ECCN, provided by the exporter or a prior reexporter or transferor, of each item to be shipped pursuant to this section. Once furnished to a particular consignee, the ECCN that applies to any item need not be refurnished to that consignee at the time the same reexporter or transferor makes an additional shipment of the same item, if the information remains accurate at the time of the additional shipment.

(iii) For purposes of determining reexport or transfer eligibility under this section, the consignee may rely on the ECCN provided to it by the party required to furnish the ECCN under paragraph (d)(1)(i) or (ii) of this section unless the consignee knows that the ECCN is incorrect or has changed. The word ''knows'' has the same meaning as the term ''knowledge'' in §772.1 of the EAR.

(2) *Prior Consignee Statement*. The requirements in this paragraph (d)(2) apply to each party using License Exception STA to export, reexport or transfer (in-country), including reexporters and transferors of items previously received under License Exception STA. The exporter, reexporter, or transferor must obtain the following statement in writing from its consignee prior to shipping the item and must retain the statement in accordance with part 762 of the EAR. One statement may be used for multiple

shipments of the same items between the same parties so long as the party names, the description(s) of the item(s) and the ECCNs are correct. The exporter, reexporter, or transferor must maintain a log or other record (such as documents created in the ordinary course of business) that identifies each shipment made pursuant to this section and the specific consignee statement that is associated with each shipment. Paragraphs (d)(2)(i) through (vi) of this section are required for all transactions. In addition, paragraph (d)(2)(vii) is required for all transactions in ''600 series'' items and paragraph (viii) of this section is required for transactions in ''600 series'' items if the consignee is not the government of a country listed in Country Group A:5 (See supplement no. 1 to part 740 of the EAR). Paragraph (d)(2)(viii) is also required for transactions including 9x515 items.

[INSERT NAME(S) OF CONSIGNEE(S)]:

(i) Is aware that [INSERT DESCRIPTION AND APPLICABLE ECCNS OF ITEMS TO BE SHIPPED] will be shipped pursuant to License Exception Strategic Trade Authorization (STA) in § 740.20 of the United States Export Administration Regulations (15 CFR 740.20);

(ii) Has been informed of the ECCNs noted above by [INSERT NAME OF EXPORTER, REEXPORTER OR TRANSFEROR];

(iii) Understands that items shipped pursuant to License Exception STA may not subsequently be reexported pursuant to paragraphs (a) or (b) of License Exception APR (15 CFR 740.16(a) or (b));

(iv) Agrees to obtain a prior consignee statement when using License Exception STA for any reexport or transfer (in-country) of items previously received under License Exception STA;

(v) Agrees not to export, reexport or transfer these items to any destination, use or user prohibited by the United States Export Administration Regulations;

(vi) Agrees to provide copies of this document and all other export, reexport or transfer records (*i.e.*, the documents described in 15 CFR part 762) relevant to the items referenced in this statement to the U.S. Government as set forth in 15 CFR 762.7;

(vii) Understands that License Exception STA may be used to export, reexport, and transfer (in-country) ''600 series'' items to persons, whether nongovernmental or governmental, only if they are in and, for natural persons, nationals of a country listed in Country Group A:5 (See supplement no. 1 to part 740 of the EAR) or the United States and if:

(A) The *ultimate* end user for such items is the armed forces, police, paramilitary, law enforcement, customs, correctional, fire, or a search and rescue agency of a government of one of the countries listed in Country Group A:5 or the United States Government;

(B) For the ''development,'' ''production,'' operation, installation, maintenance, repair, overhaul, or refurbishing of an item in one of the countries listed in Country Group A:5 or the United States that will be for one, or more, of the following purposes:

(*1*) Ultimately to be used by any such government agencies in one of the countries listed in Country Group A:5 or the United States Government; or

(*2*) Sent to a person in the United States and not for subsequent export under § 740.9(b)(1) (License Exception TMP for items moving in transit through the United States); or

(C) The United States Government has otherwise authorized the ultimate end use, the license or other authorization is in effect, and the consignee verifies in writing that such authorization exists and has provided the license or other approval identifier to the exporter, reexporter or transferor (as applicable).

(viii) Agrees to permit a U.S. Government end-use check with respect to the items.

[INSERT NAME AND TITLE OF PERSON SIGNING THIS DOCUMENT, AND DATE DOCUMENT IS SIGNED].

(3) *Notification to consignee of STA shipment.* With each shipment under License Exception STA, the exporter (or reexporter or transferor as applicable), must notify the consignee in writing that the shipment is made pursuant to License Exception STA. The notice must either specify which items are

subject to License Exception STA or state that the entire shipment is made pursuant to License Exception STA. The notice must clearly identify the shipment to which it applies. The written notice may be conveyed by paper documents or by electronic methods such as facsimile or email.

(4) *Requirements for releases of software source code or technology within a single country*. Instead of the requirement of paragraphs (d)(1) through (d)(3) of this section, the party releasing software source code or technology to a national of a country listed in Country Group A:5 or A:6 (See supplement no. 1 to this part) must notify the recipient of the software source code or technology of the restrictions upon further release of the software source code or technology. The notification must either expressly inform the recipient that the EAR impose limits on further disclosure or must be in the form of an agreement in which the recipient agrees to limits on further disclosure. Any such agreement must impose limits that are equivalent to or more restrictive than all limits on further disclosure that are imposed by the EAR. The notification must be in writing and a copy of it must be retained by the party making the release and the recipient of the release. The notification may be in a separate document or included in a document such as a contract or a nondisclosure agreement. If the document has an expiration date, it must provide that the restrictions on disclosure do not expire.

(e) *Limitation on subsequent exports, reexports or in country transfers*. If a commodity has been exported, reexported or transferred in-country pursuant to this section, it may not be subsequently exported, reexported or transferred in-country pursuant to paragraphs (a) or (b) of License Exception APR (§ 740.16(a) or (b) of the EAR). Paragraphs (a) and (b) of License Exception APR do not authorize exports of software or technology.

(f) *Applicability of Wassenaar Arrangement reporting requirements*. See § 743.1 of the EAR for special reporting requirements that apply to some exports made pursuant to this section.

(g) *License Exception STA eligibility requests for 9x515 and ''600 series'' end items*—(1) *Applicability*. Any person may request License Exception STA eligibility for end items described in ECCN 0A606.a, ECCN 8A609.a, ECCN 8A620.a or .b, or ECCN 9A610.a or spacecraft described in 9A515.a that provide space-based logistics, assembly or servicing of any spacecraft (e.g., refueling).

(2) *Required information and manner of requests*. Requests for License Exception STA eligibility must be made via the BIS Simplified Network Application Process–Redesign(SNAP–R) system unless BIS authorizes submission via the paper BIS–748–P Multipurpose Application form. For situations in which BIS 748–P submissions may be authorized, see § 748.1(d)(1). For required information specific to License Exception STA eligibility requests, see supplement no. 1 to part 748, Blocks 5 and 6 and supplement no. 2 to part 748, paragraph (w). In SNAP–R the work type for these applications is ''Export.''

(3) *Timeline for USG review*. The Departments of Commerce, Defense and State will review License Exception STA eligibility requests in accordance with the timelines set forth in Executive Order 12981 and § 750.4. If the License Exception STA request is approved, the process outlined in paragraph (g)(5)(i) of this section is followed.

(4) *Review criteria*. The Departments of Commerce, Defense and State will determine whether the ''end item'' is eligible for this license exception based on an assessment of whether it provides a critical military or intelligence advantage to the United States or is otherwise available in countries that are not regime partners or close allies. If the ''end item'' does not provide a critical military or intelligence advantage to the United States or is otherwise available in countries that are not regime partners or close allies, the Departments will determine that License Exception STA is available unless an overarching foreign policy rationale for restricting STA availability can be articulated. Consensus among the Departments is required in order for an ''end item'' to be eligible for License Exception STA. Such determinations are made by the departments' representatives to the Advisory Committee on Export Policy (ACEP), or their designees.

(5) *Disposition of License Exception STA eligibility requests*—(i) *Approvals*. If the request for STA eligibility is approved, the applicant will receive notification from BIS authorizing the use of the additional License Exception STA for the specific end items requested. This will be in the form of a notice generated by SNAP–R to the applicant. Applicants who receive an approval notification may share it with companies affiliated with them, such as a branch or distributor, and may also take steps to make it public (e.g., on their Web site) if the applicants so wish. In addition, BIS will add a description of the approved end item in the relevant ECCN and in an online table posted on the BIS Web site, which removes the restriction on the use of License Exception STA for the end item identified in the approved request. BIS will publish, as needed, a final rule adding this license exception eligibility to the EAR for that ECCN entry or end item.

(ii) *Denials*. If the STA eligibility request is not approved, the applicant will receive written notification from BIS. This will be in the form of a notice generated by SNAP–R to the applicant. Applicants may re-submit STA eligibility requests at any time.

[76 FR 35287, June 16, 2011, as amended at 76 FR 56101, Sept. 12, 2011; 77 FR 1018, Jan. 9, 2012; 77 FR 39368, July 2, 2012; 78 FR 22718, Apr. 16, 2013; 78 FR 33695, June 5, 2013; 78 FR 42434, July 16, 2013; 78 FR 40911, July 8, 2013; 79 FR 27436, May 13, 2014; 79 FR 32624, June 5, 2014; 79 FR 45296, Aug. 4, 2014; 79 FR 48661, Aug. 18, 2014; 79 FR 76872, Dec. 23, 2014; 79 FR 77866, Dec. 29, 2014; 80 FR 34271, June 16, 2015; 80 FR 39955, July 13, 2014; 81 FR 70332, Oct. 12, 2016]

§ 740.21 Support for the Cuban People (SCP).

(a) *Introduction*. This License Exception authorizes certain exports and reexports to Cuba that are intended to support the Cuban people by improving their living conditions and supporting independent economic activity; strengthening civil society in Cuba; and improving the free flow of information to, from, and among the Cuban people.

(b) *Improving living conditions and supporting independent economic activity*. This paragraph authorizes the export or reexport to Cuba of items designated as EAR99, or controlled on the Commerce Control List (CCL) (supplement no. 1 to part 774 of the EAR) only for anti-terrorism reasons (*i.e.*, anti-terrorism must be the only reason for control that applies to the item as set forth in the Export Control Classification Number (ECCN) that controls the item). If any other reason for control applies to the item, it is not authorized for export or reexport by this paragraph. The item must be within one or more of the following categories:

(1) Building materials, equipment, and tools for use by the private sector to construct or renovate *privately-owned* buildings, including privately-owned residences, businesses, places of worship and buildings for private sector social or recreational use;

(2) Tools and equipment for private sector agricultural activity;

(3) Tools, equipment, supplies, and instruments for use by private sector entrepreneurs; or

(4) Items sold directly to individuals in Cuba for their personal use or their immediate family's personal use, other than officials identified in paragraphs (d)(4)(ii) or (iii) of this section.

(c) *Strengthening civil society*. This paragraph authorizes the export or reexport to Cuba of certain items for use in specified activities that can strengthen civil society. The items authorized pursuant this paragraph are limited to those designated as EAR99 or controlled only for anti-terrorism reasons on the CCL (*i.e.*, anti-terrorism must be the only reason for control that applies to the item as set forth in the ECCN that controls the item). If any other reason for control applies to the item, it is not authorized for export or reexport by this paragraph. The export or reexport must be within one or more of the following categories:

(1) The export or reexport to Cuba of *donated* items for use in scientific, archaeological, cultural, ecological, educational, historic preservation, or sporting activities. The activities may not relate to the ''development,'' ''production,'' ''use,'' operation, installation, maintenance, repair, overhaul or refurbishing of any item enumerated or otherwise described on the United States Munitions List (22 CFR part 121)

or of any item enumerated or otherwise described on the Commerce Control List (supplement no. 1 to part 774 of the EAR) unless the only reason for control that applies to that item as set forth in the ECCN that controls that item is anti-terrorism.

(2) The *temporary* export or reexport to Cuba of items by travelers to Cuba for the travelers' use in scientific, archeological, cultural, ecological, educational, historic preservation, or sporting activities, or professional meetings or research. The following requirements apply:

(i) The research must be directly related to traveler's profession, professional background or area of expertise, including area of graduate-level full-time study.

(ii) The activities or research may not relate to the ''development,'' ''production,'' ''use,'' operation, installation, maintenance, repair, overhaul or refurbishing of any item enumerated or otherwise described on the United States Munitions List (22 CFR part 121) or of any item enumerated or otherwise described on the Commerce Control List (supplement no. 1 to part 774 of the EAR) unless the only reason for control that applies to that item as set forth in the ECCN that controls that item is anti-terrorism.

(iii) The items must remain under the traveler's ''effective control'' while in Cuba.

(iv) Items authorized for temporary export by this paragraph must be returned to the United States within two years of the date of export from the United States unless:

(A) The items are consumed in Cuba; or

(B) The exporter applies for and receives a license from BIS, prior to the expiration of the two year period, authorizing the items to remain in Cuba for longer than two years.

(v) Paragraph (c)(2) of this section does not authorize exports if, at the time of the export, the exporter has ''knowledge'' that the item exported will remain in Cuba for more than two years.

(3) The export or reexport to Cuba of items to human rights organizations, individuals or non-governmental organizations that promote independent activity intended to strengthen civil society.

(d) *Improving communications.* This paragraph authorizes the export or reexport to Cuba of certain items intended to improve the free flow of information to, from, and among the Cuban people. The items authorized pursuant to this paragraph are limited to those designated as EAR99 or controlled only for anti-terrorism reasons on the CCL (*i.e.*, anti-terrorism must be the only reason for control that applies to the item as set forth in the ECCN that controls the item). If any other reason for control applies to the item, it is not authorized for export or reexport by this paragraph. The export or reexport must be within one or more of the following categories:

(1) The export or reexport to Cuba of items for telecommunications, including access to the Internet, use of Internet services, infrastructure creation and upgrades.

(2) The export or reexport to Cuba of items for use by news media personnel engaged in the gathering and dissemination of news to the general public and who are:

(i) Regularly employed as journalists by a news reporting organization;

(ii) Regularly employed as supporting broadcast or technical personnel;

(iii) Freelance journalists with a record of previous journalistic experience working on a freelance journalistic project; or

(iv) Broadcast or technical personnel with a record of previous broadcast or technical experience who are supporting a freelance journalist working on a freelance journalistic project.

(3) The export or reexport to Cuba of items for use by U.S. news bureaus engaged in the gathering and dissemination of news to the general public.

(4) The export or reexport to Cuba of commodities or software that will be used by individuals or private sector entities to develop software that will improve the free flow of information or that will support the private sector activities described in paragraph (b) of this section. The following are ineligible end-users:

(i) The Cuban Government or the Cuban Communist Party and organizations they administer or control;

(ii) Members of the Council of Ministers and flag officers of the Revolutionary Armed Forces; and

(iii) Members of the Politburo.

(e) *Facilitating engagement, communications, and commerce.* This paragraph (e) authorizes the export or reexport to Cuba of certain items intended to facilitate engagement between the U.S. and Cuban people; the free flow of information to, from, and among the Cuban people; and independent economic activity in Cuba. The export or reexport must be within one or more of the following categories:

(1) The export or reexport to Cuba of items for use by persons authorized by the Department of the Treasury, Office of Foreign Assets Control (OFAC) to establish and maintain a physical or business presence in Cuba pursuant to 31 CFR 515.573 or pursuant to a specific license issued by OFAC. The items authorized pursuant to this paragraph (e)(1) are limited to those designated as EAR99 (*i.e.*, items subject to the EAR but not specified in any ECCN) or controlled on the CCL only for anti-terrorism reasons.

(2) The export or reexport to Cuba of items to be given away for free as gifts for promotional purposes. Items authorized pursuant to this paragraph (e)(3) are limited to those items of a type normally given away for free as gifts for promotional purposes that are designated as EAR99 (*i.e.*, items subject to the EAR but not specified in any ECCN).

NOTE TO PARAGRAPH (e): Any resulting payments associated with establishing or maintaining a physical or business presence in Cuba, such as lease payments, are permitted only to the extent authorized by 31 CFR 515.573 or a specific license issued by OFAC.

(f) *Temporary exports and reexports to Cuba.* This paragraph (f) authorizes the export or reexport to Cuba, for periods not exceeding one year, of certain items designated as EAR99 or controlled only for anti-terrorism reasons on the CCL (*i.e.*, anti-terrorism must be the only reason for control that applies to the item as set forth in the ECCN that controls the item). If any other reason for control applies to the item, it is not authorized for export or reexport by this paragraph. This paragraph does not authorize any transaction if the exporter or reexporter has ''knowledge'' that the item is intended to remain in Cuba for more than one year; if an order to acquire the item, such as a purchase order, has been received before shipment; or when the item is for subsequent lease or rental. The export or reexport must be within one or more of the following categories.

(1) *Tools of trade—commodities and software.* Commodities or software to be used by the exporter or reexporter or its employees for the installation, servicing or repair of items that are subject to the EAR and that have been exported or reexported to Cuba under a license or license exception, or foreign-origin items that are not subject to the EAR that are owned and used exclusively by private sector entities in Cuba, may be exported or reexported under this paragraph (f). The commodities or software must remain under the ''effective control'' of the exporter or reexporter or its employees. Examples of security precautions to help prevent unauthorized access include the following:

(i) Use of secure connections, such as Virtual Private Network connections, when accessing IT networks for activities that involve the transmission and use of the software authorized under this license exception;

(ii) Use of password systems on electronic devices that store the software authorized under this license exception; and

(iii) Use of personal firewalls on electronic devices that store the software authorized under this license exception.

(2) *Tools of trade—technology.* Technology to be used by a 'U.S. person' exporter or reexporter or its employees who are traveling to or on temporary assignment in Cuba for the installation, servicing or repair of items that are subject to the EAR and that have been exported or reexported to Cuba under a license or license exception, or foreign-origin items that are not subject to the EAR that are owned and used exclusively by private sector entities in Cuba, may be exported or reexported under this paragraph (f). For purposes of this paragraph (f)(2), a 'U.S. person' is: an individual who is a citizen of the United States, an individual

who is ''lawfully admitted for permanent residence'' in the United States as defined by 8 U.S.C. 1101(a)(20) or an individual who is a protected individual as defined by 8 U.S.C. 1324b(a)(3). 'U.S. person' also means any juridical person organized under the laws of the United States, or any jurisdiction within the United States (*e.g.*, corporation, business association, partnership, society, trust, or any other entity, organization or group that is authorized to do business in the United States). If the employee who will use the technology is not a 'U.S. person,' the release of that technology to that employee must either not require a license or be authorized by a license or a license exception other than this section before it may be exported or reexported to that employee under this paragraph. The exporter or reexporter and the recipient of the technology must take security precautions to protect against unauthorized release of the technology while the technology is being shipped or transmitted and used overseas. Examples of security precautions to help prevent unauthorized access include the following:

(i) Use of secure connections, such as Virtual Private Network connections, when accessing IT networks for email and other business activities that involve the transmission and use of the technology authorized under this license exception;

(ii) Use of password systems on electronic devices that will store the technology authorized under this license exception; and

(iii) Use of personal firewalls on electronic devices that will store the technology authorized under this license exception.

(3) *Kits of replacement ''parts'' or ''components.''* Kits consisting of replacement ''parts'' or ''components'' for items that have been exported or reexported to Cuba under a license or license exception, or foreign-origin items that are not subject to the EAR that are owned and used exclusively by private sector entities in Cuba, may be exported or reexported under this paragraph (f)(3) provided:

(i) The kits remain under ''effective control'' of the exporter or reexporter or its employees; and

(ii) All parts and components in the kit are returned, except that one-for-one replacements may be made in accordance with the requirements of License Exception Servicing and Replacement of Parts and Equipment (RPL) and the defective parts and components returned (see Parts, Components, Accessories and Attachments in § 740.10(a)).

(4) *Exhibition and demonstration.* Commodities or software for exhibition or demonstration at trade shows, or to any entity that would be eligible to receive the commodities or software under paragraphs (a) through (e) of this section, may be exported or reexported under this paragraph (f). The commodities or software must remain under the ''effective control'' of the exporter or reexporter or its private sector agent, may not be exhibited or demonstrated at any one location for more than 30 days and may not be used for more than the minimum extent required for effective exhibition or demonstration.

(5) *Containers.* Containers that would require a license for export or reexport to Cuba but that are necessary for shipment of commodities being exported to Cuba under a license or license exception may be exported or reexported to Cuba. However, this paragraph (f) does not authorize the export of the container's contents, which, if not exempt from licensing, must be separately authorized for export or reexport under either a license or a license exception.

[80 FR 2289, Jan. 16, 2015, as amended at 80 FR 56902, Sept. 21, 2015; 81 FR 13974, Mar. 16, 2016; 81 FR 71367, Oct. 17, 2016]

SUPPLEMENT NO. 1 TO PART 740—COUNTRY GROUPS

COUNTRY GROUP A

Country	[A:1] Wassenaar participating states[1]	[A:2] Missile technology control regime	[A:3] Australia group	[A:4] Nuclear suppliers group[2]	[A:5]	[A:6]
Albania						X
Argentina	X	X	X	X	X	
Australia	X	X	X	X	X	
Austria	X	X	X	X	X	
Belarus				X		
Belgium	X	X	X	X	X	
Brazil		X		X		
Bulgaria	X	X	X	X	X	
Canada	X	X	X	X	X	
Croatia	X		X	X	X	
Cyprus			X	X		
Czech Republic	X	X	X	X	X	
Denmark	X	X	X	X	X	
Estonia	X		X	X	X	
Finland	X	X	X	X	X	
France	X	X	X	X	X	
Germany	X	X	X	X	X	
Greece	X	X	X	X	X	
Hong Kong						X
Hungary	X	X	X	X	X	
Iceland	X	X	X	X	X	
India		X				X
Ireland	X	X	X	X	X	
Israel						X
Italy	X	X	X	X	X	
Japan	X	X	X	X	X	
Kazakhstan				X		
Korea, South	X	X	X	X	X	
Latvia	X		X	X	X	
Lithuania	X		X	X	X	
Luxembourg	X	X	X	X	X	
Malta			X	X		X
Mexico	X		X	X		
Netherlands	X	X	X	X	X	
New Zealand	X	X	X	X	X	
Norway	X	X	X	X	X	
Poland	X	X	X	X	X	
Portugal	X	X	X	X	X	
Romania	X		X	X	X	
Russia		X		X		
Serbia				X		
Singapore						X
Slovakia	X		X	X	X	
Slovenia	X		X	X	X	
South Africa	X	X		X		X
Spain	X	X	X	X	X	
Sweden	X	X	X	X	X	
Switzerland	X	X	X	X	X	
Taiwan						X
Turkey	X	X	X	X	X	
Ukraine[3]		X	X	X		
United Kingdom	X	X	X	X	X	
United States	X	X	X	X		

[1] Country Group A:1 is a list of the Wassenaar Arrangement Participating States, except for Malta, Russia and Ukraine.

[2] Country Group A:4 is a list of the Nuclear Suppliers Group countries, except for the People's Republic of China (PRC).

[3] For purposes of this supplement, as well as any other EAR provision that references the Country Groups, the designations for Ukraine also apply to the Crimea region of Ukraine. See § 746.6(c) for an exhaustive listing of license exceptions that are available for the Crimea region of Ukraine. No other EAR license exceptions are available for the Crimea region of Ukraine. The Crimea region of Ukraine includes the land territory in that region as well as any maritime area over which sovereignty, sovereign rights, or jurisdiction is claimed based on purported annexation of that land territory.

COUNTRY GROUP B—COUNTRIES

Afghanistan
Albania
Algeria
Andorra
Angola
Antigua and Barbuda
Argentina
Aruba
Australia
Austria
The Bahamas
Bahrain
Bangladesh
Barbados
Belgium
Belize
Benin
Bhutan
Bolivia
Bosnia & Herzegovina
Botswana
Brazil
Brunei
Bulgaria
Burkina Faso
Burma
Burundi
Cameroon
Canada
Cape Verde
Central African Republic
Chad
Chile
Colombia
Comoros
Congo (Democratic Republic of the)
Congo (Republic of the)
Costa Rica
Cote d'lvoire
Croatia
Curaçao
Cyprus
Czech Republic
Denmark
Djibouti
Dominica
Dominican Republic
Ecuador
Egypt
El Salvador
Equatorial Guinea
Eritrea
Estonia
Ethiopia
Fiji
Finland
France
Gabon
Gambia, The
Germany
Ghana
Greece
Grenada
Guatemala
Guinea
Guinea-Bissau
Guyana
Haiti
Honduras
Hong Kong
Hungary
Iceland
India
Indonesia
Ireland
Israel
Italy
Jamaica
Japan
Jordan
Kenya
Kiribati
Korea, South
Kosovo
Kuwait
Latvia
Lebanon
Lesotho
Liberia
Lithuania
Luxembourg
Macedonia, The Former Yugoslav Republic of
Madagascar
Malawi
Malaysia
Maldives
Mali
Malta
Marshall Islands
Mauritania
Mauritius
Mexico
Micronesia, Federated States of
Monaco
Montenegro
Morocco
Mozambique
Namibia
Nauru
Nepal
Netherlands
New Zealand
Nicaragua
Niger
Nigeria
Norway
Oman
Pakistan
Palau
Panama
Papua New Guinea
Paraguay
Peru
Philippines
Poland
Portugal
Qatar
Romania
Rwanda
Saint Kitts & Nevis
Saint Lucia
Saint Vincent and the Grenadines
Samoa
San Marino
Sao Tome & Principe
Saudi Arabia
Senegal
Serbia
Seychelles
Sierra Leone
Singapore
Sint Maarten (the Dutch two-fifths of the island of Saint Martin)
Slovakia
Slovenia
Solomon Islands
Somalia
South Africa
South Sudan, Republic of
Spain
Sri Lanka
Surinam
Swaziland
Sweden
Switzerland
Taiwan
Tanzania
Thailand
Timor–Leste
Togo
Tonga
Trlnidad & Tobago
Tunisia
Turkey
Tuvalu
Uganda
United Arab Emirates
United Kingdom
United States
Uruguay
Vanuatu
Vatican City
Venezuela
Western Sahara
Yemen
Zambia
Zimbabwe

COUNTRY GROUP C [RESERVED]

COUNTRY GROUP D

Country	[D: 1] National Security	[D: 2] Nuclear	[D: 3] Chemical & Biological	[D: 4] Missile Technology	[D: 5] U.S. Arms Embargoed Countries[1]
Afghanistan	.....	.....	X	.....	X
Armenia	X	.....	X		
Azerbaijan	X	.....	X		
Bahrain	.....	.....	X	X	
Belarus	X	.....	X	.....	X
Burma	.....	.....	X	.....	X
Cambodia	X				
Central African Republic	.....	.....	.....	.....	X
China (PRC)	X	.....	X	X	X
Congo (Democratic Republic of)	.....	.....	.....	.....	X
Cuba	.....	X	X	.....	X
Cyprus	.....	.....	.....	.....	X
Egypt	.....	.....	X	X	
Eritrea	.....	.....	.....	.....	X
Georgia	X	.....	X		
Haiti	.....	.....	.....	.....	X
Iran	.....	X	X	X	X
Iraq	X	X	X	X	X
Israel	.....	X	X	X	
Jordan	.....	.....	X	X	
Kazakhstan	X	.....	X		
Korea, North	X	X	X	X	X
Kuwait	.....	.....	X	X	
Kyrgyzstan	X	.....	X		
Laos	X				
Lebanon	.....	.....	X	X	X
Libya	X	X	X	X	X
Macau	X	.....	X	X	
Moldova	X	.....	X		
Mongolia	X	.....	X		
Oman	.....	.....	X	X	
Pakistan	.....	X	X	X	
Qatar	.....	.....	X	X	
Russia	X	.....	X		
Saudi Arabia	.....	.....	X	X	
Somalia	.....	.....	.....	.....	X
Sudan	.....	.....	.....	.....	X
Syria	.....	.....	X	X	X
Taiwan	.....	.....	X		
Tajikistan	X	.....	X		
Turkmenistan	X	.....	X		
Ukraine	X				
United Arab Emirates	.....	.....	X	X	
Uzbekistan	X	.....	X		
Venezuela	.....	.....	.....	.....	X
Vietnam	X	.....	X	.....	
Yemen	.....	.....	X	X	

COUNTRY GROUP D—Continued

Country	[D: 1] National Security	[D: 2] Nuclear	[D: 3] Chemical & Biological	[D: 4] Missile Technology	[D: 5] U.S. Arms Embargoed Countries[1]
Zimbabwe	.....	.....	.....	.....	X

[1] *Note to Country Group D:5:* Countries subject to U.S. arms embargoes are identified by the State Department through notices published in the FEDERAL REGISTER. The list of arms embargoed destinations in this paragraph is drawn from 22 CFR § 126.1 and State Department FEDERAL REGISTER notices related to arms embargoes (compiled at *http://www.pmddtc.state.gov /embargoed countries /index.html)* and will be amended when the State Department publishes subsequent notices. If there are any discrepancies between the list of countries in this paragraph and the countries identified by the State Department as subject to a U.S. arms embargo (in the FEDERAL REGISTER), the State Department's list of countries subject to U.S. arms embargoes shall be controlling.

COUNTRY GROUP E [1]

Country	[E:1] Terrorist supporting countries[2]	[E:2] Unilateral embargo
Cuba	.....	X
Iran	X	
Korea, North	X	
Sudan	X	
Syria	X	

[1] In addition to the controls maintained by the Bureau of Industry and Security pursuant to the EAR, note that the Department of the Treasury administers:

(a) A comprehensive embargo against Cuba, Iran, and Sudan; and

(b) An embargo against certain persons, e.g., Specially Designated Terrorists (SDT), Foreign Terrorist Organizations (FTO), Specially Designated Global Terrorists (SDGT), and Specially Designated Narcotics Traffickers (SDNT). Please see part 744 of the EAR for controls maintained by the Bureau of Industry and Security on these and other persons.

[2] The President made inapplicable with respect to Iraq provisions of law that apply to countries that have supported terrorism.

[61 FR 12768, Mar. 25, 1996]

EDITORIAL NOTE: For FEDERAL REGISTER citations affecting supplement no. 1 to part 740, see the List of CFR Sections Affected, which appears in the Finding Aids section of the printed volume and at *www.fdsys.gov*.

SUPPLEMENT NO. 2 TO PART 740—ITEMS THAT MAY BE DONATED TO MEET BASIC HUMAN NEEDS UNDER THE HUMANITARIAN LICENSE EXCEPTION

(a) *Health*

Equipment for the Handicapped
Hospital Supplies and Equipment
Laboratory Supplies and Equipment
Medical Supplies and Devices
Medicine-Processing Equipment
Medicines
Vitamins
Water Resources Equipment

Food
Agricultural Materials and Machinery Suited to Small-Scale Farming Operations
Agricultural Research and Testing Equipment
Fertilizers
Fishing Equipment and Supplies Suited to Small-Scale Fishing Operations

(b) *Food*

Insecticides
Pesticides
Seeds
Small-Scale Irrigation Equipment
Veterinary Medicines and Supplies

(c) *Clothes and Household Goods*

Bedding
Clothes
Cooking Utensils
Fabric
Personal Hygiene Items
Soap-Making Equipment
Weaving and Sewing Equipment

(d) *Shelter*

Building Materials
Hand Tools

(e) *Education*

Books
Individual School Supplies
School Furniture
Special Education Supplies and Equipment for the Handicapped

(f) *Basic Support Equipment and Supplies Necessary To Operate and Administer the Donative Program*

Audio-Visual Aids for Training
Generators
Office Supplies and Equipment

SUPPLEMENT NO. 3 TO PART 740—LICENSE EXCEPTION ENC FAVORABLE TREATMENT COUNTRIES

Austria	Japan
Australia	Latvia
Belgium	Lithuania
Bulgaria	Luxembourg
Canada	Malta
Croatia	Netherlands
Cyprus	New Zealand
Czech Republic	Norway
Estonia	Poland
Denmark	Portugal
Finland	Romania
France	Slovakia
Germany	Slovenia
Greece	Spain
Hungary	Sweden
Iceland	Switzerland
Ireland	Turkey
Italy	United Kingdom

[69 FR 71363, Dec. 9, 2004, as amended at 73 FR 57507, Oct. 3, 2008; 81 FR 64673, Sept. 20, 2016]

PART 742—CONTROL POLICY—CCL BASED CONTROLS

Sec.
742.1 Introduction.
742.2 Proliferation of chemical and biological weapons.
742.3 Nuclear nonproliferation.
742.4 National security.
742.5 Missile technology.
742.6 Regional stability.
742.7 Crime control and detection.
742.8 Anti-terrorism: Iran.
742.9 Anti-terrorism: Syria.
742.10 Anti-terrorism: Sudan.
742.11 Specially designed implements of torture, including thumbscrews, thumbcuffs, fingercuffs, spiked batons, and parts and accessories, n.e.s.
742.12 [Reserved]
742.13 Communications intercepting devices; software and technology for communications intercepting devices.
742.14 Significant items: hot section technology for the development, production or overhaul of commercial aircraft engines, components, and systems.
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742.16 [Reserved]
742.17 Exports of firearms to OAS member countries.
742.18 Chemical Weapons Convention (CWC or Convention).
742.19 Anti-terrorism: North Korea.
SUPPLEMENT NO. 1 TO PART 742—NONPROLIFERATION OF CHEMICAL AND BIOLOGICAL WEAPONS
SUPPLEMENT NO. 2 TO PART 742—ANTI-TERRORISM CONTROLS: IRAN, NORTH KOREA, SYRIA AND SUDAN CONTRACT SANCTITY DATES AND RELATED POLICIES
SUPPLEMENT NOS. 3–5 TO PART 742 [RESERVED]
SUPPLEMENT NO. 6 TO PART 742—TECHNICAL QUESTIONNAIRE FOR ENCRYPTION AND OTHER ''INFORMATION SECURITY'' ITEMS
SUPPLEMENT NO. 7 TO PART 742—DESCRIPTION OF MAJOR WEAPONS SYSTEMS
SUPPLEMENT NO. 8 TO PART 742—SELF-CLASSIFICATION REPORT FOR ENCRYPTION ITEMS

AUTHORITY: 50 U.S.C. 4601 *et seq.;* 50 U.S.C. 1701 *et seq.;* 22 U.S.C. 3201 *et seq.;* 42 U.S.C. 2139a; 22 U.S.C. 7201 *et seq.;* 22 U.S.C. 7210; Sec. 1503, Pub. L. 108–11, 117 Stat. 559; E.O. 12058, 43 FR 20947, 3 CFR, 1978 Comp., p. 179; E.O. 12851, 58 FR 33181, 3 CFR, 1993 Comp., p. 608; E.O. 12938, 59 FR 59099, 3 CFR, 1994 Comp., p. 950; E.O. 13026, 61 FR 58767, 3 CFR, 1996 Comp., p. 228; E.O. 13222, 66 FR 44025, 3 CFR, 2001 Comp., p. 783; Presidential Determination 2003–23, 68 FR 26459, 3 CFR, 2004 Comp., p. 320; Notice of November 12, 2015, 80 FR 70667 (November 13, 2015); Notice of August 4, 2016, 81 FR 52587 (August 8, 2016).

SOURCE: 61 FR 12786, Mar. 25, 1996, unless otherwise noted.

§ 742.1 Introduction.

In this part, references to the Export Administration Regulations (EAR) are references to 15 CFR chapter VII, subchapter C.

(a) *Scope*. This part describes all the reasons for control reflected in the Country Chart in supplement no. 1 to part 738 of the EAR. In addition, it includes licensing requirements and licensing policies for the following items that are not reflected on the Country Chart: specially designed implements of torture, high performance computers, and communications intercepting devices. In addition to describing the reasons for control and licensing requirements and policies, this part describes any applicable contract sanctity provisions that may apply to specific controls and includes a description of any multilateral regime under which specific controls are maintained.

(b) *Reasons for control listed on the CCL not covered by this part*. This part describes the license requirements and the licensing policies for all the ''Reasons for Control'' that are listed on the Commerce Control List (CCL) except ''Short Supply'' and ''U.N. Sanctions,'' which do not appear on the Country Chart.

(1) *Short supply*. ECCNs containing items subject to short supply controls (''SS'') refer the exporter to part 754 of the EAR. These ECCNs are: 0A980 (Horses for export by sea); 1C980 (certain inorganic chemicals); 1C982 (certain other petroleum products); 1C983 (certain natural gas liquids and other natural gas derivatives); 1C984 (certain manufactured gas and synthetic natural gas (except when commingled with natural gas and thus subject to export authorization from the Department of Energy); and 1C988 (Unprocessed western red cedar (thuja plicata) logs and timber, and rough, dressed and worked lumber containing wane).

(2) *U.N. Sanctions*. The United Nations imposes sanctions, short of complete embargoes, against certain countries which may result in controls that supplement those otherwise maintained under the EAR for that particular country. This part does not address license requirements and licensing policies for controls implementing U.N. sanctions. CCL entries containing items subject to U.N. sanctions will refer the exporter to part 746 of the EAR, Embargoes and Other Special Controls, for any supplemental controls that may apply to exports and reexports involving these countries.

(c) *Exports and reexports involving Cuba and Iran*. This part does not cover license requirements and licensing policies that apply to exports and reexports to embargoed destinations (Cuba and Iran). These comprehensive embargoes cover a broader range of items than those reflected in the CCL. If you are exporting or reexporting to any of these destinations, you should first review part 746 of the EAR, Embargoes and Other Special Controls.

(d) *Anti-terrorism Controls on Iran, North Korea, Sudan and Syria*. Commerce maintains anti-terrorism controls on Iran, North Korea, Syria and Sudan under section 6(a) of the Export Administration Act. Items controlled under section 6(a) to Iran, Syria, Sudan, and North Korea are described in §§ 742.8, 742.9, 742.10, and 742.19, respectively, and in supplement no. 2 to part 742. Commerce also maintains controls under section 6(j) of the EAA to Iran, North Korea, Sudan and Syria. Items controlled to these countries under EAA section 6(j) are also described in supplement 2 to part 742. The Secretaries of Commerce and State are required to notify appropriate Committees of the Congress 30 days before issuing a license for an item controlled under section 6(j) to North Korea, Iran, Sudan or Syria. If you are exporting or reexporting to Iran, North Korea, or Syria, you should review part 746 of the EAR, Embargoes and Other Special Controls.

(e) *End-user and end-use based controls*. This part does not cover prohibitions and licensing requirements for exports of items not included on the CCL that are subject to end-use and end-user controls: certain nuclear end-uses; certain missile end-uses; certain chemical and biological weapons end-uses; certain naval nuclear propulsion end-uses; certain activities of U.S. persons; and certain exports to and for the

use of certain foreign vessels and aircraft. Licensing requirements and policies for these exports are contained in part 744 of the EAR.

(f) *Overlapping license policies.* Many items on the CCL are subject to more than one type of control (e.g., national security (NS), missile technology (MT), nuclear nonproliferation (NP), regional stability (RS)). In addition, applications for all items on the CCL, other than those controlled for short supply reasons, may be reviewed for missile technology (see § 742.5(b)(3) of this part), nuclear nonproliferation (see § 742.3(b)(2) of this part), or chemical and biological weapons (see § 742.2(b)(3) of this part), if the end-use or end-user may be involved in certain proliferation activities. Finally, many multilaterally controlled items are reviewed for anti-terrorism reasons if they are destined for a terrorism-supporting country (see paragraph (d) of this section). Your application for a license will be reviewed under all applicable licensing policies. A license will be issued only if an application can be approved under all applicable licensing policies.

[61 FR 12786, Mar. 25, 1996, as amended at 62 FR 25458, May 9, 1997; 65 FR 38151, June 19, 2000; 69 FR 23629, Apr. 29, 2004; 69 FR 46075, July 30, 2004; 71 FR 51717, Aug. 31, 2006; 72 FR 3725, Jan. 26, 2007; 76 FR 77117, Dec. 12, 2011; 79 FR 34410, June 17, 2014; 80 FR 43318, July 22, 2015; 81 FR 29486, May 12, 2016]

§ 742.2 Proliferation of chemical and biological weapons.

(a) *License requirements.* The following controls are maintained in support of the U.S. foreign policy of opposing the proliferation and illegal use of chemical and biological weapons. (See also § 742.18 of this part for license requirements pursuant to the Chemical Weapons Convention).

(1) If CB Column 1 of the Country Chart (supplement no. 1 to part 738 of the EAR) is indicated in the appropriate ECCN, a license is required to all destinations, including Canada, for the following:

(i) Human pathogens, zoonoses, toxins, animal pathogens, genetically modified microorganisms and plant pathogens identified in ECCNs 1C351, 1C353, and 1C354; and

(ii) Technology (ECCNs 1E001 and 1E351) for the production and/or disposal of microbiological commodities described in paragraph (a)(1)(i) of this section.

(2) If CB Column 2 of the Country Chart (supplement no. 1 to part 738 of the EAR) is indicated in the appropriate ECCN, a license is required to all destinations except countries in Country Group A:3 (see supplement no. 1 to part 740 of the EAR) (Australia Group members) for the following:

(i) Chemicals identified in ECCN 1C350 (precursor and intermediate chemicals used in the production of chemical warfare agents).

(A) This license requirement includes chemical mixtures identified in ECCN 1C350.b, .c, or .d, except as specified in License Requirements Note 2 to that ECCN.

(B) This licensing requirement does not include chemical compounds created with any chemicals identified in ECCN 1C350, unless those compounds are also identified in ECCN 1C350.

(C) This licensing requirement does not apply to any of the following medical, analytical, diagnostic, and food testing kits that consist of pre-packaged materials of defined composition that are specifically developed, packaged, and marketed for diagnostic, analytical, or public health purposes:

(*1*) Test kits containing no more than 300 grams of any chemical controlled by ECCN 1C350.b or .c (CB-controlled chemicals also identified as Schedule 2 or 3 chemicals under the CWC) that are destined for export or reexport to CWC States Parties (destinations listed in supplement no. 2 to part 745 of the EAR). Such test kits are controlled by ECCN 1C395 for CB and CW reasons, to States not Party to the CWC (destinations not listed in supplement no. 2 to part 745 of the EAR), and for AT reasons.

(*2*) Test kits that contain no more than 300 grams of any chemical controlled by ECCN 1C350.d (CB-controlled chemicals not also identified as Schedule 1, 2, or 3 chemicals under the CWC). Such test kits are controlled by ECCN 1C995 for AT reasons.

(ii) Software (ECCN 1D390) for process control that is specifically configured to control or initiate production

of the chemical precursors controlled by ECCN 1C350.

(iii) Technology (ECCN 1E001) for the development or production of chemical detection systems and dedicated detectors therefore, controlled by ECCN 1A004.c, that also have the technical characteristics described in ECCN 2B351.a.

(iv) Technology (ECCNs 1E001 and 1E350) involving the following for facilities designed or intended to produce chemicals described in 1C350:

(A) Overall plant design;

(B) Design, specification, or procurement of equipment;

(C) Supervision of construction, installation, or operation of complete plant or components thereof;

(D) Training of personnel; or

(E) Consultation on specific problems involving such facilities.

(v) Technology (ECCNs 1E001 and 1E351) for the production and/or disposal of chemical precursors described in ECCN 1C350;

(vi) Equipment and materials identified in ECCN 2B350 or 2B351 on the CCL, chemical detection systems controlled by 1A004.c for detecting chemical warfare agents and having the characteristics of toxic gas monitoring systems described in 2B351.a, and valves controlled by ECCN 2A226 having the characteristics of those described in 2B350.g, which can be used in the production of chemical weapons precursors or chemical warfare agents.

(vii) Equipment and materials identified in ECCN 2B352, which can be used in the production of biological agents.

(viii) Dedicated software identified in ECCN 2D351 for the ''use'' of toxic gas monitoring systems and their dedicated detecting components controlled by ECCN 2B351.

(ix) Technology identified in ECCN 2E001 for the ''development'' of software controlled by ECCN 2D351.

(x) Technology identified in ECCN 2E001, 2E002, or 2E301 for:

(A) The development, production, or use of items controlled by ECCN 2B350, 2B351, or 2B352; or

(B) The development or production of valves controlled by ECCN 2A226 having the characteristics of those described in ECCN 2B350.g.

(xi) Technology identified in ECCN 2E201 or 2E290 for the use of valves controlled by ECCN 2A226 having the characteristics of those described in 2B350.g.

(3) If CB Column 3 of the Country Chart (supplement no. 1 to part 738 of the EAR) is indicated in the appropriate ECCN, a license is required to Country Group D:3 (see supplement no. 1 to part 740 of the EAR) for medical products identified in ECCN 1C991.d.

(4) A license is required, to States not Party to the CWC (destinations not listed in supplement no. 2 to part 745 of the EAR), for mixtures controlled by 1C395.a and test kits controlled by 1C395.b.

(b) *Licensing policy*. (1) License applications for the items described in paragraph (a) of this section will be considered on a case-by-case basis to determine whether the export or reexport would make a material contribution to the design, development, production, stockpiling or use of chemical or biological weapons. When an export or reexport is deemed to make such a material contribution, the license will be denied. When an export or reexport is intended to be used in a chemical weapons or biological weapons program, or for chemical or biological weapons terrorism purposes, it is deemed to make a material contribution. The factors listed in paragraph (b)(2) of this section are among those that will be considered to determine what action should be taken on license applications for these items.

(2) The following factors are among those that will be considered to determine what action should be taken on license applications for the items described in paragraph (a) of this section:

(i) The specific nature of the end-use, including the appropriateness of the stated end-use;

(ii) The significance of the export and reexport in terms of its potential contribution to the design, development, production, stockpiling, or use of chemical or biological weapons;

(iii) The nonproliferation credentials of the importing country, including the importing country's chemical and biological capabilities and objectives;

(iv) The extent and effectiveness of the export control system in the importing country and in any intermediary country through which the items being exported or reexported will transit or be transshipped en route to the importing country;

(v) The risk that the items will be diverted for use in a chemical weapons or biological weapons program, or for chemical weapons or biological weapons terrorism purposes;

(vi) The reliability of the parties to the transaction, including whether:

(A) An export or reexport license application involving any such parties has previously been denied;

(B) Any such parties have been engaged in clandestine or illegal procurement activities;

(C) The end-user is capable of securely handling and storing the items to be exported or reexported;

(vii) Relevant information about proliferation and terrorism activities, including activities involving the design, development, production, stockpiling, or use of chemical or biological weapons by any parties to the transaction;

(viii) The types of assurances or guarantees against the design, development, production, stockpiling, or use of chemical or biological weapons that are given in a particular case, including any relevant assurances provided by the importing country or the end-user;

(ix) The applicability of other multilateral export control or nonproliferation agreements (e.g., the Chemical Weapons Convention and the Biological and Toxin Weapons Convention) to the transaction; and

(x) The existence of a pre-existing contract.

(3) BIS will review license applications in accordance with the licensing policy described in paragraph (b)(1) of this section for items not described in paragraph (a) of this section that:

(i) Require a license for reasons other than short supply; *and*

(ii) Could be destined for the design, development, production, stockpiling, or use of chemical or biological weapons, or for a facility engaged in such activities.

(4) License applications for items described in paragraph (a) of this section, when destined for the People's Republic of China or Russia, will be reviewed in accordance with the licensing policies in both paragraph (b) of this section and § 742.4(b)(7).

(c) *Contract sanctity*. Contract sanctity dates are set forth in supplement no. 1 to part 742. Applicants who wish that a preexisting contract be considered in reviewing their license applications must submit documentation sufficient to establish the existence of such a contract.

(d) *Australia Group*. The Australia Group, a multilateral body that works to halt the spread of chemical and biological weapons, has developed common control lists of items specifically related to chemical and biological weapons. Australia Group members are listed in Country Group A:3 (see supplement no. 1 to part 740 of the EAR). Controls on items listed in paragraph (a) of this section are consistent with lists agreed to in the Australia Group.

(e) *License application requirements and instructions*. Unique application and submission requirements for chemicals, medicinals, and pharmaceuticals are described in paragraph (a) of supplement no. 2 to part 748 of the EAR.

[61 FR 12786, Mar. 25, 1996]

EDITORIAL NOTE: For FEDERAL REGISTER citations affecting § 742.2, see the List of CFR Sections Affected, which appears in the Finding Aids section of the printed volume and at *www.fdsys.gov*.

§ 742.3 Nuclear nonproliferation.

(a) *License requirements*. Section 309(c) of the Nuclear Non-Proliferation Act of 1978 requires BIS to identify items subject to the EAR that could be of significance for nuclear explosive purposes if used for activities other than those authorized at the time of export or reexport. ECCNs on the CCL that include the symbol ''NP 1'' or ''NP 2'' in the ''Country Chart'' column of the ''License Requirements'' section identify items that could be of significance for nuclear explosive purposes and are therefore subject to licensing requirements under this part and under section 309(c) of the Nuclear Non-Proliferation Act of 1978. These items are referred to as ''The Nuclear Referral

List'' and are subject to the following licensing requirements:

(1) If NP Column 1 of the Country Chart (supplement no. 1 to part 738 of the EAR) is indicated in the appropriate ECCN, a license is required to all destinations, except those Nuclear Suppliers Group (NSG) member countries that are listed under Country Group A:4 in supplement no. 1 to part 740 of the EAR.

(2) If NP Column 2 of the Country Chart (supplement no. 1 to part 738 of the EAR) is indicated in the applicable ECCN, a license is required to Country Group D:2 (see supplement no. 1 to part 740 of the EAR).

(3) Other nuclear-related license requirements are described in §§ 744.2 and 744.5 of the EAR.

(b) *Licensing policy*. (1) To implement the controls in paragraph (a) of this section, the following factors are among those used to determine what action should be taken on individual applications:

(i) Whether the items to be transferred are appropriate for the stated end-use and whether that stated end-use is appropriate for the end-user;

(ii) The significance for nuclear purposes of the particular item;

(iii) Whether the items to be exported or reexported are to be used in research on, or for the development, design, manufacture, construction, operation, or maintenance of, any reprocessing or enrichment facility;

(iv) The types of assurances or guarantees given against use for nuclear explosive purposes or proliferation in the particular case;

(v) Whether any party to the transaction has been engaged in clandestine or illegal procurement activities;

(vi) Whether an application for a license to export or reexport to the end-user has previously been denied, or whether the end-user has previously diverted items received under a general license, a License Exception, or a validated license to unauthorized activities;

(vii) Whether the export or reexport would present an unacceptable risk of diversion to a nuclear explosive activity or unsafeguarded nuclear fuel-cycle activity described in § 744.2(a) of the EAR;

(viii) The nonproliferation credentials of the importing country, based on consideration of the following factors:

(A) Whether the importing country is a party to the Nuclear Non-Proliferation Treaty (NPT) or to the Treaty for the Prohibition of Nuclear Weapons in Latin America (Treaty of Tlatelolco) or to a similar international legally-binding nuclear nonproliferation agreement;

(B) Whether the importing country has all of its nuclear activities, facilities, or installations that are operational, being designed, or under construction under International Atomic Energy Agency (IAEA) safeguards or equivalent full scope safeguards;

(C) Whether there is an agreement for cooperation in the civil uses of atomic energy between the U.S. and the importing country;

(D) Whether the actions, statements, and policies of the government of the importing country are in support of nuclear nonproliferation and whether that government is in compliance with its international obligations in the field of non-proliferation;

(E) The degree to which the government of the importing country cooperates in non-proliferation policy generally (e.g., willingness to consult on international nonproliferation issues); and

(F) Information on the importing country's nuclear intentions and activities; and

(ix) Whether the recipient state has sufficient national export controls (as described in paragraph 3 of United Nations Security Council Resolution 1540 (2004)) to prevent an unacceptable risk of retransfer or diversion to a nuclear explosive activity or unsafeguarded nuclear fuel-cycle activity described in § 744.2(a) of the EAR.

(2) In addition, BIS will review license applications in accordance with the licensing policy described in paragraph (b) of this section for items *not* on the Nuclear Referral List that:

(i) Require a license on the CCL for reasons other than ''short supply;'' and

(ii) Are intended for a nuclear related end-use or end-user.

(3) For the People's Republic of China, the general licensing policy for

applications for those items that would make a direct and significant contribution to nuclear weapons and their delivery systems is extended review or denial.

(4) License applications for items described in paragraph (a) of this section, when destined to the People's Republic of China or Russia, will be reviewed in accordance with the licensing policies in both paragraph (b) of this section and § 742.4(b)(7).

(c) *Contract sanctity*. Contract sanctity provisions are not available for license applications reviewed under this section.

(d) *Nuclear Suppliers Group*. Most items on the Nuclear Referral List that require a license under NP Column No. 1 on the Country Chart (see supplement no. 1 to part 738 of the EAR) are contained in the Annex to the ''Guidelines for Transfers of Nuclear-Related Dual-Use Equipment, Material, and Related Technology'' (the Annex), as published by the International Atomic Energy Agency in INFCIRC/254/Revision 1/Part 2. The adherents to INFCIRC/254/Revision 1/Part 2, which includes the Nuclear Suppliers Guidelines, have agreed to establish export licensing procedures for the transfer of items identified in the Annex. Items that are listed as requiring a license under NP Column No. 2 on the Country Chart (see supplement no. 1 to part 738 of the EAR) are not included in the Annex and are controlled only by the United States.

[61 FR 12786, Mar. 25, 1996, as amended at 70 FR 51252, Aug. 30, 2005; 72 FR 33656, June 19, 2007; 76 FR 4231, Jan. 25, 2011; 79 FR 46324, Aug. 7, 2014; 81 FR 94967, Dec. 27, 2016]

§ 742.4 National security.

(a) *License requirements*. It is the policy of the United States to restrict the export and reexport of items that would make a significant contribution to the military potential of any other country or combination of countries that would prove detrimental to the national security of the United States. Accordingly, a license is required for exports and reexports to all destinations, except Canada, for all items in ECCNs on the CCL that include NS Column 1 in the Country Chart column of the ''License Requirements'' section. A license is required to all destinations except those in Country Group A:1 (see supplement no. 1 to part 740 of the EAR), for all items in ECCNs on the CCL that include NS column 2 in the Commerce Country Chart column of the ''License Requirements'' section except those cameras in ECCN 6A003.b.4.b that have a focal plane array with 111,000 or fewer elements and a frame rate of 60 Hz or less. A license is required to all destinations except those in Country Group A:1 (see supplement no. 1 to part 740) for those cameras in ECCN 6A003.b.4.b that have a focal plane array with 111,000 or fewer elements and a frame rate of 60 Hz or less and for cameras being exported or reexported pursuant to an authorization described in § 742.6(a)(2)(iii) or (v) of the EAR. The purpose of the controls is to ensure that these items do not make a contribution to the military potential of countries in Country Group D:1 (see supplement no. 1 to part 740 of the EAR) that would prove detrimental to the national security of the United States. License Exception GBS is available for the export and reexport of certain national security controlled items to Country Group B (see § 740.4 and supplement no. 1 to part 740 of the EAR).

(b) *Licensing policy*. (1)(i) The policy for national security controlled items exported or reexported to any country except a country in Country Group D:1 (see supplement no. 1 to part 740 of the EAR) is to approve applications unless there is a significant risk that the items will be diverted to a country in Country Group D:1.

(ii) When destined to a country listed in Country Group D:5 in supplement no. 1 to part 740 of the EAR, however, items classified under 9x515 or ''600 series'' ECCNs will be reviewed consistent with United States arms embargo policies in § 126.1 of the ITAR.

(iii) When destined to the People's Republic of China or a country listed in Country Group E:1 in supplement no. 1 to part 740 of the EAR, items classified under any 9x515 ECCN will be subject to a policy of denial.

(2) Except for those countries described in paragraphs (b)(5) through (b)(7) of this section, the general policy for exports and reexports of items to Country Group D:1 (see supplement no.

1 to part 740 of the EAR) is to approve applications when BIS determines, on a case-by-case basis, that the items are for civilian use or would otherwise not make a significant contribution to the military potential of the country of destination that would prove detrimental to the national security of the United States.

(3) To permit such policy judgments to be made, each application is reviewed in the light of prevailing policies with full consideration of all aspects of the proposed transaction. The review generally includes:

(i) An analysis of the kinds and quantities of items to be shipped;

(ii) Their military or civilian uses;

(iii) The unrestricted availability abroad of the same or comparable items;

(iv) The country of destination;

(v) The ultimate end-users in the country of destination; and

(vi) The intended end-use.

(4) Although each proposed transaction is considered individually, items described in Advisory Notes on the Commerce Control List are more likely to be approved than others.

(5) In recognition of efforts made to adopt safeguard measures for exports and reexports, Kazakhstan and Mongolia are accorded enhanced favorable consideration licensing treatment.

(6) The general policy for Cambodia and Laos is to approve license applications when BIS determines, on a case-by-case basis, that the items are for an authorized use in Cambodia or Laos and are not likely to be diverted to another country or use contrary to the national security or foreign policy controls of the United States.

(7) For the People's Republic of China (PRC), there is a general policy of approval for license applications to export, reexport, or transfer items to civil end-uses. There is a presumption of denial for license applications to export, reexport or transfer items that would make a direct and significant contribution to the PRC's or Russia's military capabilities such as, but not limited to, the major weapons systems described in supplement no. 7 to part 742 of the EAR.

(c) *Contract sanctity*. Contract sanctity provisions are not available for license applications reviewed under this section.

(d) [Reserved]

[61 FR 12786, Mar. 25, 1996, as amended at 61 FR 64283, Dec. 4, 1996; 70 FR 67348, Nov. 7, 2005; 72 FR 33656, June 19, 2007; 74 FR 23946, May 22, 2009; 74 FR 68145, Dec. 23, 2009; 78 FR 22721, Apr. 16, 2013; 79 FR 27436, May 13, 2014; 79 FR 45679, Aug. 6, 2014; 79 FR 76873, Dec. 23, 2014; 80 FR 29443, May 21, 2015; 81 FR 94967, Dec. 27, 2016]

§ 742.5 Missile technology.

(a) *License requirements*. (1) In support of U.S. foreign policy to limit the proliferation of missiles, a license is required to export and reexport items related to the design, development, production, or use of missiles. These items are identified in ECCNs on the CCL as MT Column No. 1 in the Country Chart column of the ''License Requirements'' section. Licenses for these items are required to all destinations, except Canada, as indicated by MT Column 1 of the Country Chart (see supplement no. 1 to part 738 of the EAR).

(2) The term ''missiles'' is defined as rocket systems (including ballistic missile systems, space launch vehicles, and sounding rockets) and unmanned air vehicle systems (including cruise missile systems, target drones, and reconnaissance drones) capable of delivering at least 500 kilograms (kg) payload to a range of a least 300 kilometers (km). See § 746.3 of the EAR for definition of a ''ballistic missile'' to be exported or reexported to Iraq.

(b) *Licensing policy*. (1) Applications to export and reexport items identified in ECCNs on the CCL as MT Column No. 1 in the Country Chart column of the ''License Requirements'' section will be considered on a case-by-case basis to determine whether the export or reexport would make a material contribution to the proliferation of missiles. Applications for exports and reexports of such items contained in Category 7A or described by ECCN 9A101 on the CCL will be considered more favorably if such exports or reexports are determined to be destined to a manned aircraft, satellite, land vehicle, or marine vessel, in quantities appropriate for replacement parts for such applications. When an export or reexport is deemed to make a material

contribution to the proliferation of missiles, the license will be denied.

(2) The following factors are among those that will be considered in reviewing individual applications.

(i) The specific nature of the end-use;

(ii) The significance of the export and reexport in terms of its contribution to the design, development, production, or use of missiles;

(iii) The capabilities and objectives of the missile and space programs of the recipient country;

(iv) The nonproliferation credentials of the importing country;

(v) The types of assurances or guarantees against design, development, production, or use of missiles that are given in a particular case; and

(vi) The existence of a preexisting contract.

(3)(i) Consistent with the MTCR Annex *General Minimum Software Note,* MTCR Annex *General Technology Note* and § 750.7(c)(1)(x) of the EAR, the approval of any item controlled for MT reasons on a BIS license also authorizes the export, reexport, or transfer (in-country) to the same ultimate consignee(s) and end user(s) specified on the license of the minimum ''software,'' excluding source code, controlled for MT reasons that is required for the installation, operation, maintenance or repair of the item and the ''technology'' required for the installation, operation, maintenance, or repair of the item in order to ensure the item's safe operation as originally intended. The approval of any item controlled for MT reasons on a BIS license also authorizes the later export, reexport, or transfer (in-country) of ''software'' controlled for MT reasons intended to correct defects (bug fixes) in a previously legally exported item under a BIS license to the same ultimate consignee(s) and end user(s) specified on the license, provided that the capability and/or performance of the item are not otherwise enhanced. This MT licensing policy is implemented concurrent with § 750.7(c)(1)(x) because it applies to all MT licenses, except when a condition is placed on the license which excludes the use of § 750.7(c)(1)(x), as described in paragraph (b)(3)(ii) of this section.

(ii) Applicants are not required to identify or provide any support documentation for such minimum ''software'' or ''technology'' on a license application for MT controlled items because such minimum ''software'' or ''technology'' is authorized within the scope of the license, consistent with § 750.7(c)(1)(x). Applicants will be informed when such minimum ''software'' and/or ''technology'' in § 750.7(c)(1)(x) is excluded from the license by a BIS condition on the license, which will state the following: ''*This license does not authorize the export, reexport or transfer (in-country) of the minimum ''software'' and/or ''technology'' specified in paragraph (c)(1)(x) of § 750.7 (See paragraph (b)(3) of § 742.5).*''

NOTE TO PARAGRAPH (b)(3): License Exception TSU under § 740.13 of the EAR is available for the ECCNs controlled for MT reasons specified in paragraph (a)(5) in § 740.2, provided the software or technology is for an end use specified in that paragraph and meets the requirements of License Exception TSU. (See §§ 740.2(a)(5) and 740.13). The licensing policy in paragraph (b)(3) is only available for licensed exports (or reexports, or transfers (in-country)).

(4) *Controls on other items.* BIS will review license applications, in accordance with the licensing policy described in paragraph (b)(1) of this section, for items not described in paragraph (a) of this section that:

(i) Require a validated license for reasons other than short supply; and

(ii) Could be destined for the design, development, production, or use of missiles, or for a facility engaged in such activities.

(5) License applications for items described in paragraph (a) of this section, when destined for the People's Republic of China, will be reviewed in accordance with the licensing policies in both paragraph (b) of this section and § 742.4(b)(7).

(c) *Contract sanctity.* The following contract sanctity dates have been established:

(1) License applications for batch mixers specified in ECCN 1B117 involving contracts that were entered into prior to January 19, 1990, will be considered on a case-by-case basis.

(2) License applications subject to ECCN 1B115.b or .c that involve a contract entered into prior to March 7, 1991, will be considered on a case-by-case basis.

(3) Applicants who wish that a pre-existing contract be considered in reviewing their license applications must submit documentation sufficient to establish the existence of a contract.

(d) *Missile Technology Control Regime.* Missile Technology Control Regime (MTCR) members are listed in Country Group A:2 (see supplement no. 1 to part 740 of the EAR). Controls on items identified in paragraph (a) of this section are consistent with the list agreed to in the MTCR and included in the MTCR Annex.

[61 FR 12786, Mar. 25, 1996, as amended at 68 FR 16147, Apr. 2, 2003; 69 FR 46075, July 30, 2004; 72 FR 33656, June 19, 2007; 76 FR 4231, Jan. 25, 2011; 81 FR 19030, Apr. 4, 2016; 81 FR 76861, Nov. 4, 2016]

§ 742.6 Regional stability.

(a) *License requirements.* The following controls are maintained in support of U.S. foreign policy to maintain regional stability:

(1) *RS Column 1 license requirements in general.* A license is required for exports and reexports to all destinations, except Canada, for all items in ECCNs on the CCL that include RS Column 1 in the Country Chart column of the ''License Requirements'' section. Transactions described in paragraphs (a)(2) or (3) of this section are subject to the RS Column 1 license requirements set forth in those paragraphs rather than the license requirements set forth in this paragraph (a)(1).

(2) *Special RS Column 1 license requirements applicable to certain thermal imaging cameras.* (i) As indicated in the CCL and in RS Column 1 of the Commerce Country Chart, cameras described in 6A003 b.4.b require a license to all destinations other than Canada if such cameras have a frame rate greater than 60 Hz.

(ii) Except as noted in paragraph (a)(2)(iii) of this section, as indicated in the CCL and in RS Column 1 of the Commerce Country Chart, cameras described in 6A003 b.4.b require a license to all destinations other than Canada if such cameras incorporate a focal plane array with more than 111,000 elements and a frame rate of 60 Hz or less, or cameras described in 6A003 b.4.b that are being exported or reexported to be embedded in a civil product.

(iii) BIS may issue licenses for cameras subject to the license requirement of paragraph (a)(2)(ii) of this section that are fully-packaged for use as consumer-ready civil products that, in addition to the specific transactions authorized by such license, authorize exports and reexports of such cameras without a license to any civil end-user to whom such exports or reexport are not otherwise prohibited by U.S. law in a destination in Country Group A:1 (see supplement no. 1 to part 740 of the EAR). The license requirements of this paragraph (a)(2) shall not apply to exports or reexports so authorized. In this paragraph, the term ''civil end-user'' means any entity that is not a national armed service (army, navy, marine, air force, or coast guard), national guard, national police, government intelligence organization or government reconnaissance organization, or any person or entity whose actions or functions are intended to support ''military end-uses'' as defined in §744.17(d) of the EAR.

(iv) Except as noted in paragraph (a)(2)(v) of this section, as indicated in the CCL and in RS Column 1 of the Commerce Country Chart, cameras described in 6A003 b.4.b require a license to all destinations other than Canada if such cameras incorporate a focal plane array with 111,000 elements or less and a frame rate of 60 Hz or less and are being exported or reexported to be embedded in a civil product.

(v) BIS may also issue licenses for the cameras described in paragraph (a)(2)(iv) of this section that, in addition to the specific transactions authorized by such license, authorize exports and reexports to authorized companies described in the license for the purpose of embedding such cameras into a completed product that will be distributed only in countries in Country Group A:1 (see supplement no. 1 to part 740 of the EAR). The license requirements of this paragraph (a)(2) shall not apply to exports or reexports so authorized. In this paragraph, the term ''authorized companies'' means

companies that have been previously licensed for export, are not the subject of relevant negative intelligence or open source information, have not been the subject of a Department of Commerce or Department of State enforcement action within the past two years, have demonstrable production capacity, and do not pose an unacceptable risk of diversion.

(3) *Special RS Column 1 license requirement applicable to military commodities.* A license is required for reexports to all destinations except Canada for items classified under ECCN 0A919 except when such items are being reexported as part of a military deployment by a unit of the government of a country in Country Group A:1 (see supplement no. 1 to part 740 of the EAR) or the United States.

(4) *RS Column 2 license requirements*—(i) *License requirements applicable to most RS Column 2 items.* As indicated in the CCL and in RS Column 2 of the Commerce Country Chart (see supplement no. 1 to part 738 of the EAR), a license is required to any destination except those in Country Group A:1 (see supplement no. 1 to part 740 of the EAR) and India for all items in ECCNs on the CCL that include RS Column 2 in the Country Chart column of the ''License Requirements'' section. A license continues to be required for items controlled under ECCNs 6A003.b.4.b and 9A515.e for RS Column 2 reasons when destined to India.

(ii) *Special RS Column 2 license requirements applicable only to certain cameras.* As indicated by the CCL, and RS column 2 and footnote number 4 to the Commerce Country Chart, a license is required to any destination except a country in Country Group A:1 (see supplement no. 1 to part 740 of the EAR) for fully-packaged thermal imaging cameras for use as consumer-ready civil products controlled by 6A003.b.4.b when incorporating ''focal plane arrays'' that have not more than 111,000 elements and a frame rate of 60Hz or less and that are not being exported or reexported to be embedded in a civil product.

(5) *RS requirements that apply to Iraq.* As indicated on the CCL, a license is required for the export or reexport to Iraq or transfer within Iraq of the following items controlled for RS reasons on the CCL: 0B999, 0D999, 1B999, 1C992, 1C995, 1C997, 1C999 and 6A992. The Commerce Country Chart is not designed to determine RS licensing requirements for these ECCNs.

(6) *RS requirement that applies to Hong Kong.* A license is required to export or reexport to Hong Kong any item controlled in ECCN 6A003.b.4.b

(7) *RS Column 1 license requirements and related policies for ECCN 0Y521 items*—(i) *Scope.* This paragraph (a)(7) supplements the information in the 0Y521 ECCNs and in supplement no. 5 to part 774 (Items Classified Under ECCNs 0A521, 0B521, 0C521, 0D521 and 0E521). This paragraph alerts exporters, reexporters and transferors to the procedures that apply to items classified under the 0Y521 ECCNs.

(ii) *0Y521 Items.* Items subject to the EAR that are not listed elsewhere in the CCL, but which the Department of Commerce, with the concurrence of the Departments of Defense and State, has determined should be controlled for export because the items provide at least a significant military or intelligence advantage to the United States or for foreign policy reasons are classified under ECCNs 0A521, 0B521, 0C521, 0D521 and 0E521. These items are typically emerging technologies (including emerging commodities, software and technology) that are not yet included in the CCL, so such items are listed on the CCL in 0Y521 ECCNs while the U.S. Government determines whether classification under a revised or new ECCN, or an EAR 99 designation, is appropriate. The list of items classified under a 0Y521 ECCN is limited to those listed in supplement no. 5 to part 774.

(iii) *Requirement to be classified under another ECCN within one calendar year of classification under ECCN 0Y521.* Items classified under an ECCN 0Y521 entry must be re-classified under another ECCN within one calendar year from the date they are listed in supplement no. 5 to part 774 of the EAR. If such re-classification does not occur within that period, classification under an ECCN 0Y521 entry expires, and such items are designated as EAR99 items unless either the CCL is amended to impose a control on such items under

another ECCN or the ECCN 0Y521 classification is extended. BIS may extend an item's ECCN 0Y521 classification for two one-year periods, provided that the U.S. Government has submitted a proposal to the relevant multilateral regime(s) to obtain multilateral controls over the item. Further extension beyond three years may occur only if the Under Secretary for Industry and Security makes a determination that such extension is in the national security or foreign policy interests of the United States. Any extension or re-extension of control of an ECCN 0Y521 item, including the determination by the Under Secretary, shall be published in the FEDERAL REGISTER.

(b) *Licensing policy*—(1) *Licensing policy for RS Column 1 items.* (i) Applications for exports and reexports of 9x515 and ''600 series'' items will be reviewed on a case-by-case basis to determine whether the transaction is contrary to the national security or foreign policy interests of the United States, including the foreign policy interest of promoting the observance of human rights throughout the world. Other applications for exports and reexports described in paragraph (a)(1), (2), (6), or (7) of this section will be reviewed on a case-by-case basis to determine whether the export or reexport could contribute directly or indirectly to any country's military capabilities in a manner that would alter or destabilize a region's military balance contrary to the foreign policy interests of the United States. Applications for reexports of items described in paragraph (a)(3) of this section will be reviewed applying the policies for similar commodities that are subject to the ITAR. Applications for export or reexport of items classified under any 9x515 or ''600 series'' ECCN requiring a license in accordance with paragraph (a)(1) of this section will also be reviewed consistent with United States arms embargo policies in § 126.1 of the ITAR if destined to a country set forth in Country Group D:5 in supplement no. 1 to part 740 of the EAR. Applications for export or reexport of ''parts,'' ''components,'' ''accessories,'' ''attachments,'' ''software,'' or ''technology'' ''specially designed'' or otherwise required for the F–14 aircraft will generally be denied. When destined to the People's Republic of China or a country listed in Country Group E:1 in supplement no. 1 to part 740 of the EAR, items classified under any 9x515 ECCN will be subject to a policy of denial.

(ii) Applications for exports and reexports to a country listed in Country Group D:5 (in supplement no. 1 to part 740 of the EAR) of technology controlled under 6E001 for the development of focal plane arrays or image intensifier tubes described in 6A002, technology controlled under 6E002 for the production of focal plane arrays or image intensifier tubes described in 6A002, or technology controlled under 6E990 will be reviewed with a presumption of denial.

(2) *Licensing policy for RS Column 2 items.* (i) Except as described in paragraph (b)(2)(ii), applications to export and reexport commodities described in paragraph (a)(4) of this section will generally be considered favorably on a case-by-case basis unless there is evidence that the export or reexport would contribute significantly to the destabilization of the region to which the equipment is destined.

(ii) Applications to export and reexport items controlled under ECCNs 2A984, 2D984 and 2E984 will be reviewed under a presumption of approval when exported or reexported to Austria, Cyprus, Finland, Ireland, Israel, Malta, Mexico, Singapore or Sweden, provided the items to be exported or reexported are being made to a government end-user or to a person designated by the government end-user pursuant to contract. License applications to export to a designated person must include a statement from the government end-user that the person is so designated. See supplement no. 2 to part 748, paragraph (k)(2).

(3) For terrorist-designated countries, the applicable licensing policies are found in parts 742 and 746 of the EAR.

(4) See § 746.3(b) of the EAR for the applicable licensing policies for items controlled for RS reasons to Iraq.

(c)(1) *Contract sanctity date:* March 21, 2003. This contract sanctity date applies only to items controlled under ECCNs 2A983, 2D983 and 2E983 destined for countries not listed in Country

Group E (supplement 1 to part 740). See parts 742 and 746 for the contract sanctity requirements applicable to exports and reexports to countries listed in Country Group E.

(2) *Contract sanctity date:* March 19, 2010. This contract sanctity date applies only to items controlled under ECCNs 2A984, 2D984 and 2E984 destined for countries not listed in Country Group E (supplement 1 to part 740). See parts 742 and 746 for the contract sanctity requirements applicable to exports and reexports to countries listed in Country Group E.

(d) *U.S. controls.* Although the United States seeks cooperation from like-minded countries in maintaining regional stability controls, at this time these controls are maintained only by the United States.

[61 FR 12786, Mar. 25, 1996]

EDITORIAL NOTE: For FEDERAL REGISTER citations affecting § 742.6, see the List of CFR Sections Affected, which appears in the Finding Aids section of the printed volume and at *www.fdsys.gov*.

§ 742.7 Crime control and detection.

(a) *License requirements.* In support of U.S. foreign policy to promote the observance of human rights throughout the world, a license is required to export and reexport crime control and detection equipment, related technology and software as follows:

(1) Crime control and detection instruments and equipment and related technology and software identified in the appropriate ECCNs on the CCL under CC Column 1 in the Country Chart column of the ''License Requirements'' section. A license is required to countries listed in CC Column 1 (supplement no. 1 to part 738 of the EAR). Items affected by this requirement are identified on the CCL under the following ECCNs: 0A978, 0A979, 0A984, 0A987, 0E984, 1A984, 1A985, 3A980, 3A981, 3D980, 3E980, 4A003 (for fingerprint computers only), 4A980, 4D001 (for fingerprint computers only), 4D980, 4E001 (for fingerprint computers only), 4E980, 6A002 (for police-model infrared viewers only), 6E001 (for police-model infrared viewers only), 6E002 (for police-model infrared viewers only), and 9A980.

(2) Shotguns with a barrel length greater than or equal to 24 inches, identified in ECCN 0A984 on the CCL under CC Column 2 in the Country Chart column of the ''License Requirements'' section regardless of end-user to countries listed in CC Column 2 (supplement no. 1 part 738 of the EAR).

(3) Shotguns with barrel length greater than or equal to 24 inches, identified in ECCN 0A984 on the CCL under CC Column 3 in the Country Chart column of the ''License Requirements'' section only if for sale or resale to police or law enforcement entities in countries listed in CC Column 3 (supplement no. 1 part 738 of the EAR).

(4) Certain crime control items require a license to all destinations, except Canada. These items are identified under ECCNs 0A982, 0A985, and 0E982. Controls for these items appear in each ECCN; a column specific to these controls does not appear in the Country Chart (supplement no. 1 to part 738 of the EAR).

(5) Items designed for the execution of human beings as identified in ECCN 0A981 require a license to all destinations including Canada.

(6) See § 742.11 of the EAR for further information on items controlled under ECCN 0A983, which require a license to all destinations, including Canada.

(b) *Licensing policy.* Applications for items controlled under this section will generally be considered favorably on a case-by-case basis unless there is civil disorder in the country or region or unless there is evidence that the government of the importing country may have violated internationally recognized human rights. The judicious use of export controls is intended to deter the development of a consistent pattern of human rights abuses, distance the United States from such abuses and avoid contributing to civil disorder in a country or region.

(c) *Contract sanctity.* Contract sanctity date: August 22, 2000. Contract sanctity applies only to items controlled under ECCNs 0A982, 0A985 and 0E982 destined for countries not listed in CC Column 1 of the Country Chart (supplement no. 1 to part 738 of the EAR).

(d) *U.S. controls.* In maintaining its controls on crime control and detection items, the United States considers international norms regarding human rights and the practices of other countries that control exports to promote the observance of human rights. However, these controls are not based on the decisions of any multinational export control regime and may differ from controls imposed by other countries.

[65 FR 55178, Sept. 13, 2000, as amended at 75 FR 41082, July 15, 2010]

§ 742.8 Anti-terrorism: Iran.

(a) *License requirements.* (1) A license is required for anti-terrorism purposes to export or reexport to Iran any item for which AT column 1 or AT column 2 is indicated in the Country Chart column of the applicable ECCN or any item described in ECCNs 1C350, 1C355, 1C395, 2A994, 2D994 and 2E994. See paragraph (a)(5) of this section for controls maintained by the Department of the Treasury. See § 746.7 of the EAR for additional EAR license requirements that apply to Iran.

(2) [Reserved]

(3) The Secretary of State has designated Iran as a country whose Government has repeatedly provided support for acts of international terrorism.

(4) In support of U.S. foreign policy applicable to terrorism-supporting countries, the EAR imposes anti-terrorism license requirements on exports and reexports to Iran pursuant to sections 6(j) and 6(a) of the Export Administration Act.

(i) *Section 6(j) anti-terrorism controls.* Section 6(j) requirements apply to all exports and reexports destined to the police, military or other sensitive end-users of items listed on the Commerce Control List (supp. no. 1 to part 774 of the EAR) for which any listed reason for control in the applicable ECCN is NS (national security), CB (chemical or biological weapons proliferation), MT (missile proliferation), NP (nuclear weapons proliferation) or an Export Control Classification Number ending in ''18'' (military related items). BIS may not issue a license for a transaction subject to section 6(j) controls until 30 days after the notification described in Section 6(j)(2) of the Export Administration Act is delivered to the committees of Congress specified in that section. License applications for all other items controlled under section 6(a) are also reviewed to determine whether section 6(j) applies.

(ii) *Section 6(a) anti-terrorism controls.* Section 6(a) requirements apply to all exports and reexports regardless of the end user of items described in paragraph (a)(1) of this section.

(5) Exports and certain reexports to Iran are subject to a comprehensive embargo administered by the Department of the Treasury's Office of Foreign Assets Control (OFAC). If you wish to export or reexport to Iran, the Government of Iran or any entity owned or controlled by that Government, you should review part 746 of the EAR and consult with OFAC. Please note that authorization from OFAC constitutes authorization under the EAR and no separate license or authorization from BIS is required.

(b) *Licensing policy.* (1) The Iran-Iraq Arms Non-Proliferation Act of October 23, 1992, requires BIS to deny licenses for items controlled to Iran for national security (section 5 of the 1979 EAA) or foreign policy reasons (section 6 of the 1979 EAA), absent contract sanctity or a Presidential waiver. License applications for which contract sanctity is established may be considered under policies in effect prior to the enactment of that Act. Otherwise, licenses for such items to Iran are subject to a general policy of denial.

(2) License applications for items controlled under section 6(a) of the EAA will also be reviewed to determine whether requirements of section 6(j) apply. Whenever the Secretary of State determines that an export or reexport could make a significant contribution to the military potential of Iran, including its military logistics capability, or could enhance Iran's ability to support acts of international terrorism, the Secretaries of State and Commerce will notify the Congress 30 days prior to the issuance of a license.

(c) *Contract Sanctity.* Section 6(f) of the Export Administration Act requires that a report be delivered to Congress before foreign policy based export controls are imposed, expanded

or extended. Consistent with section 6(p) of the Export Administration Act, certain exports or reexports in fulfillment of contracts entered into before such delivery of the report applicable to a particular license requirement or licensing policy may be subject to the license requirements and licensing policy that were in force before the report was delivered. License applicants who wish to have their application considered under such pre-existing requirements or policy must include evidence of the pre-existing contract with their license applications.

(d) *U.S. controls.* Although the United States seeks cooperation from like-minded countries in maintaining anti-terrorism controls, at this time these controls are maintained only by the United States.

[61 FR 12786, Mar. 25, 1996, as amended at 63 FR 42228, Aug. 7, 1998; 64 FR 27142, May 18, 1999; 65 FR 34075, May 26, 2000; 66 FR 36682, July 12, 2001; 68 FR 16212, Apr. 3, 2003; 74 FR 2356, Jan. 15, 2009]

§ 742.9 Anti-terrorism: Syria.

(a) *License requirements.* (1) If AT Column 1 of the Country Chart (supplement no. 1 to part 738 of the EAR) is indicated in the appropriate ECCN, a license is required for export and reexport to Syria for anti-terrorism purposes.

(2) The Secretary of State has designated Syria as a country whose government has repeatedly provided support for acts of international terrorism.

(3) In support of U.S. foreign policy against terrorism, BIS maintains two types of anti-terrorism controls on the export and reexport to Syria of items described in supplement no. 2 to part 742.

(i) Items described in paragraphs (c)(1) through (c)(5) of supplement no. 2 to part 742, if destined to military, police, intelligence or other end-users in Syria, are controlled under section 6(j) of the Export Administration Act, as amended (EAA).

(ii) Items listed in paragraphs (c)(1) through (c)(5) of supplement no. 2 to part 742 destined to other end-users in Syria, as well as items to all end-users listed in (c)(6) through (c)(8), (c)(10) through (c)(14), (c)(16) through (c)(19), and (c)(22) through (c)(44) of supplement no. 2 to part 742, are controlled to Syria under section 6(a) of the EAA.

(b) *Licensing policy.* (1) Applications for export and reexport to all end-users in Syria of the following items will generally be denied:

(i) Items that are controlled for chemical and biological weapons proliferation reasons to any destination. These are items that contain CB Column 1, CB Column 2, or CB Column 3 in the Country Chart column of the ''License Requirements'' section of an ECCN on the CCL.

(ii) Military-related items controlled for national security reasons to any destination. These are items that contain NS Column 1 in the Country Chart column of the ''License Requirements'' section in an ECCN on the CCL and are controlled by equipment or material entries ending in the number ''18.''

(iii) Items that are controlled for missile proliferation reasons to any destination. These are items that have an MT Column 1 in the Country Chart column of the ''License Requirements'' section of an ECCN on the CCL.

(iv) All aircraft (powered and unpowered), helicopters, engines, and related spare parts and components, except that parts and components intended to ensure the safety of civil aviation and the safe operation of commercial passenger aircraft will be reviewed on a case-by-case basis, with a presumption of approval. These are items controlled to any destination for national security and missile technology reasons and items controlled to Syria for anti-terrorism purposes. Such items contain an NS Column 1, NS Column 2, MT Column 1, or AT Column 1 in the Country Chart column of the ''License Requirements'' section of an ECCN on the CCL. Note that, consistent with the general rule that applies to computing U.S. parts and components content incorporated into foreign made products, all aircraft-related items that require a license to Syria will be included as controlled U.S. content, except for ECCNs 6A998, 7A994, and 9A991.d, for purposes of such licensing requirements.

(v) Cryptographic, cryptoanalytic, and cryptologic items controlled to any destination for national security

reasons. Such items contain an AT Column 1 and an NS Column 1 or NS Column 2 in the Country Chart column of the ''License Requirements'' section of an ECCN on the CCL.

(vi) Explosives detection equipment controlled under ECCN 2A983.

(vii) ''Software'' (ECCN 2D983) specially designed or modified for the ''development'', ''production'' or ''use'' of explosives detection equipment controlled by 2A983.

(viii) ''Technology'' (ECCN 2E983) specially designed or modified for the ''development'', ''production'' or ''use'' of explosives detection equipment controlled by 2A983.

(ix) Commercial charges and devices controlled under ECCN 1C992.

(x) Ammonium nitrate, including certain fertilizers containing ammonium nitrate, controlled under ECCN 1C997.

(xi) Technology for the production of Chemical Weapons Convention (CWC) Schedule 2 and 3 chemicals controlled under ECCN 1E355.

(xii) Concealed object detection equipment controlled under ECCN 2A984.

(xiii) ''Software'' (ECCN 2D984) ''required'' for the ''development'', ''production'' or ''use'' of concealed object detection equipment controlled by 2A984.

(xiv) ''Technology'' (ECCN 2E984) ''required'' for the ''development'', ''production'' or ''use'' of concealed object detection equipment controlled by 2A984, or the ''development'' of ''software'' controlled by 2D984.

(2) Applications for export and reexport to Syria of all other items described in paragraph (a) of this section, and not described by paragraph (b)(1) of this section, will generally be denied if the export or reexport is destined to a military end-user or for military end-use. Applications for non-military end-users or for non-military end-uses will be considered on a case-by-case basis.

(3) Notwithstanding the provisions of paragraphs (b)(1) and (b)(2), of this section, applications for Syria will be considered on a case-by-case basis if:

(i) The transaction involves the reexport to Syria of items where Syria was not the intended ultimate destination at the time of original export from the United States, provided that the exports from the U.S. occurred prior to the applicable contract sanctity date (or, where the contract sanctity date is December 16, 1986, prior to June 18, 1987).

(ii) The U.S. content of foreign-produced commodities is 20% or less by value; or

(iii) The commodities are medical items.

NOTE TO PARAGRAPH (b) OF THIS SECTION: Applicants who wish any of the factors described in paragraph (b) of this section to be considered in reviewing their license applications must submit adequate documentation demonstrating the value of the U.S. content, the specifications and medical use of the equipment, or the date of export from the United States.

(4) License applications for items reviewed under 6(a) controls will also be reviewed to determine the applicability of 6(j) controls to the transaction. When it is determined that an export or reexport could make a significant contribution to the military potential of Syria, including its military logistics capability, or could enhance Syria's ability to support acts of international terrorism, the Secretaries of State and Commerce will notify the Congress 30 days prior to issuance of a license.

(c) *Contract sanctity*. Contract sanctity dates and related licensing policies for Syria are set forth in supplement no. 2 to part 742. Applicants who wish a pre-existing contract to be considered must submit sufficient documentation to establish the existence of a contract.

(d) *U.S. controls*. Although the United States seeks cooperation from like-minded countries in maintaining anti-terrorism controls, at this time these controls are maintained only by the United States.

(e) Section 746.9 (Syria) of the EAR sets forth the export and reexport controls for Syria. Section 746.9 supersedes the provisions of paragraphs (a) through (d) of this section.

[61 FR 12786, Mar. 25, 1996, as amended at 62 FR 25459, May 9, 1997; 63 FR 42228, Aug. 7, 1998; 64 FR 27142, May 18, 1999; 64 FR 47667, Sept. 1, 1999; 64 FR 50248, Sept. 16, 1999; 66 FR 36682, July 12, 2001; 68 FR 16212, Apr. 3, 2003; 71 FR 9442, Feb. 24, 2006; 75 FR 14340, Mar. 25, 2010; 76 FR 77117, Dec. 12, 2011; 78 FR 13469, Feb. 28, 2013]

§ 742.10 Anti-terrorism: Sudan.

(a) *License requirements.* (1) If AT column 1 or AT column 2[1] of the Country Chart (supplement no. 1 to part 738 of the EAR) is indicated in the appropriate ECCN, a license is required for export to Sudan for anti-terrorism purposes.

(2) If AT column 1 or AT column 2 of the Commerce Country Chart (supplement no. 1 to part 738 of the EAR) is indicated in the appropriate ECCN, a license is required for *reexport* to Sudan for anti-terrorism purposes, *except* for ECCNs 2A994, 3A992.a, 5A991.g, 5A992.c, 5D992.c, 6A991, 6A998, 7A994, 8A992.d, .e, .f, and .g, 9A990.a and .b, and 9A991.d and .e. In addition, items in these ECCNs are not counted as controlled U.S. content for the purpose of determining license requirements for U.S. parts, components or materials incorporated into foreign made products. However, the export from the United States to any destination with knowledge that they will be reexported directly or indirectly, in whole or in part to Sudan is prohibited without a license.

(3) The Secretary of State has designated Sudan as a country whose government has repeatedly provided support for acts of international terrorism.

(4) In support of U.S. foreign policy against terrorism, BIS maintains anti-terrorism controls on the export and reexport to Sudan of items described in supplement no. 2 to part 742.

(i) Items described in paragraph (c)(1) through (c)(5) of supplement no. 2 to part 742 if destined to military, police, intelligence or other sensitive end-users in Sudan are controlled under section 6(j) of the Export Administration Act, as amended (EAA).

(ii) Items listed in paragraphs (c)(1) through (c)(5) of supplement no. 2 to part 742 destined to other end-users in Sudan, as well as items to all end-users listed in (c)(6) through (c)(14) and (c)(16) through (c)(44) of supplement no. 2 to part 742 are controlled to Sudan under section 6(a) of the EAA.

(b) *Licensing policy.* (1) Applications for export and reexport to all end-users in Sudan of the following items will generally be denied:

(i) Items that are controlled for chemical and biological weapons proliferation reasons to any destination. These are items that contain CB Column 1, CB Column 2, or CB Column 3 in the Country Chart column of the ''License Requirements'' section of an ECCN on the CCL.

(ii) Military-related items controlled for national security reasons to any destination. These are items that contain NS Column 1 in the Country Chart column of the ''License Requirements'' section in an ECCN on the CCL and are controlled by equipment or material entries ending in the number ''18.''

(iii) Items that are controlled for missile proliferation reasons to any destination. These are items that contain a MT Column 1 in the Country Chart column of the ''License Requirements'' section of an ECCN on the CCL.

(iv) All aircraft (powered and unpowered), helicopters, engines, and related spare parts and components. These are items controlled to any destination for national security reasons and items controlled to Sudan for anti-terrorism reasons. Such items contain an NS Column 1, NS Column 2, or AT Column 1 in the Country Chart column of the ''License Requirements'' section of an ECCN on the CCL. Note that, consistent with the general rule that applies to computing U.S. parts and components content incorporated in foreign made products, all aircraft-related items that require a license to Sudan will be included as controlled US content for purposes of such license requirements.

(v) Cryptographic, cryptoanalytic, and cryptologic items controlled to any destination. These are items that contain an NS Column 1, NS Column 2, AT Column 1 or AT Column 2 in the Country Chart column of the ''License Requirements'' section of an ECCN on the CCL.

(vi) Explosives detection equipment controlled under ECCN 2A983.

[1] AT column 1 refers to items controlled to Iran, Sudan, and Syria for anti-terrorism purposes. AT column 2 refers to additional items controlled to Iran and Sudan for anti-terrorism purposes. In addition, items included in ECCNs 2A994, 2D994 and 2E994 are controlled to Iran for anti-terrorism purposes.

(vii) ''Software'' (ECCN 2D983) specially designed or modified for the ''development'', ''production'' or ''use'' of explosives detection equipment controlled by 2A983.

(viii) ''Technology'' (ECCN 2E983) specially designed or modified for the ''development'', ''production'' or ''use'' of explosives detection equipment controlled by 2A983.

(ix) Commercial charges and devices controlled under ECCN 1C992.

(x) Technology for the production of Chemical Weapons Convention (CWC) Schedule 2 and 3 chemicals controlled under ECCN 1E355.

(xi) Ammonium nitrate, including certain fertilizers containing ammonium nitrate, controlled under ECCN 1C997.

(xii) Concealed object detection equipment controlled under ECCN 2A984.

(xiii) ''Software'' (ECCN 2D984) ''required'' for the ''development'', ''production'' or ''use'' of concealed object detection equipment controlled by 2A984.

(xiv) ''Technology'' (ECCN 2E984) ''required'' for the ''development'', ''production'' or ''use'' of concealed object detection equipment controlled by 2A984, or the ''development'' of ''software'' controlled by 2D984.

(2) Applications for the export and reexport of all other items described in paragraph (a) of this section, and not described in paragraph (b)(1) of this section, will be denied if the export or reexport is destined to a military end-user or for military end-use. Applications for non-military end-users or for non-military end-uses will be considered on a case-by-case basis.

(3) Notwithstanding the provisions of paragraphs (b)(1) and (b)(2) of this section, applications for Sudan will be considered on a case-by-case basis in the following four situations.

(i) The transaction involves the reexport to Sudan of items where Sudan was not the intended ultimate destination at the time of original export from the United States, provided that the exports from the U.S. occurred prior to the applicable contract sanctity date.

(ii) The U.S. content of foreign-produced commodities is 20% or less by value.

(iii) The commodities are medical items.

(iv) The items are telecommunications equipment and associated computers, software and technology for civil end use, including items useful for the development of civil telecommunications network infrastructure.

NOTE TO PARAGRAPH (b)(3) OF THIS SECTION: Applicants who wish any of the factors described in paragraph (b)(3) of this section to be considered in reviewing their license applications must submit adequate documentation demonstrating the appropriateness of the factor: *i.e.*, the date of export from the United States, the value of the U.S. content, the specifications and medical use of the equipment, or the specific civil end use of the item and any function the item will have in the development of civil telecommunications network infrastructure, as relevant to the factor for which consideration is sought.

(4) License applications for items reviewed under 6(a) controls will also be reviewed to determine the applicability of 6(j) controls to the transaction. When it is determined that an export or reexport could make a significant contribution to the military potential of Sudan, including its military logistics capability, or could enhance Sudan's ability to support acts of international terrorism, the appropriate committees of the Congress will be notified 30 days before issuance of a license to export or reexport such items.

(c) *Contract sanctity*. Contract sanctity dates and related licensing information for Sudan are set forth in supplement no. 2 to part 742. Applicants who wish a pre-existing contract to be considered must submit sufficient documentation to establish the existence of a contract.

(d) *U.S. controls*. Although the United States seeks cooperation from like-minded countries in maintaining anti-terrorism controls, at this time these controls are maintained only by the United States.

[61 FR 12786, Mar. 25, 1996, as amended at 63 FR 42228, Aug. 7, 1998; 64 FR 27142, May 18, 1999; 64 FR 47667, Sept. 1, 1999; 65 FR 14859, Mar. 20, 2000; 65 FR 34075, May 26, 2000; 66 FR 36682, July 12, 2001; 68 FR 16212, Apr. 3, 2003; 75 FR 14340, Mar. 25, 2010; 78 FR 13469, Feb. 28, 2013; 80 FR 8523, Feb. 18, 2015; 81 FR 64673, Sept. 20, 2016]

§ 742.11 Specially designed implements of torture, including thumbscrews, thumbcuffs, fingercuffs, spiked batons, and parts and accessories, n.e.s.

(a) *License Requirements*. In support of U.S. foreign policy to promote the observance of human rights throughout the world, a license is required to export any commodity controlled by ECCN 0A983 to all destinations including Canada.

(b) *Licensing policy*. Applications for such licenses will generally be denied to all destinations.

(c) *Contract sanctity*. The contract sanctity date is November 9, 1995. Contract sanctity will be a factor in considering only applications for export to the NATO countries, Japan, Australia, and New Zealand.

(d) *U.S. controls*. In maintaining its controls on specially designed instruments of torture the United States considers international norms regarding human rights and the practices of other countries that control exports to promote the observance of human rights. However, these controls are not based on the decisions of any multinational export control regime and may differ from controls imposed by other countries.

[61 FR 12786, Mar. 25, 1996, as amended at 72 FR 9849, Mar. 6, 2007; 75 FR 41082, July 15, 2010]

§ 742.12 [Reserved]

§ 742.13 Communications intercepting devices; software and technology for communications intercepting devices.

(a) *License requirement*. (1) In support of U.S. foreign policy to prohibit the export of items that may be used for the surreptitious interception of wire, oral, or electronic communications, a license is required for all destinations, including Canada, for ECCNs having an ''SL'' under the ''Reason for Control'' paragraph. These items include any electronic, mechanical, or other device primarily useful for the surreptitious interception of wire, oral, or electronic communications (ECCNs 5A001.f.1 and 5A980); and for related ''software'' primarily useful for the surreptitious interception of wire, oral, or electronic communications (ECCN 5D001.c and 5D980.a); and ''software'' primarily useful for the ''development'', ''production'', or ''use'' of devices controlled under ECCNs 5A001.f.1 and 5A980 (ECCNs 5D001.a and 5D980.b); and for ''technology'' primarily useful for the ''development'', ''production'', or ''use'' of items controlled by ECCNs 5A001.f.1, 5D001.a (for 5A001.f.1), 5A980 and 5D980 (ECCNs 5E001.a and 5E980); and for ''software'' primarily useful to support such ECCN 5E001.a ''development'', ''production'', or ''use'' ''technology'' for 5A001.f.1 equipment and certain 5D001.a ''software'' (ECCN 5D001.b). These licensing requirements do not supersede the requirements contained in the Omnibus Crime Control and Safe Streets Act of 1968, as amended (18 U.S.C. 2512). This license requirement is not reflected on the Commerce Country Chart (supplement no. 1 to part 738 of the EAR).

(2) ''Communications intercepting devices'' are electronic, mechanical, or other devices that can be used for interception of wire, oral, or electronic communications if their design renders them primarily useful for surreptitious listening even though they may also have innocent uses. A device is not restricted merely because it is small or may be adapted to wiretapping or eavesdropping. Some examples of devices to which these restrictions apply are: the martini olive transmitter; the infinity transmitter; the spike mike; and the disguised microphone appearing as a wristwatch, cufflink, or cigarette pack; etc. The restrictions do not apply to devices such as the parabolic microphone or other directional microphones ordinarily used by broadcasters at sports events, since these devices are not primarily useful for surreptitious listening.

(b) *Licensing policy*. (1) License applications, except for those applications for which a license is required for both SL and AT reasons, will generally be approved for exports or reexports requiring a license for SL reasons when the exporter or reexporter is:

(i) A provider of wire or electronic communication services or an officer, agent, or employee of, or person under contract with such a provider, in the

normal course of the business of providing that wire or electronic communication service; or

(ii) An officer, agent, or employee of, or a person under contract with, the United States, one of the 50 States, or a political subdivision thereof, when engaged in the normal course of government activities.

NOTE TO PARAGRAPH (b)(1): For SL reasons, license applications will generally be denied to countries that are subject to controls for AT reasons.

NOTE TO PARAGRAPH (b)(1)(i): The normal course of the business of providing a wire or electronic communications service includes any activity which is a necessary incident to the rendition of the service or to the protection of the rights and property of the provider of that service.

(2) Other license applications will generally be denied for exports or reexports requiring a license for SL reasons.

(c) *Contract sanctity*. Contract sanctity provisions are not available for license applications involving exports and reexports of communications interception devices.

(d) *U.S. controls*. Controls on items classified under ECCNs 5A980, 5D980, and 5E980 are maintained by the United States government for foreign policy purposes.

[61 FR 12786, Mar. 25, 1996, as amended at 71 FR 67036, Nov. 20, 2006; 77 FR 39368, July 2, 2012; 78 FR 37382, June 20, 2013]

§ 742.14 Significant items: hot section technology for the development, production or overhaul of commercial aircraft engines, components, and systems.

(a) *License requirement*. Licenses are required for all destinations, except Canada, for ECCNs having an ''SI'' under the ''Reason for Control'' paragraph. These items include hot section technology for the development, production or overhaul of commercial aircraft engines controlled under ECCN 9E003.a.1 through a.8, .h,.i and .j, and related controls.

(b) *Licensing policy*. Pursuant to section 6 of the Export Administration Act of 1979, as amended, foreign policy controls apply to technology required for the development, production or overhaul of commercial aircraft engines controlled by ECCN 9E003a.1 through a.8, .h,.i, and .j, and related controls. These controls supplement the national security controls that apply to these items. Applications for export and reexport to all destinations will be reviewed on a case-by-case basis to determine whether the export or reexport is consistent with U.S. national security and foreign policy interests. The following factors are among those that will be considered to determine what action will be taken on license applications:

(1) The country of destination;

(2) The ultimate end-user(s);

(3) The technology involved;

(4) The specific nature of the end-use(s); and

(5) The types of assurance against unauthorized use or diversion that are given in a particular case.

(c) *Contract sanctity*. Contract sanctity provisions are not available for license applications reviewed under this § 742.14.

(d) [Reserved]

[64 FR 13339, Mar. 18, 1999, as amended at 75 FR 36515, June 28, 2010; 75 FR 54276, Sept. 7, 2010; 76 FR 29619, May 20, 2011]

§ 742.15 Encryption items.

Encryption items can be used to maintain the secrecy of information, and thereby may be used by persons abroad to harm U.S. national security, foreign policy and law enforcement interests. The United States has a critical interest in ensuring that important and sensitive information of the public and private sector is protected. Consistent with our international obligations as a member of the Wassenaar Arrangement, the United States has a responsibility to maintain control over the export and reexport of encryption items. As the President indicated in Executive Order 13026 and in his Memorandum of November 15, 1996, exports and reexports of encryption software, like exports and reexports of encryption hardware, are controlled because of this functional capacity to encrypt information, and not because of any informational or theoretical value that such software may reflect, contain, or represent, or that its export or reexport may convey to others

abroad. For this reason, export controls on encryption software are distinguished from controls on other software regulated under the EAR.

(a) *Licensing requirements and policy*—(1) *Licensing requirements.* A license is required to export or reexport encryption items (''EI'') classified under ECCN 5A002, 5A004, 5D002.a, .c.1 or .d (for equipment and ''software'' in ECCNs 5A002 or 5A004, 5D002.c.1); or 5E002 for ''technology'' for the ''development,'' ''production,'' or ''use'' of commodities or ''software'' controlled for EI reasons in ECCNs 5A002, 5A004 or 5D002, and ''technology'' classified under 5E002.b to all destinations, except Canada. Refer to part 740 of the EAR, for license exceptions that apply to certain encryption items, and to § 772.1 of the EAR for definitions of encryption items and terms. Most encryption items may be exported under the provisions of License Exception ENC set forth in § 740.17 of the EAR. Following classification or self-classification, items that meet the criteria of Note 3 to Category 5—Part 2 of the Commerce Control List (the ''mass market'' note), are classified ECCN 5A992.c or 5D992.c and are no longer subject to this Section (see § 740.17 of the EAR). Before submitting a license application, please review License Exception ENC to determine whether this license exception is available for your item or transaction. For exports, reexports, or transfers (in-country) of encryption items that are not eligible for a license exception, you must submit an application to obtain authorization under a license or an Encryption Licensing Arrangement.

(2) *Licensing policy.* Applications will be reviewed on a case-by-case basis by BIS, in conjunction with other agencies, to determine whether the export, reexport, or transfer (in-country) is consistent with U.S. national security and foreign policy interests. Encryption Licensing Arrangements (ELAs) may be authorized for exports, reexports, or transfers (in-country) of unlimited quantities of encryption commodities and software described in § 740.17 (b)(2)(i)(A) that have been classified by BIS to ''more sensitive government end users,'' in all destinations, except countries listed in Country Groups E:1 or E:2 of supplement no. 1 to part 740. ELAs for ''more sensitive government end users'' may be authorized for encryption commodities and software described in § 740.17(b)(2)(ii) through (iv) under certain circumstances. ELAs are valid for four years and may require pre-shipment notification. Applicants seeking authorization for Encryption Licensing Arrangements must specify the sales territory on their license applications.

(b) *Publicly available encryption source code*—(1) *Scope and eligibility.* Subject to the notification requirements of paragraph (b)(2) of this section, publicly available (see § 734.3(b)(3) of the EAR) encryption source code classified under ECCN 5D002 is not subject to the EAR. Such source code is publicly available even if it is subject to an express agreement for the payment of a licensing fee or royalty for commercial production or sale of any product developed using the source code.

(2) *Notification requirement.* You must notify BIS and the ENC Encryption Request Coordinator via email of the Internet location (*e.g.*, URL or Internet address) of the publicly available encryption source code classified under ECCN 5D002 or provide each of them a copy of the publicly available encryption source code. If you update or modify the source code, you must also provide additional copies to each of them each time the cryptographic functionality of the source code is updated or modified. In addition, if you posted the source code on the Internet, you must notify BIS and the ENC Encryption Request Coordinator each time the Internet location is changed, but you are not required to notify them of updates or modifications made to the encryption source code at the previously notified location. In all instances, submit the notification or copy to *crypt@bis.doc.gov* and to *enc@nsa.gov*.

[73 FR 57507, Oct. 3, 2008, as amended at 75 FR 36494, June 25, 2010; 75 FR 43821, July 27, 2010; 76 FR 1063, Jan. 7, 2011; 76 FR 29619, May 20, 2011; 78 FR 13469, Feb. 28, 2013; 78 FR 37383, June 20, 2013; 81 FR 64673, Sept. 20, 2016]

§ 742.16 [Reserved]

§ 742.17 Exports of firearms to OAS member countries.

(a) *License requirements.* BIS maintains a licensing system for the export of shotguns and related items to all OAS member countries. This action is based on the Organization of American States (OAS) Model Regulations for the Control of the International Movement of Firearms, their Parts and Components and Munitions (OAS Model Regulations) which were developed to assist OAS member countries to implement the Inter-American Convention Against the Illicit Manufacturing of and Trafficking in Firearms, Ammunition, Explosives, and Other Related Materials (Firearms Convention).[2] Items subject to these controls are identified by ''FC Column 1'' in the ''License Requirements'' section of their Export Control Classification Number (ECCN) on the Commerce Control List (CCL). If ''FC Column 1'' of the Commerce Country Chart (supplement no. 1 to part 738 of the EAR) is indicated for a particular country, a license is required for export to that destination. Licenses will generally be issued on a Firearms Convention (FC) Import Certificate or equivalent official document, satisfactory to BIS, issued by the government of the importing OAS member country.

(b) *Licensing policy.* Applications supported by an FC Import Certificate or equivalent official document issued by the government of the importing country for such items will generally be approved, except there is a policy of denial for applications to export items linked to such activities as drug trafficking, terrorism, and transnational organized crime.

(c) *Contract sanctity.* Contract sanctity provisions are not available for license applications under this § 742.17.

(d) *OAS Model Regulations.* The OAS Model Regulations on which regulations are based are designed by OAS member countries to combat illicit manufacturing of and trafficking in firearms, ammunition, explosives, and other related materials in North and South America because of their links to such activities as drug trafficking, terrorism, and transnational organized crime.

(e) *OAS member countries to which firearms controls under this section apply.* The OAS member countries include: Antigua and Barbuda, Argentina, the Bahamas, Barbados, Belize, Bolivia, Brazil, Canada, Chile, Colombia, Costa Rica, Dominica, Dominican Republic, Ecuador, El Salvador, Grenada, Guatemala, Guyana, Haiti, Honduras, Jamaica, Mexico, Nicaragua, Panama, Paraguay, Peru, St. Kitts and Nevis, Saint Lucia, Saint Vincent and the Grenadines, Suriname, Trinidad and Tobago, the United States, Uruguay, and Venezuela.

(f) *Items/Commodities.* Items requiring a license under this section are ECCNs 0A984 (shotguns with a barrel length 18 inches or over and related parts, and buckshot shotgun shells), 0A986 (shotgun shells, and related parts) and 0A987 (optical sighting devices). (See supplement no. 1 to part 774 of the EAR.)

(g) *Validity period for licenses.* Although licenses generally will be valid for a period of four years, your ability to ship items that require an FC Import Certificate or equivalent official document under this section may be affected by the validity of the FC Import Certificate or equivalent official document (see § 748.12(d)(4) of the EAR).

[64 FR 17973, Apr. 13, 1999, as amended at 78 FR 13469, Feb. 28, 2013; 80 FR 13217, Mar. 13, 2015]

§ 742.18 Chemical Weapons Convention (CWC or Convention).

States that are parties to the Convention on the Prohibition of the Development, Production, Stockpiling and Use of Chemical Weapons and on Their Destruction, also known as the Chemical Weapons Convention (CWC or Convention), undertake never to develop, produce, acquire, stockpile, transfer, or use chemical weapons. As a State Party to the Convention, the United States is subjecting certain toxic chemicals and their precursors listed in Schedules within the Convention to trade restrictions. Trade restrictions include: a prohibition on the export of Schedule 1 chemicals to

[2] Status of Convention as of April 13, 1999 had not entered into force.

States not Party to the CWC; a prohibition on the reexport of Schedule 1 chemicals to all destinations (both States Parties to the CWC and States not Party to the CWC); license requirements for the export of Schedule 1 chemicals to all States Parties; a prohibition on the export of Schedule 2 chemicals to States not Party to the CWC; and an End-Use Certificate requirement for exports of Schedule 3 chemicals to States not Party to the CWC. Exports of CWC chemicals that do not require a license for CW reasons (e.g., exports and reexports of Schedule 2 and Schedule 3 chemicals to States Parties to the CWC) may require a license for other reasons set forth in the EAR. (*See*, in particular, the license requirements in § 742.2 of the EAR that apply to exports and reexports of precursor chemicals controlled by ECCN 1C350, for CB reasons. Also note the end-use and end-user restrictions in part 744 of the EAR and the restrictions that apply to embargoed countries in part 746 of the EAR.)

(a) *License requirements* (1) Schedule 1 chemicals and mixtures controlled under ECCN 1C351. A license is required for CW reasons to export or reexport Schedule 1 chemicals controlled under ECCN 1C351.d.11 or d.12 to all destinations including Canada. CW applies to 1C351.d.11 for ricin in the form of Ricinus Communis $Agglutinin_{II}$ (RCA_{II}), which is also known as ricin D or Ricinus Communis $Lectin_{III}$ (RCL_{III}), and Ricinus Communis $Lectin_{IV}$ (RCL_{IV}), which is also known as ricin E. CW applies to 1C351.d.12 for saxitoxin identified by C.A.S. #35523–89–8. (Note that the advance notification procedures and annual reporting requirements described in § 745.1 of the EAR also apply to exports of Schedule 1 chemicals.)

(2) *Schedule 2 and 3 chemicals and mixtures controlled under ECCN 1C350, ECCN 1C355, or ECCN 1C395*—(i) *States Parties to the CWC*. Neither a license nor an End-Use Certificate is required for CW reasons to export or reexport Schedule 2 or 3 chemicals and mixtures controlled under ECCN 1C350, ECCN 1C355, or ECCN 1C395 to States Parties to the CWC (destinations listed in supplement no. 2 to part 745 of the EAR).

(ii) *States not Party to the CWC*—(A) *Schedule 2 chemicals*. A license is required for CW reasons to export or reexport Schedule 2 chemicals and mixtures controlled under ECCN 1C350.b, ECCN 1C355.a, or ECCN 1C395 to States not Party to the CWC (destinations *not* listed in supplement no. 2 to part 745 of the EAR).

(B) *Schedule 3 chemicals*—(*1*) *Exports*. A license is required for CW reasons to export Schedule 3 chemicals and mixtures controlled under ECCN 1C350.c, ECCN 1C355.b, or ECCN 1C395.b to States not Party to the CWC (destinations *not* listed in supplement no. 2 to part 745 of the EAR), *unless* the exporter obtains from the consignee an End-Use Certificate (issued by the government of the importing country) prior to exporting the Schedule 3 chemicals and submits it to BIS in accordance with the procedures described in § 745.2 of the EAR. Note, however, that obtaining an End-Use Certificate does not relieve the exporter from the responsibility of complying with other license requirements set forth elsewhere in the EAR.

(*2*) *Reexports*—(*i*) *Reexports from States Parties to the CWC*. Neither a license nor an End-Use Certificate is required for CW reasons to reexport Schedule 3 chemicals and mixtures controlled under ECCN 1C350.c, ECCN 1C355.b, or ECCN 1C395.b from States Parties to the CWC (destinations listed in supplement no. 2 to part 745 of the EAR) to States not Party to the CWC. However, a license may be required for other reasons set forth elsewhere in the EAR. In addition, reexports of Schedule 3 chemicals may be subject to an End-Use Certificate requirement by governments of other countries when the chemicals are destined for States not Party to the CWC.

(*ii*) *Reexports from States not Party to the CWC*. A license is required for CW reasons to reexport Schedule 3 chemicals and mixtures controlled under ECCN 1C350.c, ECCN 1C355.b, or ECCN 1C395.b from a State not Party to the CWC (a destination *not* listed in supplement no. 2 to part 745 of the EAR) to any other State not Party to the CWC.

(C) *Technology controlled under ECCN 1E355*. A license is required for CW reasons to export or reexport technology

controlled under ECCN 1E355 to all States not Party to the CWC (destinations *not* listed in supplement no. 2 to part 745 of the EAR), except for Israel and Taiwan.

(b) *Licensing Policy*—(1) *Schedule 1 chemicals and mixtures*—(i) *Exports to States Parties to the CWC.* Applications to export Schedule 1 Chemicals controlled under ECCN 1C351.d.11 or .d.12 to States Parties to the CWC (destinations listed in supplement no. 2 to part 745 of the EAR) generally will be denied, unless all of the following conditions are met:

(A) The chemicals are destined only for purposes not prohibited under the CWC (*i.e.*, research, medical, pharmaceutical, or protective purposes);

(B) The types and quantities of chemicals are strictly limited to those that can be justified for those purposes;

(C) The Schedule 1 chemicals were not previously imported into the United States (this does not apply to Schedule 1 chemicals imported into the United States prior to April 29, 1997, or imported into the United States directly from the same State Party to which they now are to be returned, *i.e.*, exported); *and*

(D) The aggregate amount of Schedule 1 chemicals in the country of destination at any given time is equal to or less than one metric ton *and* receipt of the proposed export will *not* cause the country of destination to acquire or to have acquired one metric ton or more of Schedule 1 chemicals in any calendar year.

(ii) *Exports to States not party to the CWC.* Applications to export Schedule 1 chemicals controlled under ECCN 1C351.d.11 or .d.12 to States not Party to the CWC (destinations not listed in supplement no. 2 to part 745 of the EAR) generally will be denied, consistent with U.S. obligations under the CWC to prohibit exports of these chemicals to States not Party to the CWC.

(iii) *Reexports.* Applications to reexport Schedule 1 chemicals controlled under ECCN 1C351.d.11 or .d.12 generally will be denied to all destinations (including both States Parties to the CWC and States not Party to the CWC).

(2) *Schedule 2 chemicals and mixtures.* Applications to export or reexport Schedule 2 chemicals and mixtures controlled under ECCN 1C350.b, ECCN 1C355.a, or ECCN 1C395 to States not Party to the CWC (destinations *not* listed in supplement no. 2 to part 745 of the EAR) generally will be denied, consistent with U.S. obligations under the CWC to prohibit exports of these chemicals to States not Party to the CWC.

(3) *Schedule 3 chemicals and mixtures*—(i) *Exports.* Applications to export Schedule 3 chemicals and mixtures controlled under ECCN 1C350.c, ECCN 1C355.b, or ECCN 1C395.b to States not Party to the CWC (destinations *not* listed in supplement no. 2 to part 745 of the EAR) generally will be denied.

(ii) *Reexports from States not Party to the CWC.* Applications to reexport Schedule 3 chemicals and mixtures controlled under ECCN 1C350.c, ECCN 1C355.b, or ECCN 1C395.b from a State not Party to the CWC (a destination *not* listed in supplement no. 2 to part 745 of the EAR) to any other State not Party to the CWC generally will be denied.

(4) *Technology controlled under ECCN 1E355.* Exports and reexports of technology controlled under ECCN 1E355 will be reviewed on a case-by-case basis.

(c) *Contract sanctity.* Contract sanctity provisions are not available for license applications reviewed under this section.

[67 FR 37982, May 31, 2002, as amended at 69 FR 42865, July 19, 2004; 76 FR 56101, ≤Sept. 12, 2011]

§ 742.19 Anti-terrorism: North Korea.

(a) *License requirements.* (1) All items on the Commerce Control List (CCL) (i.e., with a designation other than EAR99) that are controlled for anti-terrorism reasons require a license for export or reexport to North Korea. This includes all items on the CCL containing AT column 1 or AT column 2 in the Country Chart column of the License requirements section of an ECCN; and ECCNs 0A986, 0A988, 0A999, 0B986, 0B999, 0D999, 1A999, 1B999, 1C995, 1C999, 1D999, 2A994, 2A999, 2B999, 2D994, 2E994, 3A999, and 6A999. See also part 746 of the EAR.

(2) The Secretary of State has designated North Korea as a country

whose Government has repeatedly provided support for acts of international terrorism.

(3) In support of U.S. foreign policy on terrorism-supporting countries, BIS maintains two types of anti-terrorism controls on the export and reexport of items described in supplement 2 to part 742.

(i) Items described in paragraphs (c)(1) through (c)(5) of supplement so. 2 to part 742 are controlled under section 6(j) of the Export Administration Act, as amended (EAA), if destined to military, police, intelligence or other sensitive end-users.

(ii) Items described in paragraphs (c)(1) through (c)(5) of supplement no. 2 to part 742 destined to non-sensitive end-users, as well as items described in paragraph (c)(6) through (c)(45) to all end-users, are controlled to North Korea under section 6(a) of the EAA. License applications for items reviewed under section 6(a) controls will also be reviewed to determine the applicability of section 6(j) controls to the transaction. When it is determined that an export or reexport could make a significant contribution to the military potential of North Korea, including its military logistics capability, or could enhance North Korea's ability to support acts of international terrorism, the Secretaries of State and Commerce will notify the Congress 30 days prior to issuance of a license. (See supplement no. 2 to part 742 for more information on items controlled under sections 6(a) and 6(j) of the EAA and § 750.6 of the EAR for procedures for processing license applications for items controlled under EAA section 6(j).)

(b) *Licensing policy*. (1) Applications for export and reexport to all end-users in North Korea of the following items will generally be denied:

(i) Items controlled for chemical and biological weapons proliferation reasons to any destination. These items contain CB Column 1, CB Column 2, or CB Column 3 in the Country Chart column of the ''License Requirements'' section of an ECCN on the CCL.

(ii) Items controlled for missile proliferation reasons to any destination. These items have an MT Column 1 in the Country Chart column of the ''License Requirements'' section of an ECCN on the CCL.

(iii) Items controlled for nuclear weapons proliferation reasons to any destination. These items contain NP Column 1 or NP Column 2 in the Country Chart column of the ''License Requirements'' section of an ECCN on the CCL.

(iv) Items controlled for national security reasons to any destination. These items contain NS Column 1 or NS Column 2 in the Country Chart column of the ''License Requirements'' section of an ECCN on the CCL.

(v) Military-related items controlled for national security reasons to any destination. These items contain NS Column 1 in the Country Chart column of the ''License Requirements'' section in an ECCN on the CCL *and* are controlled by equipment or material entries ending in the number ''18.''

(vi) All aircraft (powered and unpowered), helicopters, engines, and related spare parts and components. Such items contain an NS Column 1, NS Column 2, MT Column 1, or AT Column 1 in the Country Chart column of the ''License Requirements'' section of an ECCN on the CCL. (Not including parts and components for safety-of-flight, which will be reviewed on a case-by-case basis in accordance with paragraph (b)(2) of this section).

(vii) Cryptographic, cryptoanalytic, and crypto-logic items controlled any destination. These are items that contain an NS Column 1, NS Column 2, AT Column 1 or AT Column 2 in the Country Chart column of the ''License Requirements'' section of an ECCN on the CCL.

(viii) Submersible systems controlled under ECCN 8A992.

(ix) Scuba gear and related equipment controlled under ECCN 8A992.

(x) Pressurized aircraft breathing equipment controlled under ECCN 9A991.

(xi) Explosives detection equipment controlled under ECCN 2A983.

(xii) ''Software'' (ECCN 2D983) specially designed or modified for the ''development'', ''production'' or ''use'' of explosives detection equipment controlled by 2A983.

(xiii) ''Technology'' (ECCN 2E983) specially designed or modified for the

''development'', ''production'' or ''use'' of explosives detection equipment controlled by 2A983.

(xiv) Commercial charges and devices controlled under ECCN 1C992.

(xv) Computer numerically controlled machine tools controlled under ECCN 2B991.

(xvi) Aircraft skin and spar milling machines controlled under ECCN 2B991.

(xvii) Semiconductor manufacturing equipment controlled under ECCN 3B991.

(xviii) Digital computers with an Adjusted Peak Performance (APP) exceeding 0.0004 Weighted TeraFLOPS (WT).

(xix) Microprocessors with a processing speed of 0.5 GFLOPS or above .

(xx) Ammonium nitrate, including certain fertilizers containing ammonium nitrate, controlled under ECCN 1C997.

(xxi) Technology for the production of Chemical Weapons Convention (CWC) Schedule 2 and 3 Chemicals controlled under ECCN 1E355.

(xxii) Concealed object detection equipment controlled under ECCN 2A984.

(xxiii) ''Software'' (ECCN 2D984) ''required'' for the ''development'', ''production'' or ''use'' of concealed object detection equipment controlled by 2A984.

(xxiv) ''Technology'' (ECCN 2E984) ''required'' for the ''development'', ''production'' or ''use'' of concealed object detection equipment controlled by 2A984, or the ''development'' of ''software'' controlled by 2D984.

(2) Applications for export and reexport to North Korea of all other items described in paragraph (a) of this section, and not described by paragraph (b)(1) of this section, will generally be denied if the export or reexport is destined to a military end-user or for military end-use. Applications for non-military end-users or for non-military end-uses will be considered on a case-by-case basis. Applications to export or reexport humanitarian items intended for the benefit of the North Korean people; items in support of United Nations humanitarian efforts; and agricultural commodities and medical devices will generally be approved.

(3) Applications for export and reexport to North Korea of items described in paragraphs (c)(12), (c)(24), (c)(34), (c)(37), (c)(38), and (c)(45) of supplement no. 2 to part 742 will generally be denied if the export or reexport is destined to nuclear end-users or nuclear end-uses. Applications for non-nuclear end-users or for non-nuclear end-uses, excluding items described in (c)(24)(iv)(A) of supplement no. 2 to part 742, will be considered on a case-by-case basis.

(4) License applications for items reviewed under section 6(a) controls will also be reviewed to determine the applicability of section 6(j) controls to the transaction. When it is determined that an export or reexport could make a significant contribution to the military potential of North Korea, including its military logistics capability, or could enhance North Korea's ability to support acts of international terrorism, the Secretaries of State and Commerce will notify the Congress 30 days prior to issuance of a license.

[65 FR 38151, June 19, 2000, as amended at 66 FR 36682, July 12, 2001; 68 FR 16212, Apr. 3, 2003; 70 FR 54628, Sept. 16, 2005; 71 FR 20885, Apr. 24, 2006; 72 FR 3725, Jan. 26, 2007; 72 FR 62532, Nov. 5, 2007; 75 FR 14340, Mar. 25, 2010]

SUPPLEMENT NO. 1 TO PART 742—NONPROLIFERATION OF CHEMICAL AND BIOLOGICAL WEAPONS

NOTE: Exports and reexports of items in performance of contracts entered into before the applicable contract sanctity date(s) will be eligible for review on a case-by-case basis or other applicable licensing policies that were in effect prior to the contract sanctity date. The contract sanctity dates set forth in this supplement are for the guidance of exporters. Contract sanctity dates are established in the course of the imposition of foreign policy controls on specific items and are the relevant dates for the purpose of licensing determinations involving such items. If you believe that a specific contract sanctity date is applicable to your transaction, you should include all relevant information with your license application.

(1) The contract sanctity date for exports to Iran or Syria of dimethyl methylphosphonate, phosphorous oxychloride, thiodiglycol, dimethylamine hydrochloride, dimethylamine, ethylene chlorohydrin (2-chloroethanol), and potassium fluoride is April 28, 1986.

(2) The contract sanctity date for exports to Iran or Syria of dimethyl phosphite (dimethyl hydrogen phosphite), methyl phosphonyldichloride, 3-quinuclidinol, N,N-diisopropylamino-ethane-2-thiol, N,N-diisopropylaminoethyl-2-chloride, 3-hydroxy-1-methylpiperidine, trimethyl phosphite, phosphorous trichloride, and thionyl chloride is July 6, 1987.

(3) The contract sanctity date for exports to Iran or Syria of items in ECCNs 1C351, 1C353 and 1C354 is February 22, 1989.

(4) The contract sanctity date for exports to Iran of dimethyl methylphosphonate, phosphorus oxychloride, and thiodiglycol is February 22, 1989.

(5) The contract sanctity date for exports to Iran or Syria of potassium hydrogen fluoride, ammonium hydrogen fluoride, sodium fluoride, sodium bifluoride, phosphorus pentasulfide, sodium cyanide, triethanolamine, diisopropylamine, sodium sulfide, and N,N-diethylethanolamine is December 12, 1989.

(6) The contract sanctity date for exports to all destinations (except Iran or Syria) of phosphorus trichloride, trimethyl phosphite, and thionyl chloride is December 12, 1989. For exports to Iran or Syria, paragraph (2) of this supplement applies.

(7) The contract sanctity date for exports to all destinations (except Iran or Syria) of 2-chloroethanol and triethanolamine is January 15, 1991. For exports of 2-chloroethanol to Iran or Syria, paragraph (1) of this Supplement applies. For exports of triethanolamine to Iran or Syria, paragraph (5) of this Supplement applies.

(8) The contract sanctity date for exports to all destinations (except Iran or Syria) of chemicals controlled by ECCN 1C350 is March 7, 1991, except for applications to export the following chemicals: 2-chloroethanol, dimethyl methylphosphonate, dimethyl phosphite (dimethyl hydrogen phosphite), phosphorus oxychloride, phosphorous trichloride, thiodiglycol, thionyl chloride triethanolamine, and trimethyl phosphite. (See also paragraphs (6) and (7) of this Supplement.) For exports to Iran or Syria, see paragraphs (1) through (6) of this Supplement.

(9) The contract sanctity date for exports and reexports of the following commodities and technical data is March 7, 1991:

(i) Equipment (for producing chemical weapon precursors and chemical warfare agents) described in ECCNs 2B350 and 2B351;

(ii) Equipment and materials (for producing biological agents) described in ECCNs 1C351, 1C353, 1C354, and 2B352; and

(iii) Technology (for the development, production, and use of equipment described in ECCNs 1C351, 1C353, 1C354, 2B350, 2B351, and 2B352) described in ECCNs 2E001, 2E002, and 2E301.

(10) The contract sanctity date for license applications subject to §742.2(b)(3) of this part is March 7, 1991.

(11) The contract sanctity date for reexports of chemicals controlled under ECCN 1C350 is March 7, 1991, except that the contract sanctity date for reexports of these chemicals to Iran or Syria is December 12, 1989.

(12) The contract sanctity date for reexports of human pathogens, zoonoses, toxins, animal pathogens, genetically modified microorganisms and plant pathogens controlled by ECCNs 1C351, 1C353 and 1C354 is March 7, 1991.

[61 FR 12786, Mar. 25, 1996, as amended at 62 FR 25459, May 9, 1997; 69 FR 42865, July 19, 2004; 71 FR 51718, Aug. 31, 2006; 80 FR 34271, June 16, 2015]

SUPPLEMENT NO. 2 TO PART 742—ANTI-TERRORISM CONTROLS: NORTH KOREA, SYRIA AND SUDAN CONTRACT SANCTITY DATES AND RELATED POLICIES

NOTE: Exports and reexports of items in performance of contracts entered into before the applicable contract sanctity date(s) will be eligible for review on a case-by-case basis or other applicable licensing policies that were in effect prior to the contract sanctity date. The contract sanctity dates set forth in this Supplement are for the guidance of exporters. Contract sanctity dates are established in the course of the imposition of foreign policy controls on specific items and are the relevant dates for the purpose of licensing determinations involving such items. If you believe that a specific contract sanctity date is applicable to your transaction, you should include all relevant information with your license application. BIS will determine any applicable contract sanctity date at the time an application with relevant supporting documents is submitted.

(a) *Terrorist-supporting countries.* The Secretary of State has designated North Korea, Sudan and Syria as countries whose governments have repeatedly provided support for acts of international terrorism under section 6(j) of the Export Administration Act (EAA).

(b) *Items controlled under EAA sections 6(j) and 6(a).* Whenever the Secretary of State determines that an export or reexport to any of these countries could make a significant contribution to the military potential of such country, including its military logistics capability, or could enhance the ability of such country to support acts of international terrorism, the item is subject to mandatory control under EAA section 6(j) and the Secretaries of Commerce and State are required to notify appropriate Committees of the Congress 30 days before a license for such an item may be issued.

(1) On December 28, 1993, the Secretary of State determined that the export to North Korea, Sudan, or Syria of items described in paragraphs (c)(1) through (c)(5) of this Supplement, if destined to military, police, intelligence or other sensitive end-users, are controlled under EAA section 6(j). Therefore, the 30-day advance Congressional notification requirement applies to the export or reexport of these items to sensitive end-users in any of these countries.

(2) License applications for items controlled to designated terrorist-supporting countries under EAA section 6(a) will also be reviewed to determine whether the Congressional notification requirements of EAA section 6(j) apply.

(3) Items controlled for anti-terrorism reasons under section 6(a) to North Korea, Sudan and Syria are:

(i) Items described in paragraphs (c)(1) through (c)(5) to non-sensitive end-users, and

(ii) The following items to all end-users: for North Korea, items in paragraph (c)(6) through (c)(45) of this Supplement; for Sudan, items in paragraphs (c)(6) through (c)(14) and (c)(16) through (c)(44) of this Supplement; and for Syria, items in paragraphs (c)(6) through (c)(8), (c)(10) through (c)(14), (c)(16) through (c)(19), and (c)(22) through (c)(44) of this Supplement.

(c) The license requirements and licensing policies for items controlled for anti-terrorism reasons to Syria, Sudan, and North Korea are generally described in §§742.9, 742.10, and 742.19 of this part, respectively. This Supplement provides guidance on licensing policies for North Korea, Syria, and Sudan and related contract sanctity dates that may be available for transactions benefiting from pre-existing contracts involving Syria, and Sudan.

(1) *All items subject to national security controls.*

(i) [Reserved]

(ii) *Syria.* Applications for military end-users or military end-uses in Syria will generally be denied. Applications for non-military end-users or end-uses will be considered on a case-by-case basis, unless otherwise specified in paragraphs (c)(2) through (c)(42) of this Supplement. No contract sanctity date is available for items valued at $7 million or more to military end-users or end-uses. The contract sanctity date for all other items for all end-users: December 16, 1986.

(iii) *Sudan.* Applications for military end-users or military end-uses in Sudan will generally be denied. Applications for non-military end-users or end-uses will be considered on a case-by-case basis unless otherwise specified in paragraphs (c)(2) through (c)(42) of this Supplement. Contract sanctity date: January 19, 1996, unless a prior contract sanctity date applies (e.g., items first controlled to Sudan for foreign policy reasons under EAA section 6(j) have a contract sanctity date of December 28, 1993).

(iv) *North Korea.* Applications for all end-users in North Korea of such equipment will generally be denied.

(2) *All items subject to chemical and biological weapons proliferation controls.* Applications for all end-users in North Korea, Syria, or Sudan of these items will generally be denied. See supplement no. 1 to part 742 for contract sanctity dates for Syria. Contract sanctity date for Sudan: January 19, 1996, unless a prior contract sanctity date applies (e.g., items first controlled to Sudan for foreign policy reasons under EAA section 6(j) have a contract sanctity date of December 28, 1993), or unless an earlier date for any item is listed in Supplement 1 to part 742.

(3) *All items subject to missile proliferation controls (MTCR).* Applications for all end-users in North Korea, Syria, or Sudan will generally be denied. Contract sanctity provisions for Syria are not available. Contract sanctity date for Sudan: January 19, 1996, unless a prior contract sanctity date applies (e.g., items first controlled to Sudan for foreign policy reasons under EAA section 6(j) have a contract sanctity date of December 28, 1993).

(4) *All items subject to nuclear weapons proliferation controls (NRL).*

(i) [Reserved]

(ii) *Syria.* Applications for military end-users or end-uses to Syria will generally be denied. Applications for non-military end-users or end-uses will be considered on a case-by-case basis unless otherwise specified in paragraphs (c)(2) through (c)(42) of this Supplement. No contract sanctity date is available.

(iii) *Sudan.* Applications for military end-users or end-uses in Sudan will generally be denied. Applications for export and reexport to non-military end-users or end-uses will be considered on a case-by-case basis unless otherwise specified in paragraphs (c)(2) through (c)(42) of this Supplement. No contract sanctity date is available.

(iv) *North Korea.* Applications for all end-users in North Korea will generally be denied.

(5) *All military-related items, i.e., applications for export and reexport of items controlled by CCL entries ending with the number ''18''.*

(i) [Reserved]

(ii) *Syria.* Applications for all end-users in Syria will generally be denied. Contract sanctity date: see paragraph (c)(1)(ii) of this Supplement.

(iii) *Sudan.* Applications for all end-users in Sudan will generally be denied. Contract sanctity date for Sudan: January 19, 1996, unless a prior contract sanctity date applies (e.g., items first controlled to Sudan for foreign policy reasons under EAA section 6(j) have a contract sanctity date of December 28, 1993).

(iv) *North Korea*. Applications for all end-users in North Korea will generally be denied.

(6) *All aircraft (powered and unpowered), helicopters, engines, and related spare parts and components*.

(i) [Reserved]

(ii) *Syria*. Applications for all end-users in Syria will generally be denied.

(A) There is no contract sanctity for helicopters exceeding 10,000 lbs. empty weight or fixed wing aircraft valued at $3 million or more; except that passenger aircraft, regardless of value, have a contract sanctity date of December 16, 1986, if destined for a regularly scheduled airline with assurance against military use.

(B) Contract sanctity date for helicopters with 10,000 lbs. empty weight or less: April 28, 1986.

(C) Contract sanctity date for other aircraft and gas turbine engines therefor: December 16, 1986.

(D) Contract sanctity date for helicopter or aircraft parts and components controlled by ECCN 9A991.d: August 28, 1991.

(iii) *Sudan*. Applications for all end-users in Sudan will generally be denied. Contract sanctity date: January 19, 1996.

(iv) *North Korea*. Applications for all end-users in North Korea will generally be denied.

(7) *Heavy duty, on-highway tractors*

(i) [Reserved]

(ii) *Syria*. Applications for military end-users or for military end-uses in Syria will generally be denied. Applications for non-military end-users or for non-military end-uses in Syria will be considered on a case-by-case basis. Contract sanctity date: August 28, 1991.

(iii) *Sudan*. Applications for military end-users or for military end-uses in Sudan will generally be denied. Applications for non-military end-users or for non-military end-uses in Sudan will be considered on a case-by-case basis. Contract sanctity date: January 19, 1996.

(iv) *North Korea*. Applications for military end-users or for military end-uses in North Korea will generally be denied. Applications for non-military end-users or for non-military end-uses in North Korea will be considered on a case-by-case basis.

(8) *Off-highway wheel tractors of carriage capacity 9t (10 tons) or more*.

(i) [Reserved]

(ii) *Syria*. Applications for military end-users or for military end-uses in Syria will generally be denied. Applications for non-military end-users or for non-military end-uses in Syria will be considered on a case-by-case basis. Contract sanctity date: August 28, 1991.

(iii) *Sudan*. Applications for military end-users or for military end-uses in Sudan will generally be denied. Applications for non-military end-users or for non-military end-uses in Sudan will be considered on a case-by-case basis. Contract sanctity date: January 19, 1996.

(iv) *North Korea*. Applications for military end-users or for military end-uses in North Korea will generally be denied. Applications for non-military end-users or for non-military end-uses in North Korea will be considered on a case-by-case basis.

(9) *Large diesel engines (greater than 400 horsepower) and parts to power tank transporters*.

(i) [Reserved]

(ii) *Sudan*. Applications for military end-users or for military end-uses in Sudan will generally be denied. Applications for non-military end-users or for non-military end-uses in Sudan will be considered on a case-by-case basis. Contract sanctity date: January 19, 1996.

(iii) *North Korea*. Applications for military end-users or for military end-uses in North Korea will generally be denied. Applications for non-military end-users or for non-military end-uses in North Korea will be considered on a case-by-case basis.

(10) *Cryptographic, cryptoanalytic, and cryptologic equipment*.

(i) [Reserved]

(ii) *Syria*. A license is required for all national security-controlled cryptographic, cryptoanalytic, and cryptologic equipment to all end-users. Applications for all end-users in Syria will generally be denied. Contract sanctity date for cryptographic, cryptoanalytic, and cryptologic equipment that was subject to national security controls on August 28, 1991: see paragraph (c)(1)(ii) of this Supplement.

(iii) *Sudan*. Applications for all end-users in Sudan of any such equipment will generally be denied. Contract sanctity date for Sudan: January 19, 1996, unless a prior contract sanctity date applies (e.g., items first controlled to Sudan for foreign policy reasons under EAA section 6(j) have a contract sanctity date of December 28, 1993).

(iv) *North Korea*. Applications for all end-users in North Korea of any such equipment will generally be denied.

(11) *Navigation, direction finding, and radar equipment*.

(i) [Reserved]

(ii) *Syria*. Applications for military end-users or for military end-uses in Syria of such equipment will generally be denied. Applications for non-military end-users or for non-military end-uses in Syria will be considered on a case-by-case basis.

(A) Contract sanctity date for exports of navigation, direction finding, and radar equipment that was subject to national security controls on August 28, 1991: see paragraph (c)(1)(ii) of this Supplement.

(B) Contract sanctity date for all other navigation, direction finding, and radar equipment: August 28, 1991.

(iii) *Sudan*. Applications for military end-users or for military end-uses in Sudan of such equipment will generally be denied. Applications for non-military end-users or for non-military end-uses in Sudan of such equipment will be considered on a case-by-case basis. Contract sanctity date for Sudan: January 19, 1996, unless a prior contract sanctity date applies (e.g., items first controlled to Sudan for foreign policy reasons under EAA section 6(j) have a contract sanctity date of December 28, 1993).

(iv) *North Korea*. Applications for military end-users or for military end-uses in North Korea of such equipment will generally be denied. Applications for non-military end-users or for non-military end-uses in North Korea will be considered on a case-by-case basis.

(12) *Electronic test equipment*.

(i) [Reserved]

(ii) *Syria*. Applications for military end-users or for military end-uses in Syria of such equipment will generally be denied. Applications for non-military end-users or for non-military end-uses in Syria will be considered on a case-by-case basis.

(A) Contract sanctity date for electronic test equipment that was subject to national security controls on August 28, 1991: see paragraph (c)(1)(ii) of this Supplement.

(B) Contract sanctity date for all other electronic test equipment: August 28, 1991.

(iii) *Sudan*. Applications for military end-users or for military end-uses in Sudan of such equipment will generally be denied. Applications for non-military end-users or for non-military end-uses in Sudan will be considered on a case-by-case basis. Contract sanctity date for Sudan: January 19, 1996, unless a prior contract sanctity date applies (e.g., items first controlled to Sudan for foreign policy reasons under EAA section 6(j) have a contract sanctity date of December 28, 1993).

(iv) *North Korea*. Applications for military end-users or for military end-uses, or for nuclear end-users or nuclear end-uses, in North Korea of such equipment will generally be denied. Applications for non-military end-users or for non-military end-uses, or for non-nuclear end-users or non-nuclear end-uses, in North Korea will be considered on a case-by-case basis.

(13) *Mobile communications equipment*.

(i) [Reserved]

(ii) *Syria*. Applications for military end-users or for military end-uses in Syria of such equipment will generally be denied. Applications for non-military end-users or for non-military end-uses in Syria will be considered on a case-by-case basis.

(A) Contract sanctity date for mobile communications equipment that was subject to national security controls on August 28, 1991: see paragraph (c)(1)(ii) of this Supplement.

(B) Contract sanctity date for exports of all other mobile communications equipment: August 28, 1991.

(iii) *Sudan*. Applications for military end-users or for military end-uses in Sudan of such equipment will generally be denied. Applications for non-military end-users or for non-military end-uses in Sudan of such equipment will be considered on a case-by-case basis. Contract sanctity date for Sudan: January 19, 1996, unless a prior contract sanctity date applies (e.g., items first controlled to Sudan for foreign policy reasons under EAA section 6(j) have a contract sanctity date of December 28, 1993).

(iv) *North Korea*. Applications for military end-users or for military end-uses in North Korea of such equipment will generally be denied. Applications for non-military end-users or for non-military end-uses in North Korea will be considered on a case-by-case basis.

(14) *Acoustic underwater detection equipment*.

(i) [Reserved]

(ii) *Syria*. A license is required for acoustic underwater detection equipment that was subject to national security controls on August 28, 1991, to all end-users. Applications for military end-users or for military end-uses in Syria will generally be denied. Applications for non-military end-users or for non-military end-uses in Syria will be considered on a case-by-case basis. Contract sanctity date for acoustic underwater detection equipment that was subject to national security controls on August 28, 1991: see paragraph (c)(1)(ii) of this Supplement.

(iii) *Sudan*. Applications for military end-users or for military end-uses to Sudan of such equipment will generally be denied. Applications for non-military end-users or for non-military end-uses in Sudan will be considered on a case-by-case basis. Contract sanctity date for Sudan: January 19, 1996, unless a prior contract sanctity date applies (e.g., items first controlled to Sudan for foreign policy reasons under EAA section 6(j) have a contract sanctity date of December 28, 1993).

(iv) *North Korea*. Applications for military end-users or for military end-uses in North Korea of such equipment of these items will generally be denied. Applications for non-military end-users or for non-military end-uses in North Korea of such equipment will be considered on a case-by-case basis.

(15) *Portable electric power generator*.

(i) [Reserved]

(ii) *North Korea*. Applications for military end-users or for military end-uses in North Korea of such equipment will generally be denied. Applications for non-military end-users or for non-military end-uses in North Korea of such equipment will be considered on a case-by-case basis.

(16) *Vessels and boats, including inflatable boats.*

(i) [Reserved]

(ii) *Syria.* A license is required for national security-controlled vessels and boats. Applications for military end-users or for military end-uses in Syria of these items will generally be denied. Applications for non-military end-users or for non-military end-uses in Syria will be considered on a case-by-case basis. Contract sanctity date for vessels and boats that were subject to national security controls on August 28, 1991: see paragraph (c)(1)(ii) of this Supplement.

(iii) *Sudan.* Applications for military end-users or for military end-uses in Sudan of these items will generally be denied. Applications for non-military end-users or for non-military end-uses in Sudan will be considered on a case-by-case basis. Contract sanctity date for Sudan: January 19, 1996, unless a prior contract sanctity date applies (e.g., items first controlled to Sudan for foreign policy under EAA section 6(j) have a contract sanctity date of December 28, 1993).

(iv) *North Korea.* Applications for military end-users or for military end-uses in North Korea of these items will generally be denied. Applications for non-military end-users or for non-military end-uses in North Korea of these items will be considered on a case-by-case basis.

(17) *Marine and submarine engines (outboard/inboard, regardless of horsepower).*

(i) [Reserved]

(ii) *Syria.* A license is required for all marine and submarine engines subject to national security controls to all end-users. Applications for military end-users or for military end-uses in Syria of these items will generally be denied. Applications for non-military end-users or for non-military end-uses in Syria will be considered on a case-by-case basis. Contract sanctity date for marine and submarine engines that were subject to national security controls on August 28, 1991: see paragraph (c)(1)(ii) of this Supplement.

(iii) *Sudan.* Applications for military end-users or for military end-uses in Sudan of these items will generally be denied. Applications for non-military end-users or for non-military end-uses in Sudan will be considered on a case-by-case basis. Contract sanctity date for Sudan: January 19, 1996, unless a prior contract sanctity date applies (e.g., items first controlled to Sudan for foreign policy reasons under EAA section 6(j) have a contract sanctity date of December 28, 1993).

(iv) *North Korea.* Applications for military end-users or for military end-uses in North Korea of these items will generally be denied. Applications for non-military end-users or for non-military end-uses in North Korea of these items will be considered on a case-by-case basis.

(18) *Underwater photographic equipment.*

(i) [Reserved]

(ii) *Syria.* Applications for military end-users or for military end-uses in Syria of such equipment will generally be denied. Applications for non-military end-users or for non-military end-uses in Syria will be considered on a case-by-case basis.

(A) Contract sanctity date for underwater photographic equipment that was subject to national security controls on August 28, 1991: see paragraph (c)(1)(ii) *of this Supplement.*

(B) Contract sanctity date for all other underwater photographic equipment: August 28, 1991.

(iii) *Sudan.* Applications for military end-users or for military end-uses in Sudan of such equipment will generally be denied. Applications for non-military end-users or for non-military end-uses in Sudan will be considered on a case-by-case basis. Contract sanctity date for Sudan: January 19, 1996, unless a prior contract sanctity date applies (e.g., items first controlled to Sudan for foreign policy reasons under EAA section 6(j) have a contract sanctity date of December 28, 1993).

(iv) *North Korea.* Applications for all end-users in North Korea of such equipment will generally be denied.

(19) *Submersible systems.*

(i) [Reserved]

(ii) *Syria.* Applications for military end-users or for military end-uses in Syria of such systems will generally be denied. Applications for non-military end-users or for non-military end-uses in Syria will be considered on a case-by-case basis.

(A) Contract sanctity date for submersible systems that were subject to national security controls on August 28, 1991: see paragraph (c)(1)(ii) of this Supplement.

(B) Contract sanctity date for all other submersible systems: August 28, 1991.

(iii) *Sudan.* Applications for military end-users or for military end-uses in Sudan of such systems will generally be denied. Applications for non-military end-users or for non-military end-uses in Sudan will be considered on a case-by-case basis. Contract sanctity date for Sudan: January 19, 1996, unless a prior contract sanctity date applies(e.g., items first controlled to Sudan for foreign policy reasons under EAA section 6(j) have a contract sanctity date of December 28, 1993).

(iv) *North Korea.* Applications for all end-users in North Korea of such equipment will generally be denied.

(20) *Scuba gear and related equipment.*

(i) [Reserved]

(ii) *Sudan.* Applications for military end-users and end-uses in Sudan of these items will generally be denied. Applications for non-military end-users or for non-military end-uses in Sudan will be considered on a case-by-case basis. Contract sanctity date: January 19, 1996.

(iii) *North Korea.* Applications for all end-users in North Korea of such equipment will generally be denied.

(21) *Pressurized aircraft breathing equipment.*

(i) [Reserved]

(ii) *Sudan.* Applications for military end-users or for military end-uses in Sudan of these items will generally be denied. Applications for non-military end-users or for non-military end-uses in Sudan will be considered on a case-by-case basis. Contract sanctity date: January 19, 1996.

(iii) *North Korea.* Applications for all end-users in North Korea of such equipment will generally be denied.

(22) *Computer numerically controlled machine tools.*

(i) [Reserved]

(ii) *Syria.* Applications for military end-users or for military end-uses in Syria of these items will generally be denied. Applications for non-military end-users or for non-military end-uses will be considered on a case-by-case basis.

(A) Contract sanctity date for computer numerically controlled machine tools that were subject to national security controls on August 28, 1991: see paragraph (c)(1)(ii) of this Supplement.

(B) Contract sanctity date for exports of all other computer numerically controlled machine tools: August 28, 1991.

(iii) *Sudan.* Applications for military end-users or for military end-uses in Sudan of these items will generally be denied. Applications for non-military end-users or for non-military end-uses in Sudan will be considered on a case-by-case basis. Contract sanctity date for Sudan: January 19, 1996, unless a prior contract sanctity date applies (e.g., items first controlled to Sudan for foreign policy reasons under EAA section 6(j) have a contract sanctity date of December 28, 1993).

(iv) *North Korea.* Applications for all end-users in North Korea of such equipment will generally be denied.

(23) *Vibration test equipment.*

(i) [Reserved]

(ii) *Syria.* Applications for military end-users or for military end-uses in Syria of such equipment will generally be denied. Applications for non-military end-users or for non-military end-uses will be considered on a case-by-case basis.

(A) Contract sanctity date for vibration test equipment that was subject to national security controls on August 28, 1991: see paragraph (c)(1)(ii) of this Supplement.

(B) Contract sanctity date for exports of all other vibration test equipment: August 28, 1991.

(iii) *Sudan.* Applications for military end-users or for military end-uses in Sudan of such equipment will generally be denied. Applications for non-military end-users or for non-military end-uses in Sudan will be considered on a case-by-case basis. Contract sanctity date for Sudan: January 19, 1996, unless a prior contract sanctity date applies (e.g., items first controlled to Sudan for foreign policy reasons under EAA section 6(j) have a contract sanctity date of December 28, 1993).

(iv) *North Korea.* Applications for military end-users or for military end-uses in North Korea of these items will generally be denied. Applications for non-military end-users or for non-military end-uses will be considered on a case-by-case basis.

(24) *Digital computers with an APP of .00001 WT or above, assemblies, related equipment, equipment for development or production of magnetic and optical storage equipment, and materials for fabrication of head/disk assemblies.*

(i) [Reserved]

(ii) *Syria.* Applications for military end-users or for military end-uses in Syria of these items will generally be denied. Applications for non-military end-users or for non-military end-uses will be considered on a case-by-case basis.

(A) Contract sanctity dates for items that were subject to national security controls on August 28, 1991: see paragraph (c)(1)(ii) of this Supplement.

(B) Contract sanctity date for all other items: August 28, 1991.

(iii) *Sudan.* Applications for military end-users or for military end-uses in Sudan of these items will generally be denied. Applications for non-military end-users or for non-military end-uses in Sudan will be considered on a case-by-case basis. Contract sanctity date for Sudan: January 19, 1996, unless a prior contract sanctity date applies (e.g., items first controlled to Sudan for foreign policy reasons under EAA section 6(j) have a contract sanctity date of December 28, 1993).

(iv) *North Korea.* (A) Computers with an APP exceeding 0.0004 WT: Applications for all end-users will generally be denied.

(B) Computers with an APP equal to or less than 0.0004 WT: Applications for military end-users or for military end-uses, or for nuclear end-users or nuclear end-uses, will generally be denied. Applications for non-military end-users or for non-military end-uses, or for non-nuclear end-users or non-nuclear end-uses, will be considered on a case-by-case basis.

(25) *Telecommunications equipment.*

(i) A license is required for the following telecommunications equipment: (A) Radio relay systems or equipment operating at a frequency equal to or greater than 19.7 GHz or ''spectral efficiency'' greater than 3 bit/s/Hz; (B) Fiber optic systems or equipment operating at a wavelength greater than 1000 nm; (C) ''Telecommunications transmission systems'' or equipment with a ''digital transfer rate'' at the highest multiplex level exceeding 45 Mb/s.

(ii) [Reserved]

(iii) *Syria.* Applications for military end-users or for military end-uses in Syria of such equipment will generally be denied. Applications for non-military end-users or for non-military end-uses will be considered on a case-by-case basis.

(A) Contract sanctity date for exports of telecommunications equipment that was subject to national security controls on August 28, 1991: see paragraph (c)(1)(ii) of this Supplement.

(B) Contract sanctity date for exports of all other telecommunications equipment: August 28, 1991.

(iv) *Sudan.* Applications for military end-users or for military end-uses in Sudan of such equipment will generally be denied. Applications for non-military end-users or for non-military end-uses in Sudan will be considered on a case-by-case basis. Contract sanctity date for Sudan: January 19, 1996, unless a prior contract sanctity date applies (e.g., items first controlled to Sudan for foreign policy reasons under EAA section 6(j) have a contract sanctity date of December 28, 1993).

(v) *North Korea.* Applications for military end-users or for military end-uses in North Korea of such equipment will generally be denied. Applications for non-military end-users or for non-military end-uses will be considered on a case-by-case basis.

(26) *Microprocessors*—(i) Operating at a clock speed over 25 MHz.

(A) [Reserved]

(B) *Syria.* Applications for military end-users or for military end-uses in Syria of these items will generally be denied. Applications for non-military end-users or for non-military end-uses will be considered on a case-by-case basis.

(*1*) Contract sanctity date for microprocessors that were subject to national security controls on August 28, 1991: see paragraph (c)(1)(ii) of this supplement.

(*2*) Contract sanctity date for all other microprocessors: August 28, 1991.

(C) *Sudan.* Applications for military end-users or for military end-uses in Sudan of these items will generally be denied. Applications for non-military end-users or for non-military end-uses in Sudan will be considered on a case-by-case basis. Contract sanctity date for Sudan: January 19, 1996, unless a prior contract sanctity date applies (e.g., items first controlled to Sudan for foreign policy reasons under EAA section 6(j) have a contract sanctity date of December 28, 1993).

(ii) With a processing speed of 0.5 GFLOPS or above.

(A) *North Korea.* Applications for all end-users in North Korea of these items will generally be denied.

(B) [Reserved]

(27) *Semiconductor manufacturing equipment.* For Syria, Sudan, or North Korea, a license is required for all such equipment described in ECCNs 3B001 and 3B991.

(i) [Reserved]

(ii) *Syria.* Applications for military end-users or for military end-uses in Syria of such equipment will generally be denied. Applications for non-military end-users or for non-military end-uses will be considered on a case-by-case basis.

(A) Contract sanctity date for semiconductor manufacturing equipment that was subject to national security controls on August 28, 1991: see paragraph (c)(1)(ii) of this Supplement.

(B) Contract sanctity date for all other semiconductor manufacturing equipment: August 28, 1991.

(iii) *Sudan.* Applications for military end-users or for military end-uses in Sudan of such equipment will generally be denied. Applications for non-military end-users or for non-military end-uses in Sudan will be considered on a case-by-case basis. Contract sanctity date for Sudan: January 19, 1996, unless a prior contract sanctity date applies (e.g., items first controlled to Sudan for foreign policy reasons under EAA section 6(j) have a contract sanctity date of December 28, 1993).

(iv) *North Korea.* Applications for all end-users in North Korea of such equipment will generally be denied.

(28) *Software specially designed for the computer-aided design and manufacture of integrated circuits.*

(i) [Reserved]

(ii) *Syria.* Applications for military end-users or for military end-uses in Syria of such software will generally be denied. Applications for non-military end-users or for non-military end-uses will be considered on a case-by-case basis.

(A) Contract sanctity date for such software that was subject to national security controls on August 28, 1991: see paragraph (c)(1)(ii) of this Supplement.

(B) Contract sanctity date for all other such software: August 28, 1991.

(iii) *Sudan.* Applications for military end-users or for military end-uses in Sudan of such software will generally be denied. Applications for non-military end-users or for non-military end-uses in Sudan will be considered on a case-by-case basis. Contract sanctity date for Sudan: January 19, 1996, unless a prior contract sanctity date applies (e.g., items first controlled to Sudan for foreign policy reasons under EAA section 6(j) have a contract sanctity date of December 28, 1993).

(iv) *North Korea.* Applications for military end-users or for military end-uses in North Korea of such software will generally be denied. Applications for non-military end-users

or for non-military end-uses will be considered on a case-by-case basis.

(29) *Packet switches. Equipment described in ECCN 5A991.c.*

(i) [Reserved]

(ii) *Syria.* Applications for military end-users or for military end-uses in Syria of such equipment will generally be denied. Applications for non-military end-users or for non-military end-uses will be considered on a case-by-case basis.

(A) Contract sanctity date for packet switches that were subject to national security controls on August 28, 1991: see paragraph (c)(1)(ii) of this Supplement.

(B) Contract sanctity date for all other packet switches: August 28, 1991.

(iii) *Sudan.* Applications for military end-users or for military end-uses in Sudan of such equipment will generally be denied. Applications for non-military end-users or for non-military end-uses in Sudan will be considered on a case-by-case basis. Contract sanctity date for Sudan: January 19, 1996, unless a prior contract sanctity date applies (e.g., items first controlled to Sudan for foreign policy reasons under EAA section 6(j) have a contract sanctity date of December 28, 1993).

(iv) *North Korea.* Applications for military end-users or for military end-uses in North Korea of these items will generally be denied. Applications for non-military end-users or for non-military end-uses will be considered on a case-by-case basis.

(30) *Specially designed software for air traffic control applications that uses any digital signal processing techniques for automatic target tracking or that has a facility for electronic tracking.*

(i) [Reserved]

(ii) *Syria.* Applications for military end-users or for military end-uses in Syria of such software will generally be denied. Applications for non-military end-users or for non-military end-uses will be considered on a case-by-case basis.

(A) Contract sanctity date for such software that was subject to national security controls on August 28, 1991: see paragraph (c)(1)(ii) of this Supplement.

(B) Contract sanctity date for exports of all other such software: August 28, 1991.

(iii) *Sudan.* Applications for military end-users or for military end-uses in Sudan of such software will generally be denied. Applications for non-military end-users or for non-military end-uses in Sudan will be considered on a case-by-case basis. Contract sanctity date for Sudan: January 19, 1996, unless a prior contract sanctity date applies (e.g., items first controlled to Sudan for foreign policy reasons under EAA section 6(j) have a contract sanctity date of December 28, 1993).

(iv) *North Korea.* Applications for military end-users or for military end-uses in North Korea of such software will generally be denied. Applications for non-military end-users or for non-military end-uses will be considered on a case-by-case basis.

(31) *Gravity meters having static accuracy of less (better) than 100 microgal, or gravity meters of the quartz element (worden) type.*

(i) [Reserved]

(ii) *Syria.* Applications for military end-users or for military end-uses in Syria of these items will generally be denied. Applications for non-military end-users or for non-military end-uses will be considered on a case-by-case basis.

(A) Contract sanctity date for gravity meters that were subject to national security controls on August 28, 1991: see paragraph (c)(1)(ii) of this Supplement.

(B) Contract sanctity date for exports of all other such gravity meters: August 28, 1991.

(iii) *Sudan.* Applications for military end-users or for military end-uses in Sudan of these items will generally be denied. Applications for non-military end-users or for non-military end-uses in Sudan will be considered on a case-by-case basis. Contract sanctity date for Sudan: January 19, 1996, unless a prior contract sanctity date applies (e.g., items first controlled to Sudan for foreign policy reasons under EAA section 6(j) have a contract sanctity date of December 28, 1993).

(iv) *North Korea.* Applications for military end-users or for military end-uses in North Korea of these items will generally be denied. Applications for non-military end-users or for non-military end-uses will be considered on a case-by-case basis.

(32) *Magnetometers with a sensitivity lower (better) than 1.0 nt rms per square root Hertz.*

(i) [Reserved]

(ii) *Syria.* Applications for military end-users or for military end-uses in Syria of these items will generally be denied. Applications for non-military end-users or for non-military end-uses will be considered on a case-by-case basis.

(A) Contract sanctity date for such magnetometers that were subject to national security controls on August 28, 1991: see paragraph (c)(1)(ii) of this Supplement.

(B) Contract sanctity date for all other such magnetometers: August 28, 1991.

(iii) *Sudan.* Applications for military end-users or for military end-uses in Sudan of these items will generally be denied. Applications for non-military end-users or for non-military end-uses in Sudan will be considered on a case-by-case basis. Contract sanctity date for Sudan: January 19, 1996, unless a prior contract sanctity date applies (e.g., items first controlled to Sudan for foreign policy reasons under EAA section 6(j) have a contract sanctity date of December 28, 1993).

(iv) *North Korea*. Applications for military end-users or for military end-uses in North Korea of these items will generally be denied. Applications for non-military end-users or for non-military end-uses will be considered on a case-by-case basis.

(33) *Fluorocarbon compounds described in ECCN 1C006.d for cooling fluids for radar*.

(i) [Reserved]

(ii) *Syria*. Applications for military end-users or for military end-uses in Syria of such compounds will generally be denied. Applications for non-military end-users or for non-military end-uses will be considered on a case-by-case basis.

(A) Contract sanctity date for such fluorocarbon compounds that were subject to national security controls on August 28, 1991: see paragraph (c)(1)(ii) of this Supplement.

(B) Contract sanctity date for all other such fluorocarbon compounds: August 28, 1991.

(iii) *Sudan*. Applications for military end-users or for military end-uses in Sudan of such compounds will generally be denied. Applications for non-military end-users or for non-military end-uses in Sudan will be considered on a case-by-case basis. Contract sanctity date for Sudan: January 19, 1996, unless a prior contract sanctity date applies (e.g., items first controlled to Sudan for foreign policy reasons under EAA section 6(j) have a contract sanctity date of December 28, 1993).

(iv) *North Korea*. Applications for military end-users or for military end-uses in North Korea of these items will generally be denied. Applications for non-military end-users or for non-military end-uses will be considered on a case-by-case basis.

(34) *High strength organic and inorganic fibers (kevlar) described in ECCN 1C210*.

(i) [Reserved]

(ii) *Syria*. Applications for military end-users or for military end-uses in Syria of such fibers will generally be denied. Applications for non-military end-users or for non-military end-uses will be considered on a case-by-case basis.

(A) Contract sanctity date for high strength organic and inorganic fibers (kevlar) described in ECCN 1C210 that were subject to national security controls on August 28, 1991: see paragraph (c)(1)(ii) of this Supplement.

(B) Contract sanctity date for all other high strength organic and inorganic fibers (kevlar) described in ECCN 1C210: August 28, 1991.

(iii) *Sudan*. Applications for military end-users or for military end-uses in Sudan of such fibers will generally be denied. Applications for non-military end-users or for non-military end-uses in Sudan will be considered on a case-by-case basis. Contract sanctity date for Sudan: January 19, 1996, unless a prior contract sanctity date applies (e.g., items first controlled to Sudan for foreign policy reasons under EAA section 6(j) have a contract sanctity date of December 28, 1993).

(iv) *North Korea*. Applications for military end-users or for military end-uses, or for nuclear end-users or nuclear end-uses, in North Korea of such equipment will generally be denied. Applications for non-military end-users or for non-military end-uses, or for non-nuclear end-users or non-nuclear end-uses, in North Korea will be considered on a case-by-case basis.

(35) *Machines described in ECCNs 2B003 and 2B993 for cutting gears up to 1.25 meters in diameter*.

(i) [Reserved]

(ii) *Syria*. Applications for military end-users or for military end-uses in Syria of these items will generally be denied. Applications for non-military end-users or for non-military end-uses will be considered on a case-by-case basis.

(A) Contract sanctity date for machines that were subject to national security controls on August 28, 1991: see paragraph (c)(1)(ii) of this Supplement.

(B) Contract sanctity date for all other machines: August 28, 1991.

(iii) *Sudan*. Applications for military end-users or for military end-uses in Sudan of these items will generally be denied. Applications for non-military end-users or for non-military end-uses in Sudan will be considered on a case-by-case basis. Contract sanctity date for Sudan: January 19, 1996, unless a prior contract sanctity date applies (e.g., items first controlled to Sudan for foreign policy reasons under EAA section 6(j) have a contract sanctity date of December 28, 1993).

(iv) *North Korea*. Applications for military end-users or for military end-uses in North Korea of these items will generally be denied. Applications for non-military end-users or for non-military end-uses will be considered on a case-by-case basis.

(36) *Aircraft skin and spar milling machines*.

(i) [Reserved]

(ii) *Syria*. Applications for military end-users or for military end-uses in Syria of these items will generally be denied. Applications for non-military end-users or for non-military end-uses will be considered on a case-by-case basis.

(A) Contract sanctity date for aircraft skin and spar milling machines that were subject to national security controls on August 28, 1991: see paragraph (c)(1)(ii) of this Supplement.

(B) Contract sanctity date for all other aircraft skin and spar milling machines: August 28, 1991.

(iii) *Sudan*. Applications for military end-users or for military end-uses in Sudan of these items will generally be denied. Applications for non-military end-users or for

non-military end-uses in Sudan will be considered on a case-by-case basis. Contract sanctity date for Sudan: January 19, 1996, unless a prior contract sanctity date applies (e.g., items first controlled to Sudan for foreign policy reasons under EAA section 6(j) have a contract sanctity date of December 28, 1993).

(iv) *North Korea*. Applications for all end-users in North Korea of such equipment will generally be denied.

(37) *Manual dimensional inspection machines described in ECCN 2B996*.

(i) [Reserved]

(ii) *Syria*. Applications for military end-users or for military end-uses in Syria of these items will generally be denied. Applications for non-military end-users or for non-military end-uses in Syria will be considered on a case-by-case basis.

(A) Contract sanctity date for such manual dimensional inspection machines that were subject to national security controls on August 28, 1991: see paragraph (c)(1)(ii) of this Supplement.

(B) Contract sanctity date for all other such manual dimensional inspection machines: August 28, 1991.

(iii) *Sudan*. Applications for military end-users or for military end-uses in Sudan of these items will generally be denied. Applications for non-military end-users or for non-military end-uses in Sudan will be considered on a case-by-case basis. Contract sanctity date for Sudan: January 19, 1996, unless a prior contract sanctity date applies (e.g., items first controlled to Sudan for foreign policy reasons under EAA section 6(j) have a contract sanctity date of December 28, 1993).

(iv) *North Korea*. Applications for military end-users or for military end-uses, or for nuclear end-users or nuclear end-uses, in North Korea of such equipment will generally be denied. Applications for non-military end-users or for non-military end-uses, or for non-nuclear end-users or non-nuclear end-uses, in North Korea will be considered on a case-by-case basis.

(38) *Robots capable of employing feedback information in real time processing to generate or modify programs*.

(i) [Reserved]

(ii) *Syria*. Applications for military end-users or for military end-uses in Syria of these items will generally be denied. Applications for non-military end-users or for non-military end-uses in Syria will be considered on a case-by case basis.

(A) Contract sanctity date for such robots that were subject to national security controls on August 28, 1991: see paragraph (c)(1)(ii) of this Supplement.

(B) Contract sanctity date for all other such robots: August 28, 1991.

(iii) *Sudan*. Applications for military end-users or for military end-uses in Sudan of these items will generally be denied. Applications for non-military end-users or for non-military end-uses in Sudan will be considered on a case-by-case basis. Contract sanctity date for Sudan: January 19, 1996, unless a prior contract sanctity date applies (e.g., items first controlled to Sudan for foreign policy reasons under EAA section 6(j) have a contract sanctity date of December 28, 1993).

(iv) *North Korea*. Applications for military end-users or for military end-uses, or for nuclear end-users or nuclear end-uses, in North Korea of such equipment will generally be denied. Applications for non-military end-users or for non-military end-uses, or for non-nuclear end-users or non-nuclear end-uses, in North Korea will be considered on a case-by-case basis.

(39) *Explosives detection equipment described in ECCN 2A983*—(i) Explosives detection equipment described in ECCN 2A983, controlled prior to April 3, 2003 under ECCN 2A993.

(A) [Reserved]

(B) *Syria*. Applications for all end-users in Syria of these items will generally be denied. Contract sanctity date: January 19, 1996.

(C) *Sudan*. Applications for all end-users in Sudan of these items will generally be denied. Contract sanctity date: January 19, 1996.

(D) *North Korea*. Applications for all end-users in North Korea of these items will generally be denied.

(ii) Explosives detection equipment described in ECCN 2A983, not controlled prior to April 3, 2003 under ECCN 2A993.

(A) [Reserved]

(B) *Syria*. Applications for all end-users in Syria of these items will generally be denied. Contract sanctity date: March 21, 2003.

(C) *Sudan*. Applications for all end-users in Sudan of these items will generally be denied. Contract sanctity date for reexports by non-U.S. persons: March 21, 2003.

(D) *North Korea*. Applications for all end-users in North Korea of these items will generally be denied. Contract sanctity date: March 21, 2003.

(40) *''Software'' described in ECCN 2D983 specially designed or modified for the ''development'', ''production'' or ''use'' of explosives detection equipment*.

(i) [Reserved]

(ii) *Syria*. Applications for all end-users in Syria of these items will generally be denied. Contract sanctity date: March 21, 2003.

(iii) *Sudan*. Applications for all end-users in Sudan of these items will generally be denied. Contract sanctity date for reexports by non-U.S. persons: March 21, 2003.

(iv) *North Korea*. Applications for all end-users in North Korea of these items will generally be denied. Contract sanctity date: March 21, 2003.

(41) *''Technology'' described in ECCN 2E983 specially designed or modified for the ''development'', ''production'' or ''use'' of explosives detection equipment.*

(i) [Reserved]

(ii) *Syria.* Applications for all end-users in Syria of these items will generally be denied. Contract sanctity date: March 21, 2003.

(iii) *Sudan.* Applications for all end-users in Sudan of these items will generally be denied. Contract sanctity date for reexports by non-U.S. persons: March 21, 2003.

(iv) *North Korea.* Applications for all end-users in North Korea of these items will generally be denied. Contract sanctity date: March 21, 2003.

(42) *Production technology controlled under ECCN 1C355 on the CCL—*

(i) [Reserved]

(ii) *Syria.* Applications for military end-users or for military end-uses in Syria of these items will generally be denied. Applications for non-military end-users or for non-military end-uses in Syria will be considered on a case-by-case basis.

(iii) *Sudan.* Applications for all end-users in Sudan of these items will generally be denied.

(iv) *North Korea.* Applications for military end-users or for military end-uses in North Korea of these items will generally be denied. Applications for non-military end-users or for non-military end-uses will be considered on a case-by-case basis.

(43) *Commercial Charges and devices controlled under ECCN 1C992 on the CCL.*

(i) [Reserved]

(ii) *Syria.* Applications for all end-users in Syria of these items will generally be denied.

(iii) *Sudan.* Applications for all end-users in Sudan of these items will generally be denied.

(iv) *North Korea.* Applications for all end-users in North Korea of these items will generally be denied.

(44) *Ammonium nitrate, including certain fertilizers containing ammonium nitrate, under ECCN 1C997 on the CCL*

(i) [Reserved]

(ii) *Syria.* Applications for all end-users in Syria of these items will generally be denied. Contract sanctity date: June 15, 2001.

(iii) *Sudan.* Applications for all end-users in Sudan of these items will generally be denied.

(iv) *North Korea.* Applications for all end-users in North Korea of these items will generally be denied. Contract sanctity date: June 15, 2001.

(45) *Specific processing equipment, materials and software controlled under ECCNs 0A999, 0B999, 0D999, 1A999, 1C999, 1D999, 2A999, 2B999, 3A999, and 6A999 on the CCL.*

(i) *North Korea.* Applications for military end-users or for military end-uses, or for nuclear end-users or nuclear end-uses, in North Korea of such equipment will generally be denied. Applications for non-military end-users or for non-military end-uses, or for non-nuclear end-users or non-nuclear end-uses, in North Korea will be considered on a case-by-case basis.

(ii) [Reserved]

(46) *Concealed object detection equipment described in ECCN 2A984.*

(i) *Syria.* Applications for all end-users in Syria of these commodities will generally be denied. Contract sanctity date: March 19, 2010.

(ii) *Sudan.* Applications for all end-users in Sudan of these commodities will generally be denied. Contract sanctity date: March 19, 2010.

(iii) *North Korea.* Applications for all end-users in North Korea of these commodities will generally be denied. Contract sanctity date: March 19, 2010.

(47) *''Software'' described in ECCN 2D984 ''required'' for the ''development'', ''production'' or ''use'' of concealed object detection equipment controlled by 2A984.*

(i) *Syria.* Applications for all end-users in Syria of these software will generally be denied. Contract sanctity date: March 19, 2010.

(ii) *Sudan.* Applications for all end-users in Sudan of these software will generally be denied. Contract sanctity date: March 19, 2010.

(iii) *North Korea.* Applications for all end-users in North Korea of these software will generally be denied. Contract sanctity date: March 19, 2010.

(48) *''Technology'' described in ECCN 2E984 ''required'' for the ''development'', ''production'' or ''use'' of concealed object detection equipment controlled by 2A984, or the ''development'' of ''software'' controlled by 2D984.*

(i) *Syria.* Applications for all end-users in Syria of these items will generally be denied. Contract sanctity date: March 19, 2010.

(ii) *Sudan.* Applications for all end-users in Sudan of these items will generally be denied. Contract sanctity date: March 19, 2010.

(iii) *North Korea.* Applications for all end-users in North Korea of these items will generally be denied. Contract sanctity date: March 19, 2010.

[69 FR 23630, Apr. 29, 2004, as amended at 69 FR 46076, July 30, 2004; 70 FR 14391, Mar. 22, 2005; 71 FR 20885, Apr. 24, 2006; 71 FR 51718, Aug. 31, 2006; 72 FR 20223, Apr. 24, 2007; 72 FR 62532, Nov. 5, 2007; 74 FR 2357, Jan. 15, 2009; 75 FR 14340, Mar. 25, 2010; 80 FR 43318, July 22, 2015]

SUPPLEMENT NOS. 3–5 TO PART 742 [RESERVED]

SUPPLEMENT NO. 6 TO PART 742—TECHNICAL QUESTIONNAIRE FOR ENCRYPTION AND OTHER ''INFORMATION SECURITY'' ITEMS

(a) For all items:

(1) State the name(s) of each product being submitted for classification or other consideration (as a result of a request by BIS) and provide a brief non-technical description of the type of product (e.g., routers, disk drives, cell phones, and chips) being submitted, and provide brochures, data sheets, technical specifications or other information that describes the item(s).

(2) Indicate whether there have been any prior classifications of the product(s), if they are applicable to the current submission. For products with minor changes in encryption functionality, you must include a cover sheet with complete reference to the previous review (Commodity Classification Automated Tracking System (CCATS) number, Export Control Classification Number (ECCN), authorization paragraph) along with a clear description of the changes.

(3) Describe how encryption is used in the product and the categories of encrypted data (e.g., stored data, communications, management data, and internal data).

(4) For 'mass market' encryption products, describe specifically to whom and how the product is being marketed and state how this method of marketing and other relevant information (e.g., cost of product and volume of sales) are described by the Cryptography Note (Note 3 to Category 5, Part 2).

(5) Is any ''encryption source code'' being provided (shipped or bundled) as part of this offering? If yes, is this source code publicly available source code, unchanged from the code obtained from an open source Web site, or is it proprietary ''encryption source code?''

(b) For classification requests and other submissions, provide the following information

(1) Description of all the symmetric and asymmetric encryption algorithms and key lengths and how the algorithms are used, including relevant parameters, inputs and settings. Specify which encryption modes are supported (e.g., cipher feedback mode or cipher block chaining mode).

(2) Describe how encryption keys are generated or managed by your product, including algorithms and modulus sizes supported.

(3) Describe whether the products incorporate or use ''non-standard cryptography'' defined as incorporating or using proprietary, unpublished cryptographic functionality, including encryption algorithms or protocols that have not been adopted or approved by a duly recognized international standards body. Provide a textual description and the source code of the algorithm.

(4) Describe the pre-processing methods (e.g., data compression or data interleaving) that are applied to the plaintext data prior to encryption.

(5) Describe the post-processing methods (e.g., packetization, encapsulation) that are applied to the cipher text data after encryption.

(6) State all communication protocols (*e.g.*, X.25, Telnet, TCP, IEEE 802.11, IEEE 802.16, SIP . . .) and cryptographic protocols and methods (*e.g.*, SSL, TLS, SSH, IPSEC, IKE, SRTP, ECC, MD5, SHA, X.509, PKCS standards . . .), including application programming interfaces (APIs), that are supported and describe how they are used.

(7) State how the product is written to preclude user modification of the encryption algorithms, key management and key space.

(8) Describe the cryptographic functionality that is provided by third-party hardware or software encryption components (if any). Identify the manufacturers of the hardware or software components, including specific part numbers and version information as needed to describe the product. Describe whether the encryption software components (if any) are statically or dynamically linked.

(9) Identify the version(s) and type(s) of compilers, runtime interpreters or code assemblers used, as applicable.

(10) With respect to your company's encryption products, are any of the products (or its encryption components) manufactured outside the United States? If yes, provide manufacturing locations (city and country).

(11) See §740.17(b)(2) of the EAR. Describe whether the item meets any of the §740.17(b)(2) criteria. Provide a comparison of your item against the criteria listed in each paragraph of §740.17(b)(2). Give specific data for each of the parameters listed, as applicable (*e.g.*, maximum aggregate encrypted throughput, maximum number of encrypted endpoints, maximum satellite or terrestrial wireless transmission rates, terrestrial wireless operating range, customized cryptography, network penetration capability, cryptanalytic capability and ''non-standard cryptography'').

(12) See §740.17(b)(3) of the EAR. Describe whether the product meets any of the criteria described under each of the paragraphs in §740.17(b)(3) (*e.g.*, chip, chipset, electronic assembly, programmable logic device, cryptographic library, cryptographic development kit, ''non-standard cryptography,'' digital forensics, and ''cryptographic activation'').

(13) See §740.17(b)(2)(iii) of the EAR. For products which incorporate an ''open cryptographic interface'' as defined in part 772 of the EAR, describe the cryptographic interface.

(14) For products with IPsec capabilities:

(i) Please describe your product's implementation of IKE vendor IDs, including vendor specific and capability IDs; and

(ii) Please specify which version of IKE you use (IKEv1 or IKEv2).

(c) For classification requests for hardware or software ''encryption components'' other than source code (*i.e.*, chips, toolkits, executable or linkable modules intended for use in or production of another encryption item) provide the following additional information:

(1) Reference the application for which the components are used in, if known;

(2) State if there is a general programming interface to the component;

(3) State whether the component is constrained by function; and

(4) Identify the encryption component and include the name of the manufacturer, component model number or other identifier.

(d) For classification requests for ''encryption source code'' provide the following information:

(1) If applicable, reference the executable (object code) product that was previously classified by BIS;

(2) Include whether the source code has been modified, and the technical details on how the source code was modified; and

(3) Upon request, include a copy of the sections of the source code that contain the encryption algorithm, key management routines and their related calls.

[75 FR 36497, June 25, 2010, as amended at 81 FR 64674, Sept. 20, 2016]

SUPPLEMENT NO. 7 TO PART 742—DESCRIPTION OF MAJOR WEAPONS SYSTEMS

(1) Battle Tanks: Tracked or wheeled self-propelled armored fighting vehicles with high cross-country mobility and a high-level of self protection, weighing at least 16.5 metric tons unladen weight, with a high muzzle velocity direct fire main gun of at least 75 millimeters caliber.

(2) Armored Combat Vehicles: Tracked, semi-tracked, or wheeled self-propelled vehicles, with armored protection and cross-country capability, either designed and equipped to transport a squad of four or more infantrymen, or armed with an integral or organic weapon of a least 12.5 millimeters caliber or a missile launcher.

(3) Large-Caliber Artillery Systems: Guns, howitzers, artillery pieces combining the characteristics of a gun or a howitzer, mortars or multiple-launch rocket systems, capable of engaging surface targets by delivering primarily indirect fire, with a caliber of 75 millimeters and above.

(4) Combat Aircraft: Fixed-wing or variable-geometry wing aircraft designed, equipped, or modified to engage targets by employing guided missiles, unguided rockets, bombs, guns, cannons, or other weapons of destruction, including versions of these aircraft which perform specialized electronic warfare, suppression of air defense or reconnaissance missions. The term ''combat aircraft'' does not include primary trainer aircraft, unless designed, equipped, or modified as described above.

(5) Attack Helicopters: Rotary-wing aircraft designed, equipped or modified to engage targets by employing guided or unguided anti-armor, air-to-surface, air-to-subsurface, or air-to-air weapons and equipped with an integrated fire control and aiming system for these weapons, including versions of these aircraft that perform specialized reconnaissance or electronic warfare missions.

(6) Warships: Vessels or submarines armed and equipped for military use with a standard displacement of 750 metric tons or above, and those with a standard displacement of less than 750 metric tons that are equipped for launching missiles with a range of at least 25 kilometers or torpedoes with a similar range.

(7) Missiles and Missile Launchers:

(a) Guided or unguided rockets, or ballistic, or cruise missiles capable of delivering a warhead or weapon of destruction to a range of at least 25 kilometers, and those items that are designed or modified specifically for launching such missiles or rockets, if not covered by systems identified in paragraphs (1) through (6) of this Supplement. For purposes of this rule, systems in this paragraph include remotely piloted vehicles with the characteristics for missiles as defined in this paragraph but do not include ground-to-air missiles;

(b) Man-Portable Air-Defense Systems (MANPADS); or

(c) Unmanned Aerial Vehicles (UAVs) of any type, including sensors for guidance and control of these systems, except model airplanes.

(8) Offensive Space Weapons: Systems or capabilities that can deny freedom of action in space for the United States and its allies or hinder the United States and its allies from denying an adversary the ability to take action in space. This includes systems such as anti-satellite missiles, or other systems designed to defeat or destroy assets in space.

(9) Command, Control, Communications, Computer, Intelligence, Surveillance, and Reconnaissance (C4ISR): Systems that support military commanders in the exercise of authority and direction over assigned forces across the range of military operations; collect, process, integrate, analyze, evaluate, or interpret information concerning foreign countries or areas; systematically observe aerospace, surface or subsurface areas, places, persons, or things by visual, aural, electronic, photographic, or other means; and obtain, by visual observation or other detection methods, information about the activities and resources of an enemy or potential enemy, or secure data concerning the

meteorological, hydrographic, or geographic characteristics of a particular area, including Undersea communications. Also includes sensor technologies.

(10) Precision Guided Munitions (PGMs), including ''smart bombs'': Weapons used in precision bombing missions such as specially designed weapons, or bombs fitted with kits to allow them to be guided to their target.

(11) Night vision equipment: Any electro-optical device that is used to detect visible and infrared energy and to provide an image. This includes night vision goggles, forward-looking infrared systems, thermal sights, and low-light level systems that are night vision devices, as well as infrared focal plane array detectors and cameras specifically designed, developed, modified, or configured for military use; image intensification and other night sighting equipment or systems specifically designed, modified or configured for military use; second generation and above military image intensification tubes specifically designed, developed, modified, or configured for military use, and infrared, visible and ultraviolet devices specifically designed, developed, modified, or configured for military application.

[72 FR 33656, June 19, 2007, as amended at 73 FR 58037, Oct. 6, 2008]

SUPPLEMENT NO. 8 TO PART 742—SELF-CLASSIFICATION REPORT FOR ENCRYPTION ITEMS

This supplement provides certain instructions and requirements for self-classification reporting to BIS and the ENC Encryption Request Coordinator (Ft. Meade, MD) of encryption commodities, software and components exported or reexported pursuant to §740.17(b)(1) of the EAR. See §740.17(e)(3) of the EAR for additional instructions and requirements pertaining to this supplement, including when to report and how to report.

(a) *Information to report.* The following information is required in the file format as described in paragraph (b) of this supplement, for each encryption item subject to the requirements of this supplement and §§740.17(b)(1) and 740.17(e)(3) of the EAR:

(1) Name of product (50 characters or less).

(2) Model/series/part number (50 characters or less.) If necessary, enter 'NONE' or 'N/A'.

(3) Primary manufacturer (50 characters or less). Enter 'SELF' if you are the primary manufacturer of the item. If there are multiple manufacturers for the item but none is clearly primary, either enter the name of one of the manufacturers or else enter 'MULTIPLE'. If necessary, enter 'NONE' or 'N/A'.

(4) Export Control Classification Number (ECCN), selected from *one* of the following:

(i) 5A002

(ii) 5B002

(iii) 5D002

(iv) 5A992

(v) 5D992

(5) Encryption authorization type identifier, selected from *one* of the following, which denote eligibility under License Exception ENC §740.17(b)(1):

(i) ENC

(ii) MMKT

(6) Item type descriptor, selected from one of the following:

(i) Access point;

(ii) Cellular;

(iii) Computer or computing platforms;

(iv) Computer forensics;

(v) Cryptographic accelerator;

(vi) Data backup and recovery;

(vii) Database;

(viii) Disk/drive encryption;

(ix) Distributed computing;

(x) Email communications;

(xi) Fax communications;

(xii) File encryption;

(xiii) Firewall;

(xiv) Gateway;

(xv) Intrusion detection;

(xvi) Identity management;

(xvii) Key exchange;

(xviii) Key management;

(xix) Key storage;

(xx) Link encryption;

(xxi) Local area networking (LAN);

(xxii) Metropolitan area networking (MAN);

(xxiii) Mobility and mobile applications n.e.s.;

(xxiv) Modem;

(xxv) Multimedia n.e.s.;

(xxvi) Network convergence or infrastructure n.e.s.;

(xxvii) Network forensics;

(xxviii) Network intelligence;

(xxix) Network or systems management (OAM/OAM&P);

(xxx) Network security monitoring;

(xxxi) Network vulnerability and penetration testing;

(xxxii) Operating system;

(xxxiii) Optical networking;

(xxxiv) Radio communications;

(xxxv) Router;

(xxxvi) Satellite communications;

(xxxvii) Short range wireless n.e.s.;

(xxxviii) Storage Area Networking (SAN);

(xxxix) 3G/4G/5G/LTE/WiMAX;

(xl) Trusted computing;

(xli) Videoconferencing;

(xlii) Virtual private networking (VPN);

(xliii) Voice communications n.e.s.;

(xliv) Voice over Internet Protocol (VoIP);

(xlv) Wide Area Networking (WAN);

(xlvi) Wireless Local Area Networking (WLAN);

(xlvii) Wireless Personal Area Networking (WPAN);

(xlviii) Test equipment n.e.s.; or

(xlix) Other (please specify).

(7) Name of company or individual submitting the report (50 characters or less).

(8) Telephone number (50 characters or less).

(9) Email address (50 characters or less).

(10) Mailing address (50 characters or less).

(11) With respect to your company's encryption products, do they incorporate encryption components produced or furnished by non-U.S. sources or vendors? Enter 'YES', 'NO', or if necessary, 'N/A' (250 characters or less).

(12) With respect to your company's encryption products, are any of them manufactured in non-U.S. locations?'' If yes, list the non-U.S. manufacturing locations by city and country. If necessary, enter 'NONE' or 'N/A' (250 characters or less).

(b) *File format requirements.* (1) The information described in paragraph (a) of this supplement must be provided in tabular or spreadsheet form, as an electronic file in comma separated values format (.csv), only. No file formats other than .csv will be accepted, as your encryption self-classification report must be directly convertible to tabular or spreadsheet format, where each row (and all entries within a row) properly correspond to the appropriate encryption item.

NOTE TO PARAGRAPH (b)(1): An encryption self-classification report data table created and stored in spreadsheet format (e.g., file extension .xls, .numbers, .qpw, .wb*, .wrk, and .wks) can be converted and saved into a comma delimited file format directly from the spreadsheet program. This .csv file is then ready for submission.

(2) Each line of your encryption self-classification report (.csv file) must consist of twelve entries as further described in this supplement.

(3) The first line of the .csv file must consist of the following twelve entries (*i.e.*, match the following) without alteration or variation: PRODUCT NAME, MODEL NUMBER, MANUFACTURER, ECCN, AUTHORIZATION TYPE, ITEM TYPE, SUBMITTER NAME, TELEPHONE NUMBER, E-MAIL ADDRESS, MAILING ADDRESS, NON-U.S. COMPONENTS, NON-U.S. MANUFACTURING LOCATIONS.

NOTE TO PARAGRAPH (b)(3): These first twelve entries (*i.e.*, first row) of an encryption self-classification report in .csv format correspond to the twelve column headers of a spreadsheet data file. The responses provided under column headers 7 through 12 (SUBMITTER NAME through NON-U.S. MANUFACTURING LOCATIONS) relate to the company as a whole, and thus should be entered the same for each product (*i.e.*, only one point of contact, one 'YES' or 'NO' answer to whether any of the reported products incorporate non-U.S. sourced encryption components, and one list of non-U.S. manufacturing locations, is required for the report). However, even though the information is the same for each product, please duplicate this information into each row of the spreadsheet, leaving no entry blank, so each product has the same identifying company information.

(4) Each subsequent line of the .csv file must correspond to a single encryption item (or a distinguished series of products) as described in paragraph (c) of this supplement.

(5) Each line must consist of six entries as described in paragraph (a)(1), (a)(2), (a)(3), (a)(4), (a)(5), and (a)(6) of this supplement. No entries may be left blank. Each entry must be separated by a comma (,). Certain additional instructions are as follows:

(i) Line entries (a)(1) ('PRODUCT NAME') and (a)(4) ('ECCN') must be completed with relevant information.

(ii) For entries (a)(2) ('MODEL NUMBER') and (a)(3) ('MANUFACTURER'), if these entries do not apply to your item or situation you may enter 'NONE' or 'N/A'.

(iii) For entries (a)(5) ('AUTHORIZATION TYPE'), if none of the provided choices apply to your situation, you may enter 'OTHER'.

(6) Because of .csv file format requirements, the only permitted use of a comma is as the necessary separator between line entries. You may not use a comma for any other reason in your encryption self-classification report.

(c) *Other instructions.* (1) The information provided in accordance with this supplement and §§740.17(b)(1) and 740.17(e)(3) of the EAR must identify product offerings as they are typically distinguished in inventory, catalogs, marketing brochures and other promotional materials.

(2) For families of products where all the information described in paragraph (a) of this supplement is identical except for the model/series/part number (entry (a)(2)), you may list and describe these products with a single line in your .csv file using an appropriate model/series/part number identifier (*e.g.*, '300' or '3xx') for entry (a)(2), provided each line in your .csv file corresponds to a single product series (or product type) within an overall product family.

(3) For example, if Company A produces, markets and sells both a '100' ('1xx') and a '300' ('3xx') series of product, in its encryption self-classification report (.csv file) Company A must list the '100' product series in one line (with entry (a)(2) completed as '100' or '1xx') and the '300' product series in another line (with entry (a)(2) completed as '300' or '3xx'), even if the other required information is common to all products in the '100' and '300' series.

(4) Only products self-classified by the exporter or reexporter must be reported. Products submitted for classification by the Bureau of Industry and Security for which a CCATS is issued do not need to be reported.

[75 FR 36498, June 25, 2010, as amended at 81 FR 64675, Sept. 20, 2016]

PART 743—SPECIAL REPORTING AND NOTIFICATION

Sec.
743.1 Wassenaar Arrangement.
743.2 High performance computers: Post shipment verification reporting.
743.3 Thermal imaging camera reporting.
743.4 Conventional arms reporting.
743.5 Prior notifications to Congress of Exports of ''600 Series Major Defense Equipment.''

SUPPLEMENT NO. 1 TO PART 743—WASSENAAR ARRANGEMENT PARTICIPATING STATES

AUTHORITY: 50 U.S.C. 4601 *et seq.;* 50 U.S.C. 1701 *et seq.;* E.O. 13222, 66 FR 44025, 3 CFR, 2001 Comp., p. 783; E.O. 13637, 78 FR 16129, 3 CFR, 2014 Comp., p. 223; Notice of August 4, 2016, 81 FR 52587 (August 8, 2016).

§ 743.1 Wassenaar Arrangement.

(a) *Scope*. This section outlines special reporting requirements for exports of certain commodities, software and technology controlled under the Wassenaar Arrangement. Such reports must be submitted to BIS semiannually in accordance with the provisions of paragraph (f) of this section, and records of all exports subject to the reporting requirements of this section must be kept in accordance with part 762 of the EAR. This section does not require reports for reexports. This section is limited to the Wassenaar Arrangement reporting requirements for items listed on the Wassenaar Arrangement's Dual-Use list. For reporting requirements for conventional arms listed on the Wassenaar Arrangement Munitions List that are subject to the EAR (i.e., ''600 series'' ECCNs), see § 743.4 of this part for Wassenaar Arrangement and United Nations reporting requirements.

NOTE TO PARAGRAPH (a) OF THIS SECTION: For purposes of part 743, the term ''you'' has the same meaning as the term ''exporter'', as defined in part 772 of the EAR.

(b) *Requirements*. You must submit two (2) copies of each report required under the provisions of this section and maintain accurate supporting records (see § 762.2(b) of the EAR) for all exports of items specified in paragraph (c) of this section for the following:

(1) Exports authorized under License Exceptions GBS, CIV, TSR, LVS, APP, and the cooperating government portions (§ 740.11(c) of the EAR) of GOV (see part 740 of the EAR). Note that exports of technology and source code under License Exception TSR to foreign nationals located in the U.S. should not be reported; and

(2) [Reserved]

(3) Exports authorized under the Validated End-User authorization (see § 748.15 of the EAR).

(4) Exports authorized under License Exception STA (See § 740.20 of the EAR).

(c) *Items for which reports are required*. You must submit reports to BIS under the provisions of this section only for exports of items on the Sensitive List (see supplement no. 6 to part 774 of the EAR).

(d) *Country Exceptions*. You must report each export subject to the provisions of this section, except for exports to Wassenaar member countries, as identified in supplement no. 1 to part 743.

(e) *Information that must be included in each report*. (1) Each report submitted to BIS for items other than those identified in paragraph (e)(2) of this section must include the following information for each export during the time periods specified in paragraph (f) of this section:

(i) Export Control Classification Number and paragraph reference as identified on the Commerce Control List;

(ii) Number of units in the shipment; and

NOTE TO PARAGRAPH (e)(1)(ii): For exports of technology for which reports are required under § 743.1(c) of this section, the number of units in the shipment should be reported as one (1) for the initial export of the technology to a single ultimate consignee. Additional exports of the technology must be reported only when the type or scope of technology changes or exports are made to other ultimate consignees. Additionally, do not report the release of technology or source code subject to the EAR to foreign nationals in the U.S.

(iii) Country of ultimate destination.

(2) [Reserved]

(f) *Frequency and timing of reports.* You must submit reports subject to the provisions of this section semiannually. The reports must be labeled with the exporting company's name and address at the top of each page and must include for each such export all the information specified in paragraph (e) of this section. The reports shall cover exports made during six month time periods spanning from January 1 through June 30 and July 1 through December 31.

(1) The first report must be submitted to and received by BIS no later than August 1, 1998 for the partial reporting period beginning January 15, 1998 and ending June 30, 1998. Thereafter, reports are due according to the provisions of paragraphs (f)(2) and (f)(3) of this section.

(2) Reports for the reporting period ending June 30 must be submitted to and received by BIS no later than August 1.

(3) Reports for the reporting period ending December 31 must be submitted to and received by BIS no later than February 1.

(g) *Where to submit Wassenaar reports*—(1) *Email.* Reports may be Emailed to *WAreports@bis.doc.gov.*

(2) *Mail.* If mailed, two (2) copies of reports are required to be delivered via courier to: Bureau of Industry and Security, U.S. Department of Commerce, Attn: ''Wassenaar Reports'', Room 2099B, 14th Street and Pennsylvania Ave. NW., Washington, DC 20230. BIS will not accept reports sent C.O.D.

(3) *Facsimile.* Reports may also be sent by facsimile to: (202) 482–3345 or 202–482–1373, Attn: ''Wassenaar Reports''.

(h) *Contacts.* General information concerning the Wassenaar Arrangement and reporting obligations thereof is available from the Office of National Security and Technology Transfer Controls, Tel. (202) 482–4479, Fax: (202) 482–3345 or (202) 482–1373, or Email: *WAreports@bis.doc.gov.*

[63 FR 2458, Jan. 15, 1998]

EDITORIAL NOTE: For FEDERAL REGISTER citations affecting §743.1, see the List of CFR Sections Affected, which appears in the Finding Aids section of the printed volume and at *www.fdsys.gov.*

§ 743.2 High performance computers: Post shipment verification reporting.

(a) *Scope.* This section outlines special post-shipment reporting requirements for exports of certain computers to destinations in Computer Tier 3, see §740.7(d) for a list of these destinations. Post-shipment reports must be submitted in accordance with the provisions of this section, and all relevant records of such exports must be kept in accordance with part 762 of the EAR.

(b) *Requirement.* Exporters must file post-shipment reports and keep records in accordance with recordkeeping requirements in part 762 of the EAR for high performance computer exports to destinations in Computer Tier 3, as well as, exports of commodities used to enhance computers previously exported or reexported to Computer Tier 3 destinations, where the ''Adjusted Peak Performance'' (''APP'') is greater than that listed in ECCN 4A003.b in the Commerce Control List, supplement no. 1 to part 774 of the EAR.

(c) *Information that must be included in each post-shipment report.* No later than the last day of the month following the month in which the export takes place, the exporter must submit the following information to BIS at the address listed in paragraph (d) of this section:

(1) Exporter name, address, and telephone number;

(2) License number;

(3) Date of export;

(4) End-user name, point of contact, address, telephone number;

(5) Carrier;

(6) Air waybill or bill of lading number;

(7) Commodity description, quantities—listed by model numbers, serial numbers, and APP level in WT; and

(8) Certification line for exporters to sign and date. The exporter must certify that the information contained in the report is accurate to the best of his or her knowledge.

NOTE TO PARAGRAPH (c) OF THIS SECTION: Exporters are required to provide the PRC End-User Certificate Number to BIS as part of their post-shipment report. When providing the PRC End-User Certificate Number to BIS, you must identify the transaction in the post shipment report to which that PRC End-User Certificate Number applies.

(d) *Address*. A copy of the post-shipment report(s) required under paragraph (b) of this section shall be delivered, via courier, to: U.S. Department of Commerce, Office of Enforcement Analysis, HPC Team, 14th Street and Constitution Ave., NW., Room 4065, Washington, DC 20230. Note that BIS will not accept reports sent C.O.D.

[71 FR 20886, Apr. 24, 2006, as amended at 73 FR 35, Jan. 2, 2008; 76 FR 36988, June 24, 2011; 77 FR 39369, July 2, 2012; 79 FR 45296, Aug. 4, 2014; 81 FR 64675, Sept. 20, 2016]

§ 743.3 Thermal imaging camera reporting.

(a) *General requirement*. Exports of thermal imaging cameras must be reported to BIS as provided in this section.

(b) *Transactions to be reported*. Exports that are not authorized by an individually validated license of thermal imaging cameras controlled by ECCN 6A003.b.4.b to a destination in Country Group A:1 (see supplement no. 1 to part 740 of the EAR), except Canada, must be reported to BIS.

(c) *Party responsible for reporting*. The exporter as defined in § 772.1 of the EAR must ensure the reports required by this section are submitted to BIS.

(d) *Information to be included in the reports*. For each export described in paragraph (b) of this section, the report must identify: the name, address, and telephone number of the exporter; the date of each export; the name, address and telephone number of the consignee or end user; the model number(s) of each camera exported; the serial number of each exported camera that has a serial number; and the quantity of each model number of camera exported. (NOTE: Technical specifications may be requested on an as needed basis and must be provided to BIS after any such request.)

(e) *Where to submit reports*. Submit the reports via e-mail to *UTICreport@bis.doc.gov*.

(f) *Reporting periods and due dates*. This reporting requirement applies to exports made on or after May 22, 2009. Exports must be reported within one month of the reporting period in which the export takes place. The first reporting period begins on May 22, 2009 and runs through June 30, 2009. Subsequent reporting periods shall begin on January 1 and July 1 of each year, and shall run through June 30, and December 31 respectively. Exports in each reporting period must be reported to BIS no later than the last day of the month following the month in which the reporting period ends.

[74 FR 23947, May 22, 2009, as amended at 74 FR 68146, Dec. 23, 2009; 76 FR 58397, Sept. 21, 2011; 80 FR 29444, May 21, 2015; 80 FR 75635, Dec. 3, 2015]

§ 743.4 Conventional arms reporting.

(a) *Scope*. This section outlines special reporting requirements for exports of certain items listed on the Wassenaar Arrangement Munitions List and the UN Register of Conventional Arms. Participating States of the Wassenaar Arrangement exchange information every six months on deliveries to non-participating states of conventional arms set forth in the *Wassenaar Arrangement's Basic Documents* under Part II Guideline and Procedures, including the Initial Elements, Appendix 3: Specific Information Exchange on Arms Content by Category (at *www.wassenaar.org*), derived from the categories of the UN Register of Conventional Arms (at *www.un.org/disarmament /convarms/Register/*). Similar, although not identical, information is also reported by the U.S. Government to the United Nations on an annual basis. The reported information should include the quantity and the name of the recipient state and, except in the category of missiles and missile launchers, details of model and type. Such reports must be submitted to BIS semi-annually in accordance with the provisions of paragraph (f) of this section for items identified in paragraph (c)(1) and annually for items identified in paragraph (c)(2), and records of all exports subject to the reporting requirements of this section must be kept in accordance with part 762 of the EAR. This section does not require reports for reexports or transfers (in-country).

NOTE TO PARAGRAPH (a): For purposes of § 743.4, the term ''you'' has the same meaning as the term ''exporter'', as defined in part 772 of the EAR.

(b) *Requirements*. You must submit one electronic copy of each report required under the provisions of this section and maintain accurate supporting records (see § 762.2(b) of the EAR) for all exports of items specified in paragraph (c) of this section for the following:

(1) Exports authorized under License Exceptions LVS, TMP, RPL, STA, or GOV (see part 740 of the EAR);

(2) [Reserved]

(3) Exports authorized under the Validated End User authorization (see § 748.15 of the EAR).

(c) *Items for which reports are required*—(1) *Wassenaar Arrangement reporting*. You must submit reports to BIS under the provisions of this section only for exports of items classified under the following ECCNs:

(i)–(ii) [Reserved]

(2) *United Nations reporting*. You must submit reports to BIS under the provisions of this section only for exports of items classified under the following ECCNs:

(i)–(ii) [Reserved]

(d) *Country Exceptions for Wassenaar Arrangement reporting*. You must report each export subject to the provisions of this section, except for exports to Wassenaar member countries, identified in supplement no. 1 to part 743 for reports required under paragraph (c)(1) of this section.

(e) *Information that must be included in each report*. (1) Each report submitted to BIS for items other than those identified in paragraph (e)(2) of this section must include the following information for each export during the time periods specified in paragraph (f) of this section:

(i) Export Control Classification Number and paragraph reference as identified on the Commerce Control List;

(ii) Number of units in the shipment; and

NOTE TO PARAGRAPH (e)(1)(ii): For exports of technology for which reports are required under § 743.1(c) of this section, the number of units in the shipment should be reported as one (1) for the initial export of the technology to a single ultimate consignee. Additional exports of the technology must be reported only when the type or scope of technology changes or exports are made to other ultimate consignees.

(iii) Country of ultimate destination.

(f) *Frequency and timing of reports*—(1) *Semi-annual reports for items identified in paragraph (c)(1) of this section*. You must submit reports subject to the provisions of this section semiannually. The reports must be labeled with the exporting company's name and address at the top of each page and must include for each such export all the information specified in paragraph (e) of this section. The reports shall cover exports made during six-month time periods from January 1 through June 30 and July 1 through December 31.

(i) The first report must be submitted to and received by BIS no later than 180 days after the effective date of the rule that revises paragraph (c)(1) of this section to add the ECCN for the item being reported. Thereafter, reports are due according to the provisions of paragraphs (f)(2) and (f)(3) of this section.

(ii) Reports for the reporting period ending June 30 must be submitted to and received by BIS no later than August 1.

(iii) Reports for the reporting period ending December 31 must be submitted to and received by BIS no later than February 1.

(2) *Annual reports for items identified in paragraph (c)(2) of this section*. You must submit reports subject to the provisions of this section annually. The reports must be labeled with the exporting company's name and address at the top of each page and must include for each such export all the information specified in paragraph (e) of this section. The reports shall cover exports made during twelve month time periods from January 1 through December 31.

(i) The first report must be submitted to and received by BIS no later than 180 days after the effective date of the rule that revises paragraph (c)(1) of this section to add the ECCN for the item being reported. Thereafter, reports are due according to the provisions of paragraph (f)(2) of this section.

(ii) Reports for the reporting period ending December 31 must be submitted to and received by BIS no later than February 1.

(g) *Submission of reports*. Information should be submitted in the form of a

spreadsheet and emailed to *WAreports@BIS.DOC.GOV* or *UNreports@BIS.DOC.GOV*.

(h) *Contacts*. General information concerning the Wassenaar Arrangement and reporting obligations thereof is available from the Office of National Security and Technology Transfer Controls, Tel. (202) 482–0092, Fax: (202) 482–4094.

[78 FR 22722, Apr. 16, 2013, as amended at 80 FR 51730, Aug. 26, 2015]

§ 743.5 Prior notifications to Congress of Exports of "600 Series Major Defense Equipment."

(a) *General requirement*. Applications to export items on the Commerce Control List that are ''600 Series Major Defense Equipment'' will be notified to Congress as provided in this section before licenses for such items are issued.

(1) Exports of ''600 Series Major Defense Equipment'' to U.S. Government end users under License Exception GOV (§ 740.11(b) of the EAR) do not require such notification.

(2) Exports of ''600 Series Major Defense Equipment'' that have been or will be described in a notification filed by the U.S. State Department under the Arms Export Control Act do not require such notification by BIS.

(b) BIS will notify Congress prior to issuing a license authorizing the export of items to a country *outside* the countries listed in Country Group A:5 (see supplement no. 1 to part 740 of the EAR) that are sold under a contract that includes $14,000,000 or more of ''600 Series Major Defense Equipment.''

(c) BIS will notify Congress prior to issuing a license authorizing the export of items to a country listed in Country Group A:5 (see supplement no. 1 to part 740 of the EAR) that are sold under a contract that includes $25,000,000 or more of ''600 Series Major Defense Equipment.''

(d) In addition to information required on the application, the exporter must include a copy of the signed contract (including a statement of the value of the ''600 Series Major Defense Equipment'' items to be exported under the contract) for any proposed export described in paragraphs (b) or (c) of this section.

(e) *Address*. Munitions Control Division at *bis.compliance@bis.doc.gov*.

[78 FR 22722, Apr. 16, 2013]

SUPPLEMENT NO. 1 TO PART 743—WASSENAAR ARRANGEMENT PARTICIPATING STATES

Argentina	Luxembourg
Australia	Malta
Austria	Mexico
Belgium	Netherlands
Bulgaria	New Zealand
Canada	Norway
Croatia	Poland
Czech Republic	Portugal
Denmark	Romania
Estonia	Russia
Finland	Slovakia
France	Slovenia
Germany	South Africa
Greece	South Korea
Hungary	Spain
Ireland	Sweden
Italy	Switzerland
Japan	Turkey
Latvia	Ukraine
Lithuania	United Kingdom
	United States

[63 FR 55020, Oct. 14, 1998, as amended at 70 FR 41102, July 15, 2005; 71 FR 52964; Sept. 7, 2006; 77 FR 39369, July 2, 2012]

PART 744—CONTROL POLICY: END-USER AND END-USE BASED

Sec.

744.1 General provisions.
744.2 Restrictions on certain nuclear end-uses.
744.3 Restrictions on Certain Rocket Systems (including ballistic missile systems and space launch vehicles and sounding rockets) and Unmanned Air Vehicles (including cruise missile systems, target drones and reconnaissance drones) End-Uses.
744.4 Restrictions on certain chemical and biological weapons end-uses.
744.5 Restrictions on certain maritime nuclear propulsion end-uses.
744.6 Restrictions on certain activities of U.S. persons.
744.7 Restrictions on certain exports to and for the use of certain foreign vessels or aircraft.
744.8 Restrictions on exports and reexports to persons designated pursuant to Executive Order 13382—Blocking Property of Weapons of Mass Destruction Proliferators and Their Supporters.
744.9 Restrictions on exports, reexports, and transfers (in-country) of certain cameras, systems, or related components.

744.10 Restrictions on certain entities in Russia.
744.11 License requirements that apply to entities acting contrary to the national security or foreign policy interests of the United States.
744.12 Restrictions on exports and reexports to persons designated in or pursuant to Executive Order 13224 (Specially Designated Global Terrorist) (SDGT).
744.13 Restrictions on exports and reexports to persons designated pursuant to Executive Order 12947 (Specially Designated Terrorist) (SDT).
744.14 Restrictions on exports and reexports to designated Foreign Terrorist Organizations (FTOs).
744.15 Restrictions on exports, reexports and transfers (in-country) to persons listed on the unverified list.
744.16 Entity List.
744.17 Restrictions on certain exports, reexports and transfers (in-country) of microprocessors and associated ''software'' and ''technology'' for ''military end uses'' and to ''military end users.''
744.18 Restrictions on exports, reexports, and transfers to persons designated in or pursuant to Executive Order 13315.
744.19 Licensing policy regarding persons sanctioned pursuant to specified statutes.
744.20 License requirements that apply to certain sanctioned entities.
744.21 Restrictions on certain 'Military end uses' in the People's Republic of China (PRC) or for a 'Military end use' or 'Military end user' in Russia or Venezuela.
744.22 [Reserved]
SUPPLEMENT NO. 1 TO PART 744—MILITARY END-USE EXAMPLES FOR § 744.17
SUPPLEMENT NO. 2 TO PART 744—LIST OF ITEMS SUBJECT TO THE MILITARY END-USE LICENSE REQUIREMENT OF § 744.21
SUPPLEMENT NO. 3 TO PART 744—COUNTRIES NOT SUBJECT TO CERTAIN NUCLEAR END-USE RESTRICTIONS IN § 744.2(a)
SUPPLEMENT NO. 4 TO PART 744—ENTITY LIST
SUPPLEMENT NO. 5 TO PART 744—PROCEDURES FOR END-USER REVIEW COMMITTEE ENTITY LIST DECISIONS
SUPPLEMENT NO. 6 TO PART 744—UNVERIFIED LIST
SUPPLEMENT NO. 7 TO PART 744—TEMPORARY GENERAL LICENSE

AUTHORITY: 50 U.S.C. 4601 *et seq.;* 50 U.S.C. 1701 *et seq.;* 22 U.S.C. 3201 *et seq.;* 42 U.S.C. 2139a; 22 U.S.C. 7201 *et seq.;* 22 U.S.C. 7210; E.O. 12058, 43 FR 20947, 3 CFR, 1978 Comp., p. 179; E.O. 12851, 58 FR 33181, 3 CFR, 1993 Comp., p. 608; E.O. 12938, 59 FR 59099, 3 CFR, 1994 Comp., p. 950; E.O. 12947, 60 FR 5079, 3 CFR, 1995 Comp., p. 356; E.O. 13026, 61 FR 58767, 3 CFR, 1996 Comp., p. 228; E.O. 13099, 63 FR 45167, 3 CFR, 1998 Comp., p. 208; E.O. 13222, 66 FR 44025, 3 CFR, 2001 Comp., p. 783; E.O. 13224, 66 FR 49079, 3 CFR, 2001 Comp., p. 786; Notice of November 12, 2015, 80 FR 70667 (November 13, 2015); Notice of January 20, 2016, 81 FR 3937 (January 22, 2016); Notice of August 4, 2016, 81 FR 52587 (August 8, 2016); Notice of September 15, 2016, 81 FR 64343 (September 19, 2016).

SOURCE: 61 FR 12802, Mar. 25, 1996, unless otherwise noted.

§ 744.1 General provisions.

(a)(1) *Introduction.* In this part, references to the EAR are references to 15 CFR chapter VII, subchapter C. This part contains prohibitions against exports, reexports, and selected transfers to certain end-users and end-uses as introduced under General Prohibition Five (End-use/End-users) and Nine (Orders, Terms, and Conditions), unless authorized by BIS. Sections 744.2, 744.3, 744.4 prohibit exports, reexports and transfers (in-country) of items subject to the EAR to defined nuclear, missile, and chemical and biological proliferation activities. Section 744.5 prohibits exports, reexports and transfers (in-country) of items subject to the EAR to defined nuclear maritime end-uses. Section 744.6 prohibits certain activities by U.S. persons in support of certain nuclear, missile, chemical, or biological end-uses. Section 744.7 prohibits exports and reexports of certain items for certain aircraft and vessels. Section 744.8 prohibits exports and reexports without authorization to certain parties who have been designated as proliferators of weapons of mass destruction or as supporters of such proliferators pursuant to Executive Order 13382. Section 744.10 prohibits exports and reexports of any item subject to the EAR to Russian entities, included in supplement no. 4 of this part. Section 744.11 imposes license requirements, to the extent specified in supplement no. 4 to this part on entities listed in supplement no. 4 to this part for activities contrary to the national security or foreign policy interests of the United States. Sections 744.12, 744.13 and 744.14 prohibit exports and reexports of any item subject to the EAR to persons designated as Specially Designated Global Terrorists, Specially Designated Terrorists, or Foreign Terrorist Organizations, respectively. Section 744.15 sets forth the conditions for exports, reexports, and transfers (in-

country) to persons listed on the Unverified List (UVL) in supplement no. 6 of this part, the criteria for revising the UVL, as well as procedures for requesting removal or modification of a listing on the UVL. Section 744.16 sets forth the license requirements, policies and procedures for the Entity List. Section 744.19 sets forth BIS's licensing policy for applications for exports or reexports when a party to the transaction is an entity that has been sanctioned pursuant to any of three specified statutes that require certain license applications to be denied. Section 744.20 requires a license, to the extent specified in supplement no. 4 to this part, for exports and reexports of items subject to the EAR destined to certain sanctioned entities listed in supplement no. 4 to this part. In addition, these sections include license review standards for export license applications submitted as required by these sections. It should also be noted that part 764 of the EAR prohibits exports, reexports and certain transfers of items subject to the EAR to denied parties. Section 744.21 imposes restrictions for exports, reexports and transfers (in-country) of specified items for certain 'military end uses' in the People's Republic of China (PRC) or for a 'military end use' or 'military end user' in Russia or Venezuela. Section 744.22 imposes restrictions on exports, reexports and transfers to persons whose property and interests in property are blocked pursuant to Executive Orders 13310, 13448, or 13464.

(2) If controls set forth under more than one section of part 744 apply to a person, the license requirements for such a person will be determined based on the requirements of all applicable sections of part 744, and license applications will be reviewed under all applicable licensing policies.

(b) *Steps*. The following are steps you should follow in using the provisions of this part:

(1) *Review end-use and end-user prohibitions*. First, review each end-use and end-user prohibition described in this part to learn the scope of these prohibitions.

(2) *Determine applicability*. Second, determine whether any of the end-use and end-user prohibitions described in this part are applicable to your planned export, reexport, transfer (in-country) or other activity. See supplement no. 1 to part 732 for guidance. For exports, reexports or transfers (in-country) that are in transit at the time you are informed by BIS that a license is required in accordance with § 744.2(b), § 744.3(b), § 744.4(b) or § 744.6(b) of the EAR, you may not proceed any further with the transaction unless you first obtain a license from BIS (see part 748 of the EAR for instructions on how to apply for a license). The provisions of § 748.4(d)(2) shall not apply to license applications submitted pursuant to a notification from BIS that occurs while an export, reexport, or transfer (in-country) is in transit.

[61 FR 12802, Mar. 25, 1996, as amended at 62 FR 51370, Oct. 1, 1997; 63 FR 64324, Nov. 19, 1998; 66 FR 50091, Oct. 1, 2001; 68 FR 34194, June 6, 2003; 69 FR 56694, Sept. 22, 2004; 69 FR 65369, Nov. 12, 2004; 70 FR 10867, Mar. 7, 2005; 73 FR 49321, Aug. 21, 2008; 73 FR 68325, Nov. 18, 2008; 74 FR 2357, Jan. 15, 2009; 74 FR 52884, Oct. 15, 2009; 74 FR 57062, Nov. 4, 2009; 75 FR 31681, June 4, 2010; 78 FR 76747, Dec. 19, 2013; 79 FR 77866, Dec. 29, 2014; 81 FR 64695, Sept. 20, 2016]

§ 744.2 Restrictions on certain nuclear end-uses.

(a) *General prohibition*. In addition to the license requirements for items specified on the CCL, you may not export, reexport, or transfer (in-country) to any destination, other than countries in supplement no. 3 to this part, an item subject to the EAR without a license if, at the time of export, reexport, or transfer (in-country) you know[1] that the item will be used directly or indirectly in any one or more of the following activities described in paragraphs (a)(1), (a)(2), and (a)(3) of this section:

(1) *Nuclear explosive activities*. Nuclear explosive activities, including research

[1] Part 772 of the EAR defines ''knowledge'' for all of the EAR except part 760, Restrictive Trade Practices and Boycotts. The definition, which includes variants such as ''know'' and ''reason to know'', encompasses more than positive knowledge. Thus, the use of ''know'' in this section in place of the former wording ''know or have reason to know'' does not lessen or otherwise change the responsibilities of persons subject to the EAR.

on or development, design, manufacture, construction, testing or maintenance of any nuclear explosive device, or components or subsystems of such a device.[2] [3]

(2) *Unsafeguarded nuclear activities.* Activities including research on, or development, design, manufacture, construction, operation, or maintenance of any nuclear reactor, critical facility, facility for the fabrication of nuclear fuel, facility for the conversion of nuclear material from one chemical form to another, or separate storage installation, where there is no obligation to accept International Atomic Energy Agency (IAEA) safeguards at the relevant facility or installation when it contains any source or special fissionable material (regardless of whether or not it contains such material at the time of export), or where any such obligation is not met.

(3) *Safeguarded and unsafeguarded nuclear activities.* Safeguarded and unsafeguarded nuclear fuel cycle activities, including research on or development, design, manufacture, construction, operation or maintenance of any of the following facilities, or components for such facilities:[4]

(i) Facilities for the chemical processing of irradiated special nuclear or source material;

(ii) Facilities for the production of heavy water;

(iii) Facilities for the separation of isotopes of source and special nuclear material; or

(iv) Facilities for the fabrication of nuclear reactor fuel containing plutonium.

(b) *Additional prohibition on persons informed by BIS.* BIS may inform persons, either individually by specific notice or through amendment to the EAR, that a license is required for a specific export, reexport, or transfer (in-country), or for the export, reexport, or transfer (in-country) of specified items to a certain end-user, because there is an unacceptable risk of use in, or diversion to, the activities specified in paragraph (a) of this section. Specific notice is to be given only by, or at the direction of, the Deputy Assistant Secretary for Export Administration. When such notice is provided orally, it will be followed by a written notice within two working days signed by the Deputy Assistant Secretary for Export Administration. However, the absence of any such notification does not excuse persons from compliance with the license requirements of paragraph (a) of this section.

(c) *Exceptions.* Despite the prohibitions described in paragraphs (a) and (b) of this section, you may export technology subject to the EAR under the *operation technology and software* or *sales technology and software provisions* of License Exception TSU (see § 740.13(a) and (b)), but only to and for use in countries listed in supplement no. 3 to part 744 of the EAR (Countries Not Subject to Certain Nuclear End-Use Restrictions in § 744.2(a)). Notwithstanding the provisions of part 740 of the EAR, the provisions of § 740.13(a) and (b) will only overcome General Prohibition Five for countries listed in supplement no. 3 to part 744 of the EAR.

(d) *License review standards.* The following factors are among those used by the United States to determine whether to grant or deny license applications required under this section:

(1) Whether the commodities, software, or technology to be transferred are appropriate for the stated end-use

[2] Nuclear explosive devices and any article, material, equipment, or device specifically designed or specially modified for use in the design, development, or fabrication of nuclear weapons or nuclear explosive devices are subject to export licensing or other requirements of the Directorate of Defense Trade Controls, U.S. Department of State, or the licensing or other restrictions specified in the Atomic Energy Act of 1954, as amended. Similarly, items specifically designed or specifically modified for use in devising, carrying out, or evaluating nuclear weapons tests or nuclear explosions (except such items as are in normal commercial use for other purposes) are subject to the same requirements.

[3] Also see §§ 744.5 and 748.4 of the EAR for special provisions relating to technical data for maritime nuclear propulsion plants and other commodities.

[4] Such activities may also require a specific authorization from the Secretary of Energy pursuant to § 57.b.(2) of the Atomic Energy Act of 1954, as amended, as implemented by the Department of Energy's regulations published in 10 CFR 810.

and whether that stated end-use is appropriate for the end-user;

(2) The significance for nuclear purposes of the particular commodity, software, or technology;

(3) Whether the commodities, software, or technology to be exported are to be used in research on or for the development, design, manufacture, construction, operation, or maintenance of any reprocessing or enrichment facility;

(4) The types of assurances or guarantees given against use for nuclear explosive purposes or proliferation in the particular case;

(5) Whether the end-user has been engaged in clandestine or illegal procurement activities;

(6) Whether an application for a license to export to the end-user has previously been denied, or whether the end-use has previously diverted items received under a license, License Exception, or NLR to unauthorized activities;

(7) Whether the export would present an unacceptable risk of diversion to a nuclear explosive activity or unsafeguarded nuclear fuel-cycle activity described in § 744.2(a) of the EAR;

(8) The nonproliferation credentials of the importing country, based on consideration of the following factors:

(i) Whether the importing country is a party to the Nuclear Non-Proliferation Treaty (NPT) or to the Treaty for the Prohibition of Nuclear Weapons in Latin America (Treaty of Tlatelolco) (see supplement no. 2 to part 742 of the EAR), or to a similar international legally-binding nuclear nonproliferation agreement;

(ii) Whether the importing country has all of its nuclear activities, facilities or installations that are operational, being designed, or under construction, under International Atomic Energy Agency (IAEA) safeguards or equivalent full scope safeguards;

(iii) Whether there is an agreement for cooperation in the civil uses of atomic energy between the U.S. and the importing country;

(iv) Whether the actions, statements, and policies of the government of the importing country are in support of nuclear nonproliferation and whether that government is in compliance with its international obligations in the field of nonproliferation;

(v) The degree to which the government of the importing country cooperates in nonproliferation policy generally (e.g., willingness to consult on international nonproliferation issues);

(vi) Intelligence data on the importing country's nuclear intentions and activities; and

(9) Whether the recipient state has sufficient national export controls (as described in paragraph 3 of United Nations Security Council Resolution 1540 (2004)) to prevent an unacceptable risk of retransfer or diversion to a nuclear explosive activity or unsafeguarded nuclear fuel-cycle activity described in § 744.2(a) of the EAR.

[61 FR 12802, Mar. 25, 1996, as amended at 61 FR 64284, Dec. 4, 1996; 62 FR 25459, May 9, 1997; 67 FR 55598, Aug. 29, 2002; 73 FR 68326, Nov. 18, 2008; 79 FR 46324, Aug. 7, 2014]

§ 744.3 Restrictions on Certain Rocket Systems (including ballistic missile systems and space launch vehicles and sounding rockets) and Unmanned Air Vehicles (including cruise missile systems, target drones and reconnaissance drones) End-Uses.

(a) *General prohibition*. In addition to the license requirements for items specified on the CCL, you may not export, reexport, or transfer (in-country) an item subject to the EAR without a license if, at the time of export, reexport or transfer (in-country) you know that the item:

(1) Will be used in the design, development, production or use of rocket systems or unmanned air vehicles capable of a range of at least 300 kilometers in or by a country listed in Country Group D:4 of supplement no. 1 to part 740 of the EAR.

(2) Will be used, anywhere in the world except by governmental programs for nuclear weapons delivery of NPT Nuclear Weapons States that are also member of NATO, in the design, development, production or use of rocket systems or unmanned air vehicles, regardless of range capabilities, for the delivery of chemical, biological, or nuclear weapons; or

(3) Will be used in the design, development, production or use of any rocket systems or unmanned air vehicles in

or by a country listed in Country Group D:4, but you are unable to determine:

(i) The characteristics (*i.e.*, range capabilities) of the rocket systems or unmanned air vehicles, or

(ii) Whether the rocket systems or unmanned air vehicles, regardless of range capabilities, will be used in a manner prohibited under paragraph (a)(2) of this section.

NOTE TO PARAGRAPH (a) OF THIS SECTION: For the purposes of this section, ''Rocket Systems'' include, but are not limited to, ballistic missile systems, space launch vehicles, and sounding rockets. Also, for the purposes of this section, ''unmanned air vehicles'' include, but are not limited to, cruise missile systems, target drones and reconnaissance drones.

(b) *Additional prohibition on persons informed by BIS.* BIS may inform persons, either individually by specific notice or through amendment to the EAR, that a license is required for a specific export, reexport or transfer (in-country) or for the export, reexport, or transfer (in-country) of specified items to a certain end-user, because there is an unacceptable risk of use in, or diversion to, the activities specified in paragraphs (a)(1) or (a)(2) of this section. Specific notice is to be given only by, or at the direction of, the Deputy Assistant Secretary for Export Administration. When such notice is provided orally, it will be followed by a written notice within two working days signed by the Deputy Assistant Secretary for Export Administration. However, the absence of any such notification does not excuse persons from compliance with the license requirements of paragraphs (a)(1), (a)(2), or (a)(3) of this section.

(c) *Exceptions.* No License Exceptions apply to the prohibitions described in paragraph (a) and (b) of this section.

(d) *License review standards.* (1) Applications to export, reexport or transfer (in-country) the items subject to this section will be considered on a case-by-case basis to determine whether the export, reexport or transfer (in-country) would make a material contribution to the proliferation of certain rocket systems, or unmanned air vehicles. When an export, reexport or transfer (in-country) is deemed to make a material contribution, the license will be denied.

(2) The following factors are among those that will be considered to determine what action should be taken on an application required by this section:

(i) The specific nature of the end use;

(ii) The significance of the export, reexport or transfer in terms of its contribution to the design, development, production or use of certain rocket systems or unmanned air vehicles;

(iii) The capabilities and objectives of the rocket systems or unmanned air vehicles of the recipient country;

(iv) The nonproliferation credentials of the importing country;

(v) The types of assurances or guarantees against design, development, production, or use for certain rocket system or unmanned air vehicle delivery purposes that are given in a particular case; and

(vi) The existence of a pre-existing contract.

[61 FR 12802, Mar. 25, 1996, as amended at 62 FR 25459, May 9, 1997; 69 FR 64659, Nov. 8, 2004; 70 FR 11861, Mar. 10, 2005; 73 FR 68326, Nov. 18, 2008]

§ 744.4 Restrictions on certain chemical and biological weapons end-uses.

(a) *General prohibition.* In addition to the license requirements for items specified on the CCL, you may not export, reexport, or transfer (in-country) an item subject to the EAR without a license if, at the time of export, reexport, or transfer (in-country) you know that the item will be used in the design, development, production, stockpiling, or use of chemical or biological weapons in or by any country or destination, worldwide.

(b) *Additional prohibition on persons informed by BIS.* BIS may inform persons, either individually by specific notice or through amendment to the EAR, that a license is required for a specific export, reexport, or transfer (in-country), or for the export, reexport, or transfer (in-country) of specified items to a certain end-user, because there is an unacceptable risk of use in or diversion to the activities specified in paragraph (a) of this section, anywhere in the world. Specific notice is to be given only by, or at the

direction of, the Deputy Assistant Secretary for Export Administration. When such notice is provided orally, it will be followed by a written notice within two working days signed by the Deputy Assistant Secretary for Export Administration. However, the absence of any such notification does not excuse persons from compliance with the license requirements of paragraph (a) of this section.

(c) *Exceptions*. No License Exceptions apply to the prohibitions described in paragraphs (a) and (b) of this section.

(d) *License review standards*. (1) Applications to export, reexport, or transfer (in-country) items subject to this section will be considered on a case-by-case basis to determine whether the export, reexport, or transfer (in-country) would make a material contribution to the design, development, production, stockpiling, or use of chemical or biological weapons. When an export, reexport, or transfer (in-country) is deemed to make such a contribution, the license will be denied.

(2) The following factors are among those that will be considered to determine what action should be taken on an application required under this section:

(i) The specific nature of the end-use;

(ii) The significance of the export, reexport, or transfer in terms of its contribution to the design, development, production, stockpiling, or use of chemical or biological weapons;

(iii) The nonproliferation credentials of the importing country or the country in which the transfer would take place;

(iv) The types of assurances or guarantees against the design, development, production, stockpiling, or use of chemical or biological weapons that are given in a particular case; and

(v) The existence of a pre-existing contract. See supplement no. 1 to part 742 of the EAR for relevant contract sanctity dates.

[61 FR 12802, Mar. 25, 1996, as amended at 62 FR 25459, May 9, 1997; 70 FR 16111, Mar. 30, 2005; 70 FR 19691, Apr. 14, 2005; 73 FR 68326, Nov. 18, 2008]

§ 744.5 Restrictions on certain maritime nuclear propulsion end-uses.

(a) *General prohibition*. In addition to the license requirements for items specified on the CCL, you may not export, reexport, or transfer (in-country) certain technology subject to the EAR without a license if at the time of the export, reexport or transfer (in-country) you know the item is for use in connection with a foreign maritime nuclear propulsion project. This prohibition applies to any technology relating to maritime nuclear propulsion plants, their land prototypes, and special facilities for their construction, support, or maintenance, including any machinery, devices, components, or equipment specifically developed or designed for use in such plants or facilities.

(b) *Exceptions*. The exceptions provided in part 740 of the EAR do not apply to the prohibitions described in paragraph (a) of this section.

(c) *License review standards*. It is the policy of the United States Government not to participate in and not to authorize United States firms or individuals to participate in foreign naval nuclear propulsion plant projects, except under an Agreement for Cooperation on naval nuclear propulsion executed in accordance with § 123(d) of the Atomic Energy Act of 1954. However, it is the policy of the United States Government to encourage United States firms and individuals to participate in maritime (civil) nuclear propulsion plant projects in friendly foreign countries provided that United States naval nuclear propulsion information is not disclosed.

[61 FR 12802, Mar. 25, 1996, as amended at 62 FR 25459, May 9, 1997; 73 FR 68326, Nov. 18, 2008]

§ 744.6 Restrictions on certain activities of U.S. persons.

(a) *General prohibitions*—(1) *Activities related to exports*. (i) No U.S. person as defined in paragraph (c) of this section may, without a license from BIS, export, reexport, or transfer (in-country) an item where that person knows that such item:

(A) Will be used in the design, development, production, or use of nuclear explosive devices in or by a country

listed in Country Group D:2 (see supplement no. 1 to part 740 of the EAR).

(B) Will be used in the design, development, production, or use of missiles in or by a country listed in Country Group D:4 (see supplement no. 1 to part 740 of the EAR); or

(C) Will be used in the design, development, production, stockpiling, or use of chemical or biological weapons in or by any country or destination, worldwide.

(ii) No U.S. person shall, without a license from BIS, knowingly support an export, reexport, or transfer (in-country) that does not have a license as required by this section. Support means any action, including financing, transportation, and freight forwarding, by which a person facilitates an export, reexport, or transfer (in-country).

(2) *Other activities unrelated to exports.* No U.S. person shall, without a license from BIS:

(i) Perform any contract, service, or employment that the U.S. person knows will directly assist in the design, development, production, or use of missiles in or by a country listed in Country Group D:4 (see supplement no. 1 to part 740 of the EAR); or

(ii) Perform any contract, service, or employment that the U.S. person knows will directly assist in the design, development, production, stockpiling, or use of chemical or biological weapons in or by any country or destination, worldwide.

(3) *Whole plant requirement.* No U.S. person shall, without a license from BIS, participate in the design, construction, export, reexport, or transfer (in-country) of a whole plant to make chemical weapons precursors identified in ECCN 1C350, in countries other than those listed in Country Group A:3 (Australia Group) (See supplement no. 1 to part 740 of the EAR).

(b) *Additional prohibitions on U.S. persons informed by BIS.* BIS may inform U.S. persons, either individually by specific notice or through amendment to the EAR, that a license is required because an activity could involve the types of participation and support described in paragraph (a) of this section. Specific notice is to be given only by, or at the direction of, the Deputy Assistant Secretary for Export Administration. When such notice is provided orally, it will be followed by a written notice within two working days signed by the Deputy Assistant Secretary for Export Administration. However, the absence of any such notification does not excuse the U.S. person from compliance with the license requirements of paragraph (a) of this section.

(c) *Definition of U.S. person.* For purposes of this section, the term U.S. person includes:

(1) Any individual who is a citizen of the United States, a permanent resident alien of the United States, or a protected individual as defined by 8 U.S.C. 1324b(a)(3);

(2) Any juridical person organized under the laws of the United States or any jurisdiction within the United States, including foreign branches; and

(3) Any person in the United States.

(d) *Exceptions.* No License Exceptions apply to the prohibitions described in paragraphs (a) and (b) of this section.

(e) *License review standards.* Applications to engage in activities otherwise prohibited by this section will be denied if the activities would make a material contribution to the design, development, production, stockpiling, or use of nuclear explosive devices, chemical or biological weapons, or of missiles.

[61 FR 12802, Mar. 25, 1996, as amended at 62 FR 25459, May 9, 1997; 70 FR 19691, Apr. 14, 2005; 73 FR 68326, Nov. 18, 2008]

§ 744.7 Restrictions on certain exports to and for the use of certain foreign vessels or aircraft.

(a) *General end-use prohibition.* In addition to the license requirements for items specified on the CCL, you may not export or reexport an item subject to the EAR to, or for the use of, a foreign vessel or aircraft, whether an operating vessel or aircraft or one under construction, located in any port including a Canadian port, unless a License Exception or NLR permits the shipment to be made:

(1) To the country in which the vessel or aircraft is located, and

(2) To the country in which the vessel or aircraft is registered, or will be registered in the case of a vessel or aircraft under construction, and

(3) To the country, including a national thereof, which is currently controlling, leasing, or chartering the vessel or aircraft.

(b) *Exception for U.S. and Canadian carriers.* (1) Notwithstanding the general end-use prohibition in paragraph (a) of this section, export and reexport may be made of the commodities described in paragraph (b)(3) of this section, for use by or on a specific vessel or plane of U.S. or Canadian registry located at any seaport or airport outside the United States or Canada except a port in Country Group D:1 (excluding the PRC), (see supplement no. 1 to part 740) provided that such commodities are[6] all of the following:

(i) Ordered by the person in command or the owner or agent of the vessel or plane to which they are consigned;

(ii) Intended to be used or consumed on board such vessel or plane and necessary for its proper operation;

(iii) In usual and reasonable kinds and quantities during times of extreme need, except that usual and reasonable quantities of ship's bunkers or aviation fuel are considered to be only that quantity necessary for a single onward voyage or flight; and

(iv) Shipped as cargo for which Electronic Export Information (EEI) is filed to the Automated Export System (AES) in accordance with the requirements of the Foreign Trade Regulations (FTR) (15 CFR part 30), except EEI is not required to be filed when any of the commodities, other than fuel, is exported by U.S. airlines to their own aircraft abroad for their own use, see 15 CFR 30.37(o) of the FTR.

(2) *Exports to U.S. or Canadian Airline's Installation or Agent.* Exports and reexports of the commodities described in paragraph (e) of this section, except fuel, may be made to a U.S. or Canadian airline's installation or agent in any foreign destination except Country Group D:1 (excluding the PRC), (see supplement no. 1 to part 740) provided such commodities are all of the following:

(i) Ordered by a U.S. or Canadian airline and consigned to its own installation or agent abroad;

(ii) Intended for maintenance, repair, or operation of aircraft registered in either the United States or Canada, and necessary for the aircraft's proper operation, except where such aircraft is located in, or owned, operated or controlled by, or leased or chartered to, Country Group D:1 (excluding the PRC) (see supplement no. 1 to part 740) or a national of such country;

(iii) In usual and reasonable kinds and quantities; and

(iv) Shipped as cargo for which Electronic Export Information (EEI) is filed to the Automated Export System (AES) in accordance with the requirements of the Foreign Trade Regulations (FTR) (15 CFR part 30), except EEI is not required to be filed when any of these commodities is exported by U.S. airlines to their own installations and agents abroad for use in their aircraft operations, see 15 CFR 30.37(o) of the FTR.

(3) *Applicable commodities.* This § 744.7 applies to the commodities listed subject to the provisions in paragraph (b) of this section:

(i) Fuel, including crude oil, petroleum products other than crude oil that are of non-Naval Petroleum Reserves origin or derivation (see § 754.3 of the EAR), and blends of crude oil with such petroleum products;

(ii) Deck, engine, and steward department stores, provisions, and supplies for both port and voyage requirements, provided that any petroleum products other than crude oil which are listed in supplement no. 1 to part 754 of the EAR are of non-Naval Petroleum Reserves origin or derivation (see § 754.3 of the EAR);

(iii) Medical and surgical supplies;

(iv) Food stores;

(v) Slop chest articles;

(vi) Saloon stores or supplies; and

(vii) Equipment and spare parts.

[61 FR 12802, Mar. 25, 1996, as amended at 65 FR 38160, June 19, 2000; 68 FR 50472, Aug. 21, 2003; 70 FR 67348, Nov. 7, 2005; 79 FR 4616, Jan. 29, 2014; 81 FR 29486, May 12, 2016]

[6] Where a license is required, see §§ 748.2 and 748.4(g) of the EAR.

§ 744.8 Restrictions on exports and reexports to persons designated pursuant to Executive Order 13382—Blocking Property of Weapons of Mass Destruction Proliferators and Their Supporters.

BIS maintains restrictions on exports and reexports to persons designated in or pursuant to Executive Order 13382 of June 28, 2005 (Weapons of Mass Destruction Proliferators and their Supporters). Executive Order 13382 blocks the property and interests in property of persons named in or designated pursuant to Executive Order 13382 in the United States or that comes within the United States or within the possession or control of United States persons. The parties whose property or interests in property are blocked pursuant to Executive Order 13382 are identified by the Department of the Treasury, Office of Foreign Assets Control (OFAC) in Appendix A to 31 CFR Chapter V with the bracketed suffix [NPWMD]. This section imposes export and reexport license requirements for items subject to the EAR on those same parties to further the objectives of Executive Order 13382.

(a) *License requirement(s) and authorization*—(1) *EAR license requirement*. A license is required for the export or reexport of any item subject to the EAR to any party listed in Appendix A to 31 CFR Chapter V with the bracketed suffix [NPWMD].

(2) *BIS authorization*. (i) To avoid duplication, U.S. persons are not required to seek separate authorization from BIS for an export or reexport to a party listed in Appendix A to 31 CFR Chapter V with the bracketed suffix [NPWMD] of an item subject to the EAR. If OFAC authorizes an export from the United States or an export or reexport by a U.S. person to a party listed in Appendix A to 31 CFR Chapter V with the bracketed suffix [NPWMD], such authorization constitutes authorization for purposes of the EAR as well.

(ii) U.S. persons must seek authorization from BIS for the export or reexport to a party listed in Appendix A to 31 CFR Chapter V with the bracketed suffix [NPWMD] of any item subject to the EAR that is not subject to OFAC's regulatory authority pursuant to Executive Order 13382.

(iii) Non-U.S. persons must seek authorization from BIS for any export from abroad or reexport to a party listed in Appendix A to 31 CFR Chapter V with the bracketed suffix [NPWMD] of any item subject to the EAR.

(iv) Any export or reexport to a party listed in Appendix A to 31 CFR Chapter V with the bracketed suffix [NPWMD] of any item subject to the EAR and not authorized by OFAC is a violation of the EAR.

(v) Any export or reexport by a U.S. person to a party listed in Appendix A to 31 CFR Chapter V with the bracketed suffix [NPWMD] of any item subject to the EAR that is not subject to regulation by OFAC and not authorized by BIS is a violation of the EAR. Any export from abroad or reexport by a non-U.S. person to a party listed in Appendix A to 31 CFR Chapter V with the bracketed suffix [NPWMD] of any item subject to the EAR and not authorized by BIS is a violation of the EAR.

(3) *Relation to other EAR license requirements*. The license requirements in this section supplement any other requirements set forth elsewhere in the EAR.

(b) *License exceptions*. No license exceptions are available for the EAR license requirements imposed in this section.

(c) *Licensing policy*. Applications for EAR licenses required by this section generally will be denied. You should consult with OFAC concerning transactions subject to OFAC licensing requirements.

(d) *Contract sanctity*. Contract sanctity provisions are not available for license applications reviewed under this section.

[74 FR 2357, Jan. 15, 2009]

§ 744.9 Restrictions on exports, reexports, and transfers (in-country) of certain cameras, systems, or related components.

(a) *General prohibitions*. (1) In addition to the applicable license requirements for national security, regional stability, anti-terrorism and United Nations embargo reasons in §§ 742.4, 742.6, 742.8, 746.1(b), and 746.3 of the EAR, a license is required to export, reexport, or

transfer (in-country) to any destination other than Canada commodities described in ECCNs 0A987 (incorporating commodities controlled by ECCNs 6A002 or 6A003, or commodities controlled by 6A993.a that meet the criterion of Note 3.a to 6A003.b.4), 6A002, 6A003, 6A990, or 6A993.a (having a maximum frame rate equal to or less than 9 Hz and thus meeting the criteria of Note 3.a to 6A003.b.4), or 8A002.d if at the time of export, reexport, or transfer, the exporter, reexporter, or transferor knows or is informed that the item will be or is intended to be:

(i) Used by a ''military end-user,'' as defined in paragraph (d) of this section; or

(ii) Incorporated into a ''military commodity'' controlled by ECCN 0A919.

(2) The license requirement described in paragraph (a)(1) of this section does not apply to exports, reexports, or transfers (in-country) of items described in that paragraph when such items are being reexported or transferred as part of a military deployment by a unit of the government of a country in Country Group A:1 (see Supplement No. 1 to part 740).

(b) *Additional prohibition on exporters, reexporters, or transferors informed by BIS.* BIS may inform an exporter, reexporter, or transferor, either individually by specific notice or through amendment to the EAR, that a license is required for the export, reexport, or transfer of commodities described in ECCNs 0A987 (incorporating commodities controlled by ECCNs 6A002 or 6A003, or commodities controlled by 6A993.a that meet the criterion of Note 3.a to 6A003.b.4), 6A002, 6A003, 6A990, or 6A993.a (having a maximum frame rate equal to or less than 9 Hz and thus meeting the criteria of Note 3.a to 6A003.b.4), or 8A002.d to specified end users, because BIS has determined that there is an unacceptable risk of diversion to the users or unauthorized incorporation into the ''military commodities'' described in paragraph (a) of this section. Specific notice is to be given only by, or at the direction of, the Deputy Assistant Secretary for Export Administration. When such notice is provided orally, it will be followed by a written notice within two working days signed by the Deputy Assistant Secretary for Export Administration.

(c) *License review standard.* Applications for licenses required by this section will be reviewed by applying the policies that would be applied under the International Traffic in Arms Regulations (22 CFR Parts 120–130).

(d) *Military end-user.* In this section, the term ''military end-user'' means the national armed services (army, navy, marine, air force, or coast guard), as well as the national guard and national police, government intelligence or reconnaissance organizations, or any person or entity whose actions or functions are intended to support ''military end-uses'' as defined in § 744.17(d).

(e) *Exception.* Shipments subject to the prohibitions in paragraphs (a) and (b) of this section that are consigned to and for the official use of the U.S. Government authorized pursuant to § 740.11(b)(2)(ii) of the EAR may be made under License Exception GOV. No other license exceptions apply to the prohibitions described in paragraphs (a) and (b) of this section.

[74 FR 23948, May 22, 2009; 77 FR 39369, July 2, 2012, as amended at 81 FR 70333, Oct. 12, 2016]

§ 744.10 Restrictions on certain entities in Russia.

(a) *General prohibition.* Certain entities in Russia are included in supplement no. 4 to this part 744 (Entity List). (See also § 744.1(c) of the EAR.) A license is required, to the extent specified on the Entity List, to export, reexport, or transfer (in-country) any item subject to the EAR to such entities.

(b) *Exceptions.* No License Exceptions apply to the prohibition described in paragraph (a) of this section.

(c) *License review standard.* Applications to export, reexport, or transfer (in-country) items subject to the EAR to these entities will be reviewed with a presumption of denial.

[64 FR 14605, Mar. 26, 1999, as amended at 74 FR 45992, Sept. 8, 2009]

§ 744.11 License requirements that apply to entities acting contrary to the national security or foreign policy interests of the United States.

BIS may impose foreign policy export, reexport, and transfer (in-country) license requirements, limitations on availability of license exceptions, and set license application review policy based on the criteria in this section. Such requirements, limitations and policy are in addition to those set forth elsewhere in the EAR. License requirements, limitations on use of license exceptions and license application review policy will be imposed under this section by adding an entity to the Entity List (supp. no. 4 to this part) with a reference to this section and by stating on the Entity List the license requirements and license application review policy that apply to that entity. BIS may remove an entity from the Entity List if it is no longer engaged in the activities described in paragraph (b) of this section and is unlikely to engage in such activities in the future. BIS may modify the license exception limitations and license application review policy that applies to a particular entity to implement the policies of this section. BIS will implement the provisions of this section in accordance with the decisions of the End-User Review Committee or, if appropriate in a particular case, in accordance with the decisions of the body to which the End-User Review Committee decision is escalated. The End-User Review Committee will follow the procedures set forth in supplement no. 5 to this part.

(a) *License requirement, availability of license exceptions, and license application review policy.* A license is required, to the extent specified on the Entity List, to export, reexport, or transfer (in-country) any item subject to the EAR to an entity that is listed on the Entity List in an entry that contains a reference to this section. License exceptions may not be used unless authorized in that entry. Applications for licenses required by this section will be evaluated as stated in that entry in addition to any other applicable review policy stated elsewhere in the EAR.

(b) *Criteria for revising the Entity List.* Entities for which there is reasonable cause to believe, based on specific and articulable facts, that the entity has been involved, is involved, or poses a significant risk of being or becoming involved in activities that are contrary to the national security or foreign policy interests of the United States and those acting on behalf of such entities may be added to the Entity List pursuant to this section. This section may not be used to place on the Entity List any party to which exports or reexports require a license pursuant to § 744.12, § 744.13, § 744.14 or § 744.18 of this part. This section may not be used to place on the Entity List any party if exports or reexports to that party of items that are subject to the EAR are prohibited by or require a license from another U.S. government agency. This section may not be used to place any U.S. person, as defined in § 772.1 of the EAR, on the Entity List. Examples (1) through (5) of this paragraph provide an illustrative list of activities that could be contrary to the national security or foreign policy interests of the United States.

(1) Supporting persons engaged in acts of terror.

(2) Actions that could enhance the military capability of, or the ability to support terrorism of governments that have been designated by the Secretary of State as having repeatedly provided support for acts of international terrorism.

(3) Transferring, developing, servicing, repairing or producing conventional weapons in a manner that is contrary to United States national security or foreign policy interests or enabling such transfer, service, repair, development, or production by supplying parts, components, technology, or financing for such activity.

(4) Preventing accomplishment of an end use check conducted by or on behalf of BIS or the Directorate of Defense Trade Controls of the Department of State by: precluding access to; refusing to provide information about; or providing false or misleading information about parties to the transaction or the item to be checked. The conduct in this example includes: expressly refusing to permit a check, providing false or misleading information,

or engaging in dilatory or evasive conduct that effectively prevents the check from occurring or makes the check inaccurate or useless. A nexus between the conduct of the party to be listed and the failure to produce a complete, accurate and useful check is required, even though an express refusal by the party to be listed is not required.

(5) Engaging in conduct that poses a risk of violating the EAR when such conduct raises sufficient concern that the End-User Review committee believes that prior review of exports, reexports, or transfers (in-country) involving the party and the possible imposition of license conditions or license denial enhances BIS's ability to prevent violations of the EAR.

[73 FR 49321, Aug. 21, 2008, as amended at 74 FR 45992, Sept. 8, 2009]

§ 744.12 Restrictions on exports and reexports to persons designated in or pursuant to Executive Order 13224 (Specially Designated Global Terrorist) (SDGT).

BIS maintains restrictions on exports and reexports to persons designated in or pursuant to Executive Order 13224 of September 23, 2001 (Blocking Property and Prohibiting Transactions with Persons Who Commit, Threaten to Commit, or Support Terrorism). These persons include individuals and entities listed in the Annex to Executive Order 13224, as well as persons subsequently designated by the Secretary of State or Secretary of the Treasury pursuant to criteria set forth in the Order. Pursuant to Executive Order 13224, the Department of the Treasury's Office of Foreign Assets Control (OFAC) maintains 31 CFR part 594, the Global Terrorism Sanctions Regulations. OFAC announces the names of persons designated pursuant to Executive Order 13224 in the FEDERAL REGISTER and includes such persons in Appendix A to 31 CFR Chapter V, which lists persons subject to various sanctions programs administered by OFAC. The Department of State also announces the names of foreign persons designated pursuant to Executive Order 13224 in the FEDERAL REGISTER. All persons designated in or pursuant to Executive Order 13224 are identified in Appendix A to 31 CFR Chapter V by the bracketed initials [SDGT] and are also known as Specially Designated Global Terrorists (SDGTs).

(a) *License requirement(s).* (1) A license requirement applies to the export or reexport to an SDGT of any item subject to the EAR.

(2) To avoid duplication, U.S. persons are not required to seek separate authorization for an export or reexport to an SDGT of an item subject to both the EAR and OFAC's regulatory authority pursuant to Executive Order 13224. Therefore, if OFAC authorizes an export from the United States or an export or reexport by a U.S. person to an SDGT, no separate authorization from BIS is necessary.

(3) U.S. persons must seek authorization from BIS for the export or reexport to an SDGT of any item subject to the EAR that is not subject to OFAC's Global Terrorism Sanctions Regulations in 31 CFR part 594.

(4) Non-U.S. persons must seek authorization from BIS for any export from abroad or reexport to an SDGT of any item subject to the EAR.

(5) Any export or reexport to an SDGT of any item subject to both the EAR and OFAC's regulatory authority pursuant to Executive Order 13224 and not authorized by OFAC is a violation of the EAR.

(6) Any export or reexport by a U.S. person to an SDGT of any item subject to the EAR that is not subject to regulation by OFAC and not authorized by BIS is a violation of the EAR. Any export from abroad or reexport by a non-U.S. person to an SDGT of any item subject to the EAR and not authorized by BIS is a violation of the EAR.

(7) These licensing requirements supplement any other requirements set forth elsewhere in the EAR.

(b) *Exceptions.* No License Exceptions or other BIS authorization are available for any export or reexport to an SDGT of any item subject to the EAR.

(c) *Licensing policy.* Applications for licenses for the export or reexport to an SDGT of any item subject to the EAR generally will be denied. You should consult with OFAC concerning transactions subject to OFAC licensing requirements.

(d) *Contract sanctity*. Contract sanctity provisions are not available for license applications reviewed under this section.

NOTE TO § 744.12: This section does not implement, construe, or limit the scope of any criminal statute, including (but not limited to) 18 U.S.C. 2339B(a)(1) and 2339A, and does not excuse any person from complying with any criminal statute, including (but not limited to) 18 U.S.C. 2339B(a)(1) and 18 U.S.C. 2339A.

[68 FR 34194, June 6, 2003]

§ 744.13 Restrictions on exports and reexports to persons designated pursuant to Executive Order 12947 (Specially Designated Terrorist) (SDT).

Consistent with the purpose of Executive Order 12947 of January 23, 1995, BIS maintains restrictions on exports and reexports to Specially Designated Terrorists (SDTs). Executive Order 12947 prohibits transactions by U.S. persons with terrorists who threaten to disrupt the Middle East peace process. Pursuant to the Executive Order, the Department of the Treasury, Office of Foreign Assets Control (OFAC), maintains 31 CFR part 595, the Terrorism Sanctions Regulations. In Appendix A to 31 CFR Chapter V, pursuant to 31 CFR part 595, these Specially Designated Terrorists are identified by the bracketed suffix initials [SDT]. The requirements set forth below further the objectives of Executive Order 12947.

(a) *License requirement(s)*. (1) A license requirement applies to the export or reexport to an SDT of any item subject to the EAR.

(2) To avoid duplication, U.S. persons are not required to seek separate authorization for an export or reexport to an SDT of an item subject both to the EAR and to OFAC's Terrorism Sanctions Regulations in 31 CFR part 595. Therefore, if OFAC authorizes an export or reexport of an item by a U.S. person to a SDT, no separate authorization from BIS is necessary.

(3) U.S. persons must seek authorization from BIS for the export or reexport to an SDT of an item subject to the EAR but not subject to OFAC's Terrorism Sanctions Regulations in 31 CFR part 595.

(4) Non-U.S. persons must seek authorization from BIS for the export from abroad or reexport to an SDT of any item subject to the EAR.

(5) Any export or reexport to an SDT by a U.S. person of any item subject both to the EAR and OFAC's Terrorism Sanctions Regulations in 31 CFR part 595 and not authorized by OFAC is a violation of the EAR.

(6) Any export or reexport by a U.S. person to an SDT of any item subject to the EAR that is not subject to OFAC's Terrorism Sanctions Regulations in 31 CFR part 595 and not authorized by BIS is a violation of the EAR. Any export from abroad or reexport by a non-U.S. person to an SDT of any item subject to the EAR and not authorized by BIS is a violation of the EAR.

(7) These licensing requirements supplement any other requirements set forth elsewhere in the EAR.

(b) *Exceptions*. No License Exceptions or other BIS authorization are available for export or reexport to an SDT of any item subject to the EAR.

(c) *Licensing policy*. Applications for licenses for the export or reexport to an SDT of any item subject to the EAR generally will be denied. You should consult with OFAC concerning transactions subject to OFAC licensing requirements.

(d) *Contract sanctity*. Contract sanctity provisions are not available for license applications reviewed under this section.

NOTE TO § 744.13: This section does not implement, construe, or limit the scope of any criminal statute, including (but not limited to) 18 U.S.C. 2339B(a)(1) and 2339A, and does not excuse any person from complying with any criminal statute, including (but not limited to) 18 U.S.C. 2339B(a)(1) and 18 U.S.C. 2339A.

[68 FR 34194, June 6, 2003]

§ 744.14 Restrictions on exports and reexports to designated Foreign Terrorist Organizations (FTOs).

Consistent with the objectives of section 219 of the Immigration and Nationality Act, as amended (INA) (8 U.S.C. 1189), and section 303 of the Antiterrorism and Effective Death Penalty Act 1996, as amended (Anti-Terrorism Act) (18 U.S.C. 2339B) (Public Law 104–132. 110 Stat. 1214–1319), BIS maintains restrictions on exports and

reexports to organizations designated as Foreign Terrorist Organizations (FTOs) pursuant to section 219 of the INA. The Department of the Treasury, Office of Foreign Assets Control, maintains 31 CFR part 597, the Foreign Terrorist Organizations Sanctions Regulations, requiring U.S. financial institutions to block all financial transactions involving assets of designated FTOs within the possession or control of such U.S. financial institutions. Section 303 of the Anti-Terrorism Act prohibits persons within the United States or subject to U.S. jurisdiction from knowingly providing material support or resources to a designated FTO and makes violations punishable by criminal penalties under title 18, United States Code. These designated FTOs are listed in Appendix A to 31 CFR Chapter V and identified by the bracketed initials [FTO]. A designation of a foreign organization determined to meet the criteria of section 219 of the INA takes effect upon publication in the FEDERAL REGISTER by the Secretary of State, or the Secretary's designee.

(a) *License requirement(s).* (1) A license requirement applies to the export or reexport to an FTO of any item subject to the EAR.

(2) U.S. persons must seek authorization from BIS for the export or reexport to an FTO of any item subject to the EAR.

(3) Non-U.S. persons must seek authorization from BIS for the export from abroad or reexport to an FTO of any item subject to the EAR.

(4) Any export or reexport to an FTO by any person of any item subject to the EAR and not authorized by BIS is a violation of the EAR.

(5) These licensing requirements supplement any other requirements set forth elsewhere in the EAR.

(b) *Exceptions.* No License Exceptions or other BIS authorization for items described by paragraph (a) of this section are available for exports or reexports to FTOs.

(c) *Licensing policy.* Applications for exports and reexports to FTOs of all items identified by paragraph (a) of this section will generally be denied, to the extent they constitute material support or resources, as defined in 18 U.S.C. 2339A(b).

(d) *Contract sanctity.* Contract sanctity provisions are not available for license applications reviewed under this section.

(e) *FTOs also designated as SDTs or SDGTs.* In cases in which an FTO is also an SDT, as described in § 744.13, or an SDGT, as described in § 744.12, the license requirements and licensing policy set forth in § 744.13 or § 744.12 will apply.

NOTE TO § 744.14: This section does not implement, construe, or limit the scope of any criminal statute, including (but not limited to) 18 U.S.C. 2339B(a)(1) and 2339A, and does not excuse any person from complying with any criminal statute, including (but not limited to) 18 U.S.C. 2339B(a)(1) and 18 U.S.C. 2339A.

[68 FR 34195, June 6, 2003]

§ 744.15 Restrictions on exports, reexports and transfers (in-country) to persons listed on the unverified list.

(a) *General requirement.* In addition to the requirements set forth elsewhere in the EAR, exports, reexports, or transfers (in-country) subject to the EAR involving parties to the transaction who are listed on the Unverified List (UVL) must be made in accordance with paragraph (b) of this section. The names and addresses of foreign persons subject to end-user controls based on the criteria described in paragraph (c) of this section are identified in the Unverified List found in supplement no. 6 to this part. Requirements found elsewhere in the EAR also apply, including but not limited to any license requirements, the record filing requirements pursuant to § 758.1(b)(8), and the restrictions on license exceptions described in § 740.2(a)(17) of the EAR.

(b) *UVL statement.* Before proceeding with any export, reexport, or transfer (in-country) subject to the EAR that is not subject to a license requirement, involving a person listed on the Unverified List as a party described in § 748.5 of the EAR, an exporter, reexporter, or transferor (in-country) must obtain a UVL statement from such person, according to the provisions set forth in this section. The statement must be retained in accordance with part 762 of the EAR.

(1) One UVL statement may be used for multiple exports, reexports, and transfers (in-country) of the same items between the same parties, so long as the party names, the description(s) of the items and the ECCNs are correct. If one UVL statement is used for multiple exports, reexports, and transfers (in-country), the exporter, reexporter, and transferor must maintain a log or other record that identifies each export, reexport, and transfer (in-country) made pursuant to this section and the specific UVL statement that is associated with each. The log or record must be retained in accordance with Part 762 of the EAR.

(2) The UVL statement must be in writing, signed and dated by an individual of sufficient authority to legally bind the UVL party, and state the following:

(i) Name of UVL party; complete physical address, to include shipping, corporate, and end user addresses, if different (simply listing a post office box is insufficient); telephone number; fax number; email address; Web site (if available); and name and title of individual signing the UVL statement.

(ii) Agrees not to use the item(s) for any use prohibited by the United States Export Administration Regulations (EAR), 15 CFR Parts 730–772, and agrees not to reexport or transfer (in-country) the item(s) to any destination, use or user prohibited by the EAR.

(iii) Declares that the end use, end user, and country of ultimate destination of the item(s) subject to the EAR are as follows: [INSERT END USE, END USER, AND COUNTRY OF ULTIMATE DESTINATION].

(iv) Agrees to cooperate with end-use checks, including a Post-Shipment Verification, conducted by or on behalf of the Bureau of Industry and Security, U.S. Department of Commerce, for any item subject to the EAR in transactions to which they were a party in the last five years. This cooperation includes facilitating the timely conduct of the check and providing full and accurate information concerning the disposition of items subject to the EAR.

(v) Agrees to provide copies of this document and all other export, reexport or transfer (in-country) records required to be retained in part 762 of the EAR.

(vi) Certifies that the individual signing the UVL statement has sufficient authority to legally bind the party.

(c) *Criteria for revising the Unverified List.* (1) Foreign persons who are parties to an export, reexport, and transfer (in-country) subject to the EAR may be added to the Unverified List if BIS or federal officials acting on BIS's behalf cannot verify the *bona fides* (*i.e.*, legitimacy and reliability relating to the end use and end user of items subject to the EAR) of such persons because an end-use check, such as a prelicense check (PLC) or a post-shipment verification (PSV), cannot be completed satisfactorily for reasons outside of the U.S. Government's control. Examples in paragraphs (c)(1)(i) through (iii) of this section provide an illustrative list of those circumstances.

(i) During the conduct of an end-use check, the subject of the check is unable to demonstrate the disposition of items subject to the EAR.

(ii) The existence or authenticity of the subject of an end-use check cannot be verified (e.g., the subject of the check cannot be located or contacted).

(iii) Lack of cooperation by the host government authority prevents an end-use check from being conducted.

(2) BIS will remove a person from the Unverified List when BIS is able to verify the *bona fides* of the listed person as an end user, consignee, or other party to exports, reexports, or transfers (in-country) involving items subject to the EAR by completing a PLC or PSV. In the limited circumstance involving a PLC or PSV that cannot be completed due to lack of host government cooperation, an alternative *bona fides* verification process may be determined by BIS to be sufficient. A determination to remove a person from the Unverified List based on the criteria in this paragraph is separate from any determination made by BIS pursuant to § 744.11(b) of the EAR, and must be requested through paragraph (d) of this section.

(d) *Procedure for requesting removal of a person on the Unverified List.* Any person listed on the Unverified List may request that its listing be amended or removed.

(1) All such requests, including reasons therefor and information that verifies the *bona fides*, i.e., legitimacy and reliability of the person listed on the Unverified List as an end user, consignee or other party to exports, reexports, and transfers (in-country) of items subject to the EAR, must be in writing and sent to: Director, Office of Enforcement Analysis, Bureau of Industry and Security, U.S. Department of Commerce, 14th Street and Pennsylvania Avenue NW., Room 4065, Washington, DC 20230, via fax to (202) 482–0971, or by email to *UVLRequest@bis.doc.gov*.

(2) The Deputy Assistant Secretary for Export Enforcement will review such requests and will convey the decision on the request to the requester in writing based on an assessment of the listed person's *bona fides* as a party to exports, reexports, and transfers (in-country) subject to the EAR. That decision will be the final agency action on the request.

[78 FR 76747, Dec. 19, 2013]

§ 744.16 Entity List.

The Entity List (supplement no. 4 to part 744) identifies persons reasonably believed to be involved, or to pose a significant risk of being or becoming involved, in activities contrary to the national security or foreign policy interests of the United States. The entities are added to the Entity List pursuant to sections of part 744 (Control Policy: End-User and End-Use Based) and part 746 (Embargoes and Other Special Controls) of the EAR.

(a) *License requirements*. The public is hereby informed that in addition to the license requirements for items specified on the Commerce Control List (CCL), you may not export, reexport, or transfer (in-country) items specified on the Entity List to listed entities without a license from BIS. The specific license requirement for each listed entity is identified in the license requirement column on the Entity List in supplement no. 4 to this part.

(b) *License exceptions*. No license exceptions are available for exports, reexports or transfers (in-country) to listed entities of specified items, except license exceptions for items listed in § 740.2(a)(5) of the EAR destined to listed Indian or Pakistani entities to ensure the safety of civil aviation and safe operation of commercial passenger aircraft, and in the case of entities added to the Entity List pursuant to § 744.20, to the extent specified on the Entity List.

(c) *License review policy*—(1) *General review policy*. The license review policy for each listed entity is identified in the License Review Policy column on the Entity List.

(2) [Reserved]

(d) *The End-User Review Committee (ERC)*. The End-User Review Committee (ERC), composed of representatives of the Departments of Commerce (Chair), State, Defense, Energy and, where appropriate, the Treasury, generally makes decisions regarding additions to, removals from, or other modifications to the Entity List.

(e) *Removal or modification requests*. Any entity listed on the Entity List may request that its listing be removed or modified. All such requests, including reasons therefor, must be in writing and sent to: Chair, End-User Review Committee, Bureau of Industry and Security, U.S. Department of Commerce, 14th Street and Pennsylvania Avenue NW., Room 3886, Washington, DC 20230.

(1) *Review*. The ERC will review such requests in accordance with the procedures set forth in Supplement No. 5 to this part.

(2) *BIS action*. The Deputy Assistant Secretary for Export Administration will convey the decision on the request to the requester in writing. That decision will be the final agency action on the request.

[81 FR 64695, Sept. 20, 2016]

§ 744.17 Restrictions on certain exports, reexports and transfers (in-country) of microprocessors and associated "software" and "technology" for "military end uses" and to "military end users."

(a) *General prohibition*. In addition to the license requirements set forth elsewhere in the EAR, you may not export, reexport or transfer (in-country) microprocessors (''microprocessor microcircuits,'' ''microcomputer microcircuits,'' and microcontroller microcircuits having a processing

speed of 5 GFLOPS or more and an arithmetic logic unit with an access width of 32 bit or more, including those incorporating ''information security'' functionality), or associated ''software'' and ''technology'' for the ''production'' or ''development'' of such microprocessors without a license if, at the time of the export, reexport or transfer (in-country), you know, have reason to know, or are informed by BIS that the item will be or is intended to be used for a 'military end use,' as defined in paragraph (d) of this section, in a destination listed in Country Group D:1 (see supplement No. 1 to part 740 of the EAR); or by a 'military end user,' as defined in paragraph (e) of this section, in a destination listed in Country Group D:1.

(b) *Additional prohibition on exporters or reexporters informed by BIS.* BIS may inform an exporter, reexporter or transferor, either individually by specific notice or through amendment to the EAR, that a license is required for export, reexport or transfer (in-country) of items described in paragraph (a) of this section to specified end users, because BIS has determined that there is an unacceptable risk of diversion to the end uses or end users described in paragraph (a) of this section. Specific notice is to be given only by, or at the direction of, the Deputy Assistant Secretary for Export Administration. When such notice is provided orally, it will be followed by a written notice within two working days signed by the Deputy Assistant Secretary for Export Administration. The absence of any such notification does not excuse the exporter, reexporter or transferor from compliance with the license requirements of paragraph (a) of this section.

(c) *License review standards.* There is a presumption of denial for applications to export, reexport or transfer (in-country) items subject to this section.

(d) *Military end-use.* In this section, the phrase 'military end use' means incorporation into: a military item described on the U.S. Munitions List (USML) (22 CFR part 121, International Traffic in Arms Regulations) or the Wassenaar Arrangement Munitions List (as set out on the Wassenaar Arrangement Web site at *http://www.wassenaar.org*); commodities classified under ECCNs ending in ''A018'' or under ''600 series'' ECCNs; or any commodity that is designed for the ''use,'' ''development,'' ''production,'' or deployment of military items described on the USML, the Wassenaar Arrangement Munitions List or classified under ECCNs ending in ''A018'' or under ''600 series'' ECCNs. supplement No. 1 of this part lists examples of 'military end use.'

(e) *Military end user.* In this section, the term 'military end user' means the national armed services (army, navy, marine, air force, or coast guard), as well as the national guard and national police, government intelligence or reconnaissance organizations, or any person or entity whose actions or functions are intended to support 'military end uses' as defined in paragraph (d) of this section.

(f) *Exceptions.* The prohibitions described in paragraphs (a) and (b) of this section supersede any license exception or No License Required (NLR) designation that would otherwise apply to a transaction subject to the EAR, except that this license requirement does not apply to exports, reexports or transfers (in-country) of items for or on behalf of the official use by personnel and agencies of the U.S. Government or to agencies of a cooperating government authorized by License Exception GOV pursuant to § 740.11 of the EAR. See § 740.11(b)(1) of the EAR for the definition of 'agency of the U.S. Government' and § 740.11(c)(1) for the definition of 'agency of a cooperating government.'

[79 FR 75046, Dec. 17, 2014]

§ 744.18 Restrictions on exports, reexports, and transfers to persons designated in or pursuant to Executive Order 13315.

Consistent with Executive Order (E.O.) 13315 of August 28, 2003 (''Blocking Property of the Former Iraqi Regime, Its Senior Officials and Their Family Members, and Taking Certain Other Actions''), BIS maintains restrictions on exports, reexports, and transfers to persons designated in or pursuant to E.O. 13315. These persons include individuals and entities listed in the Annex to Executive Order 13315,

as well as persons subsequently designated pursuant to criteria set forth in the order. OFAC includes the names of persons designated pursuant to E.O. 13315 in appendix A to 31 CFR chapter V, which lists persons subject to various sanctions programs administered by OFAC. All persons designated in or pursuant to E.O. 13315 are identified in appendix A by the bracketed initials [IRAQ2].

(a) *License requirements.* (1) A license requirement applies to the export, reexport, or transfer of any item subject to the EAR to—

(i) Persons listed in the Annex to E.O. 13315 of August 28, 2003; or

(ii) Persons determined to be subject to E.O. 13315.

(2) To avoid duplication, U.S. persons are not required to seek separate BIS authorization for an export, reexport, or transfer to a person identified in paragraph (a) of this section of any item subject to both the EAR and regulations maintained by OFAC. Therefore, if OFAC authorizes an export from the United States or an export, reexport, or transfer by a U.S. person to a person identified in paragraph (a) of this section, no separate authorization from BIS is necessary.

(3) U.S. persons must seek authorization from BIS for the export, reexport, or transfer to a person identified in paragraph (a) of this section of any item subject to the EAR but not subject to regulations maintained by OFAC.

(4) Non-U.S. persons must seek authorization from BIS for the export from abroad, reexport, or transfer to a person identified in paragraph (a) of this section of any item subject to the EAR.

(5) Any export, reexport, or transfer to a person identified in paragraph (a) of this section by a U.S. person of any item subject both to the EAR and regulations maintained by OFAC and not authorized by OFAC is a violation of the EAR.

(6) Any export, reexport, or transfer by a U.S. person to a person identified in paragraph (a) of this section of any item subject to the EAR that is not subject to regulations maintained by OFAC and not authorized by BIS is a violation of the EAR. Any export from abroad, reexport, or transfer by a non-U.S. person to a person identified in paragraph (a) of this section of any item subject to the EAR and not authorized by BIS is a violation of the EAR.

(7) These licensing requirements supplement any other requirements set forth elsewhere in the EAR.

(b) *Exceptions.* No License Exceptions or other BIS authorizations are available for export, reexport, or transfer to a person identified in paragraph (a) of this section of any item subject to the EAR.

(c) *Licensing policy.* Applications for licenses for the export, reexport, or transfer to a person identified in paragraph (a) of this section of any item subject to the EAR will generally be denied. You should consult with OFAC concerning transactions subject to OFAC licensing requirements.

(d) *Contract sanctity.* Contract sanctity provisions are not available for license applications reviewed under this section.

[69 FR 46076, July 30, 2004]

§ 744.19 Licensing policy regarding persons sanctioned pursuant to specified statutes.

Notwithstanding any other licensing policy elsewhere in the EAR, BIS will deny any export or reexport license application if any person who is a party to the transaction (*i.e.*, the applicant, other party authorized to receive a license, purchaser, intermediate consignee, ultimate consignee, or end-user) is subject to one or more of the sanctions described in paragraphs (a), (b), (c), and (e) of this section and will deny any export or reexport license application for an item listed on the Commerce Control List with a reason for control of MT if a person who is a party to the transaction is subject to a sanction described in paragraph (d) of this section.

(a) A sanction issued pursuant to the Iran-Iraq Arms Nonproliferation Act of 1992 (50 U.S.C. 1701 note) that prohibits the issuance of any license to or by the sanctioned person.

(b) A sanction issued pursuant to the Iran, North Korea, and Syria Nonproliferation Act (50 U.S.C. 1701 note) that prohibits the granting of a license

and requires the suspension of an existing license for the transfer to foreign persons of items, the export of which is controlled under the Export Administration Act of 1979, as amended (50 U.S.C. app. 2401–2420), or the Export Administration Regulations.

(c) A sanction issued pursuant to section 11B(b)(1)(B)(ii) of the Export Administration Act of 1979, as amended (50 U.S.C. app. 2401–2420), that prohibits the issuance of new licenses for exports to the sanctioned person of items controlled pursuant to the Export Administration Act of 1979, as amended.

(d) A sanction issued pursuant to section 11B(b)(1)(B)(i) of the Export Administration Act of 1979, as amended (50 U.S.C. app. 2401–2420), that prohibits the issuance of new licenses for exports to the sanctioned person of MTCR Annex equipment or technology controlled pursuant to the Export Administration Act of 1979, as amended.

(e) A sanction issued pursuant to the Iran Sanctions Act of 1996 (50 U.S.C. 1701 note) that prohibits the issuance of a specific license or grant of any other specific permission or authority to export any goods or technology to a sanctioned person under the Export Administration Act of 1979, as amended (50 U.S.C. app. 2401–2420).

[77 FR 5388, Feb. 3, 2012]

§ 744.20 License requirements that apply to certain sanctioned entities.

BIS may impose, as foreign policy controls, export, reexport, and transfer (in-country) license requirements and set licensing policy with respect to certain entities that have been sanctioned by the State Department. Such license requirements and policy are in addition to those imposed elsewhere in the EAR. License requirements and licensing policy may be imposed pursuant to this section even when the sanction and the legal authority under which the State Department imposed the sanction do not require or authorize the imposition of any license requirement or licensing policy. License requirements and licensing policy will be imposed pursuant to this section by adding an entity to the Entity List in accordance with paragraphs (a), (b), and (c) of this section.

(a) *General requirement.* Certain entities that have been sanctioned by the State Department are listed in supplement no. 4 to this part (the Entity List) with a reference to this section. A license is required, to the extent specified on the Entity List, to export, reexport, or transfer (in-country) any item to such entities.

(b) License Exceptions. No license exception may be used to export, reexport, or transfer (in-country) to such entities unless specifically authorized on the Entity List.

(c) Licensing policy. Applications to export, reexport, or transfer (in-country) to such entities will be reviewed according to the licensing policy set forth on the Entity List.

[70 FR 10867, Mar. 7, 2005, as amended at 74 FR 45992, Sept. 8, 2009]

§ 744.21 Restrictions on certain 'Military end uses' in the People's Republic of China (PRC) or for a 'Military end use' or 'Military end user' in Russia or Venezuela.

(a)(1) *General prohibition.* In addition to the license requirements for items specified on the Commerce Control List (CCL), you may not export, reexport, or transfer (in-country) any item subject to the EAR listed in supplement no. 2 to part 744 to the PRC, Russia or Venezuela without a license if, at the time of the export, reexport, or transfer (in-country), either:

(i) You have ''knowledge,'' as defined in § 772.1 of the EAR, that the item is intended, entirely or in part, for a 'military end use,' as defined in paragraph (f) of this section, in the PRC or for a 'military end use' or 'military end user' in Russia or Venezuela; or

(ii) You have been informed by BIS, as described in paragraph (b) of this section, that the item is or may be intended, entirely or in part, for a 'military end use' in the PRC or for a 'military end use' or 'military end-user' in Russia or Venezuela.

(2) *General prohibition.* In addition to the license requirements for 9x515 and ''600 series'' items specified on the Commerce Control List (CCL), you may not export, reexport, or transfer (in-country) any 9x515 or ''600 series'' item, including items described in a .y paragraph of a 9x515 or ''600 series'' ECCN,

to the PRC, Russia or Venezuela without a license. The use in, with, or for the International Space Station (ISS) for exports, reexports or transfers within Russia is not within the scope of this paragraph's general prohibition, including launch to the ISS. (*See* § 740.11(e)(1) of the EAR for a definition of the ISS).

(b) *Additional prohibition on those informed by BIS*. BIS may inform you either individually by specific notice, through amendment to the EAR published in the FEDERAL REGISTER, or through a separate notice published in the FEDERAL REGISTER, that a license is required for specific exports, reexports, or transfers (in-country) of any item because there is an unacceptable risk of use in or diversion to 'military end use' activities in the PRC or for a 'military end use' or 'military end user' in Russia or Venezuela. Specific notice will be given only by, or at the direction of, the Deputy Assistant Secretary for Export Administration. When such notice is provided orally, it will be followed by written notice within two working days signed by the Deputy Assistant Secretary for Export Administration or the Deputy Assistant Secretary's designee. The absence of BIS notification does not excuse the exporter from compliance with the license requirements of paragraph (a) of this section.

(c) *License exception*. Despite the prohibitions described in paragraphs (a) and (b) of this section, you may export, reexport, or transfer (in-country) items subject to the EAR under the provisions of License Exception GOV set forth in § 740.11(b)(2)(i) and (ii) of the EAR.

(d) *License application procedure*. When submitting a license application pursuant to this section, you must state in the ''additional information'' block of the application that ''this application is submitted because of the license requirement in § 744.21 of the EAR (Restrictions on Certain Military End Uses in the People's Republic of China or for a 'Military End Use' or 'Military End User' in Russia or Venezuela).'' In addition, either in the additional information block of the application or in an attachment to the application, you must include for the PRC all known information concerning the military end use of the item(s) and for Russia or Venezuela, all known information concerning the 'military end use' and 'military end users' of the item(s). If you submit an attachment with your license application, you must reference the attachment in the ''additional information'' block of the application.

(e) *License review standards*. (1) Applications to export, reexport, or transfer (in-country) items described in paragraph (a) of this section will be reviewed on a case-by-case basis to determine whether the export, reexport, or transfer (in-country) would make a material contribution to the military capabilities of the PRC, Russia, or Venezuela, and would result in advancing the country's military activities contrary to the national security interests of the United States. When it is determined that an export, reexport, or transfer (in-country) would make such a contribution, the license will be denied.

(2) Applications may be reviewed under chemical and biological weapons, nuclear nonproliferation, or missile technology review policies, as set forth in §§ 742.2(b)(4), 742.3(b)(4) and 742.5(b)(4) of the EAR, if the end use may involve certain proliferation activities.

(3) Applications for items requiring a license for other reasons that are destined to the PRC for a 'military end use' or that are destined to Russia or Venezuela for a 'military end use' or 'military end user' also will be subject to the review policy stated in paragraph (e)(1) of this section.

(f) *Military end use*. In this section, 'military end use' means: incorporation into a military item described on the U.S. Munitions List (USML) (22 CFR part 121, International Traffic in Arms Regulations); incorporation into a military item described on the Wassenaar Arrangement Munitions List (as set out on the Wassenaar Arrangement Web site at *http://www.wassenaar.org*); incorporation into items classified under ECCNs ending in ''A018'' or under ''600 series'' ECCNs; or for the ''use,'' ''development,'' or ''production'' of military items described on the USML or the Wassenaar Arrangement Munitions List, or items

classified under ECCNs ending in ''A018'' or under ''600 series'' ECCNs. 'Military end use' also means deployment of items classified under ECCN 9A991 as set forth in supplement no. 2 to part 744.

NOTE TO PARAGRAPH (f) OF THIS SECTION: (1) As defined in Part 772 of the EAR, ''use'' means operation, installation (including on-site installation), maintenance (checking), repair, overhaul and refurbishing; ''development'' is related to all stages prior to serial production, such as: design, design research, design analyses, design concepts, assembly and testing of prototypes, pilot production schemes, design data, process of transforming design data into a product, configuration design, integration design, layouts; and ''production'' means all production stages, such as: product engineering, manufacturing, integration, assembly (mounting), inspection, testing, quality assurance.

(2) For purposes of this section, ''operation'' means to cause to function as intended; ''installation'' means to make ready for use, and includes connecting, integrating, incorporating, loading software, and testing; ''maintenance'' means performing work to bring an item to its original or designed capacity and efficiency for its intended purpose, and includes testing, measuring, adjusting, inspecting, replacing parts, restoring, calibrating, overhauling; and ''deployment'' means placing in battle formation or appropriate strategic position.

(g) *Military end user*. In this section, the term 'military end user' means the national armed services (army, navy, marine, air force, or coast guard), as well as the national guard and national police, government intelligence or reconnaissance organizations, or any person or entity whose actions or functions are intended to support 'military end uses' as defined in paragraph (f) of this section.

(h) *Effects on contracts. Venezuela:* Transactions involving the export, reexport or transfer (in country) of items to or within Venezuela are not subject to the provisions of § 744.21 if the contracts for such transactions were signed prior to November 7, 2014.

[79 FR 66289, Nov. 7, 2014, as amended at 79 FR 77866, Dec. 29, 2014; 80 FR 39955, July 13, 2015]

§ 744.22 [Reserved]

SUPPLEMENT NO. 1 TO PART 744—MILITARY END-USE EXAMPLES FOR § 744.17

(a) *Examples of military end-uses (as described in § 744.17 (d) of this part) of general-purpose microprocessors classified as ECCN 3A991.a.1 includes employing such microprocessors in the ''use'', ''development'', ''production'', or deployment of:*

(1) Cruise missiles;

(2) Electronic suites of military aircraft and helicopters;

(3) Radar for searching, targeting, or tracking systems;

(4) Command/control/communications or navigation systems;

(5) Unmanned aerial vehicles capable of performing military reconnaissance, surveillance, or combat support;

(6) Rocket or missile systems;

(7) Electronic or information warfare systems; or

(8) Intelligence, reconnaissance, or surveillance systems suitable for supporting military operations.

(b) [Reserved]

[68 FR 1797, Jan. 14, 2003]

SUPPLEMENT NO. 2 TO PART 744—LIST OF ITEMS SUBJECT TO THE MILITARY END-USE LICENSE REQUIREMENT OF § 744.21

The following items, as described, are subject to the military end-use license requirement in § 744.21.

(1) Category 1—Materials, Chemicals, Microorganisms, and Toxins

(i) 1A290 Depleted uranium (any uranium containing less than 0.711% of the isotope U–235) in shipments of more than 1,000 kilograms in the form of shielding contained in X-ray units, radiographic exposure or teletherapy devices, radioactive thermoelectric generators, or packaging for the transportation of radioactive materials.

(ii) 1C990 Limited to fibrous and filamentary materials other than glass, aramid or polyethylene not controlled by 1C010 or 1C210, for use in ''composite'' structures and with a specific modulus of 3.18×10^6m or greater and a specific tensile strength of 7.62×10^4m or greater.

(iii) 1C996 Hydraulic fluids containing synthetic hydrocarbon oils, having all the characteristics in the List of Items Controlled.

(iv) 1D993 ''Software'' specially designed for the ''development'', ''production'', or ''use'' of equipment or materials controlled by 1C210.b, or 1C990.

(v) 1D999 Limited to specific software controlled by 1D999.b for equipment controlled by 1B999.e that is specially designed for the production of prepregs controlled in Category 1, n.e.s.

(vi) 1E994 Limited to ''technology'' for the ''development'', ''production'', or ''use'' of fibrous and filamentary materials other than glass, aramid or polyethylene controlled by 1C990.

(2) Category 2—Materials Processing

(i) 2A991 Limited to bearings and bearing systems not controlled by 2A001 and with operating temperatures above 573K (300 °C).

(ii) 2B991 Limited to ''numerically-controlled'' machine tools having ''positioning accuracies'', with all compensations available, less (better) than 9μ along any linear axis; and machine tools controlled under 2B991.d.1.a.

(iii) 2B992 Non-''numerically controlled'' machine tools for generating optical quality surfaces, and specially designed components therefor.

(iv) 2B996 Limited to dimensional inspection or measuring systems or equipment not controlled by 2B006 with measurement uncertainty equal to or less (better) than (1.7 + L/1000) micrometers in any axes (L measured Length in mm).

(3) Category 3—Electronics Design, Development and Production

(i) 3A992.g Limited to digital oscilloscopes and transient recorders, using analog-to-digital conversion techniques, capable of storing transients by sequentially sampling single-shot inputs at greater than 2.5 giga-samples per second.

(ii) 3A999.c All flash x-ray machines, and components of pulsed power systems designed thereof, including Marx generators, high power pulse shaping networks, high voltage capacitors, and triggers.

(iii) 3E991 Limited to ''technology'' according to the General Technology Note for the ''development'', ''production'', or ''use'' of digital oscilloscopes and transient recorders with sampling rates greater than 2.5 giga-samples per second, which are controlled by 3A992.g.

(4) Category 4—Computers

(i) 4A994 Limited to computers not controlled by 4A001 or 4A003, with an Adjusted Peak Performance (''APP'') exceeding 0.5 Weighted TeraFLOPS (WT).

(ii) 4D993 ''Program'' proof and validation ''software'', ''software'' allowing the automatic generation of ''source codes'', and operating system ''software'' that are specially designed for real time processing equipment.

(iii) 4D994 Limited to ''software'' specially designed or modified for the ''development'', ''production'', or ''use'' of equipment controlled by 4A101.

(5) Category 5—(Part 1) Telecommunications

(i) 5A991 Limited to telecommunications equipment designed to operate outside the temperature range from 219K (–54 °C) to 397K (124 °C), which is controlled by 5A991.a., radio equipment using Quadrature-amplitude-modulation (QAM) techniques, which is controlled by 5A991.b.7., and phased array antennae, operating above 10.5 Ghz, except landing systems meeting ICAO standards (MLS), which are controlled by 5A991.f.

(ii) 5D991 Limited to ''software'' specially designed or modified for the ''development'', ''production'', or ''use'' of equipment controlled by 5A991.a., 5A991.b.7., and 5A991.f., or of ''software'' specially designed or modified for the ''development'', ''production'', or ''use'' of equipment controlled by 5A991.a., 5A991.b.7., and 5A991.f.

(iii) 5E991 Limited to ''technology'' for the ''development'', ''production'' or ''use'' of equipment controlled by 5A991.a., 5A991.b.7., or 5A991.f., or of ''software'' specially designed or modified for the ''development'', ''production'', or ''use'' of equipment controlled by 5A991.a., 5A991.b.7., and 5A991.f.

(6) Category 6—Sensors and Lasers

(i) 6A995 ''Lasers'', not controlled by 6A005 or 6A205.

(ii) 6C992 Optical sensing fibers not controlled by 6A002.d.3 which are modified structurally to have a ''beat length'' of less than 500 mm (high birefringence) or optical sensor materials not described in 6C002.b and having a zinc content of equal to or more than 6% by ''mole fraction.''

(iii) 6A993 Cameras, not controlled by 6A003 or 6A203 as follows (see List of Items Controlled).

(7) Category 7—Navigation and Avionics

(i) 7A994 Other navigation direction finding equipment, airborne communication equipment, all aircraft inertial navigation systems not controlled under 7A003 or 7A103, and other avionic equipment, including parts and components, n.e.s.

(ii) 7B994 Other equipment for the test, inspection, or ''production'' of navigation and avionics equipment.

(iii) 7D994 ''Software'', n.e.s., for the ''development'', ''production'', or ''use'' of navigation, airborne communication and other avionics.

(iv) 7E994 ''Technology'', n.e.s., for the ''development'', ''production'', or ''use'' of navigation, airborne communication, and other avionics equipment.

(8) Category 8—Marine

(i) 8A992 Limited to underwater systems or equipment, not controlled by 8A001 or 8A002, and ''specially designed'' ''parts'' therefor.

(ii) 8D992 ''Software'' specially designed or modified for the ''development'', ''production'' or ''use'' of equipment controlled by 8A992.

(iii) 8E992 ''Technology'' for the ''development'', ''production'' or ''use'' of equipment controlled by 8A992.

(9) Category 9—Propulsion Systems, Space Vehicles and Related Equipment

(i) 9A991 Limited to ''aircraft'', n.e.s., and gas turbine engines not controlled by 9A001 or 9A101.

(ii) 9D991 ''Software'', for the ''development'' or ''production'' of equipment controlled by 9A991 or 9B991.

(iii) 9E991 ''Technology'', for the ''development'', ''production'' or ''use'' of equipment controlled by 9A991 or 9B991.

[72 FR 33658, June 19, 2007, as amended at 73 FR 36, Jan. 2, 2008; 74 FR 23948, May 22, 2009; 75 FR 54277, Sept. 7, 2010; 78 FR 13469, Feb. 28, 2013; 79 FR 23, Jan. 2, 2014; 81 FR 85144, Nov. 25, 2016]

SUPPLEMENT NO. 3 TO PART 744—COUNTRIES NOT SUBJECT TO CERTAIN NUCLEAR END-USE RESTRICTIONS IN §744.2(a)

Australia
Austria
Belgium
Canada
Denmark
Finland
France
Germany
Greece
Iceland
Ireland
Italy (includes San Marino and Holy See)
Japan
Luxembourg
Netherlands
New Zealand
Norway
Portugal
Spain
Sweden
Turkey
United Kingdom

[61 FR 12802, Mar. 25, 1996, as amended at 62 FR 25459, May 9, 1997; 66 FR 18402, Apr. 9, 2001]

SUPPLEMENT NO. 4 TO PART 744—ENTITY LIST

This Supplement lists certain entities subject to license requirements for specified items under this part 744 and part 746 of the EAR. License requirements for these entities include exports, reexports, and transfers (in-country) unless otherwise stated. This list of entities is revised and updated on a periodic basis in this Supplement by adding new or amended notifications and deleting notifications no longer in effect.

Country	Entity	License requirement	License review policy	FEDERAL REGISTER citation
AFGHANISTAN ..	Abdul Satar Ghoura, 501, 5th Floor, Amanullah Sancharaki Market Opp Chaman E Huzuri, Kabul, Afghanistan; and Flat No. 41 Block No. 24 Macroyan 3, Kabul, Afghanistan. (See alternate addresses under Pakistan).	For all items subject to the EAR. (See §744.11 of the EAR).	Presumption of denial	76 FR 71869, 11/21/11.
	Afghan-German Construction Company, Golaye Park, Shari Naw, Kabul, Afghanistan, *and* Dasht Qala, Takhar Province, Afghanistan.	For all items subject to the EAR. (See §744.11 of the EAR)..	Presumption of denial	77 FR 25057, 4/27/12.
	Assadullah Majed, 42S WD 18476 22167 Kabul, Afghanistan; and A2 Ground Floor, City Computer Plaza, Shar-e-Naw, Kabul, Afghanistan	For all items subject to the EAR. (See §744.11 of the EAR).	Presumption of denial	76 FR 71869, 11/21/11.
	Emal Bilal Construction Company (EBCC), a.k.a., the following two aliases: —Imal Bilal Road Construction Company; *and* —Aimal and Balal Company. Kolola Pushta, Charahi Gul-e-Surkh, Kabul, Afghanistan; *and* Maidan Sahr, Hetefaq Market, Paktiya, Afghanistan.	For all items subject to the EAR. (See §744.11 of the EAR).	Presumption of denial	79 FR 44683, 8/1/14.

Country	Entity	License requirement	License review policy	FEDERAL REGISTER citation
	Emal Bilal Mangal, a.k.a., the following three aliases: —Imal Bilal; *and* —Aimal Balal; *and* —Bellal Mangal. Kolola Pushta, Charahi Gul-e-Surkh, Kabul, Afghanistan; *and* Maidan Sahr, Hetefaq Market, Paktiya, Afghanistan.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 44683, 8/1/14.
	Fazal Rahim Farid, a.k.a., the following three aliases: —Fazel Rahim Farid; —Farid; and —Engineer Idris. Microrayan 3rd Apt. 45, block #21, Kabul, Afghanistan; and A2 Ground Floor, City Computer Plaza, Shar-e-Naw, Kabul, Afghanistan. (See alternate addresses under Pakistan).	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	76 FR 71869, 11/21/11.
	Gulf Gate Sea Cargo LLC, Gulzaad Market Building, 4th Floor, Room 2, Kabul, Afghanistan.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 40178, 6/21/16.
	Habib ur Rahman, a.k.a., the following two aliases: —Hanif; and —Habib Rahman. Ghazni City, Afghanistan.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	76 FR 71869, 11/21/11.
	Haji Khalil Construction Company, Wazir Akbar Khan, Road Number 10, In front of National Bank, District 10, Kabul, Afghanistan.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	77 FR 25057, 4/27/12.
	Hanif Computer Zone (HCZ), Ghazni City, Afghanistan.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	76 FR 71869, 11/21/11.
	Heim German Afghan Khalil Company, Wazir Akbar Khan, District 10, Kabul, Afghanistan; *and* Shahr-e-Now, Kabul, Afghanistan, *and* Paktiyakoot, Jalalabad Road, District #9, Kabul, Afghanistan.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	77 FR 25057, 4/27/12.
	Ibrahim Haqqani, a.k.a., the following two aliases: —Hajji Sahib; *and* —Maulawi Haji Ibrahim Haqqani.	For all items subject to the EAR. (See § 744.11 of the EAR)..	Presumption of denial	77 FR 25057, 4/27/12.
	Iqra Computer Products, a.k.a., the following two aliases: —Iqra IT solutions; and —Iqra Computer Store. A2 Ground Floor, City Computer Plaza, Shar-e-Naw, Kabul, Afghanistan.	For all items subject to the EAR. (See § 744.11 of the EAR)..	Presumption of denial	76 FR 71869, 11/21/11.
	Khalil Zadran, a.k.a., the following eight aliases: —Samar Gul Khalil; —Khalil Samar Gul; —Samer Khalil; —Samer Gul Khalil; —Khlil Khalil; —Kalil Khalil; —Khalil Khualil; *and* —Haji Khalil. Shahreno, Kabul, Afghanistan. (See alternate address in Pakistan).	For all items subject to the EAR. (See § 744.11 of the EAR)	Presumption of denial	77 FR 25057, 4/27/12.

Country	Entity	License requirement	License review policy	FEDERAL REGISTER citation
	Khalil Zadran Company, a.k.a., the following alias: —Khalil Construction. Afghanistan (See alternate address in Pakistan).	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	77 FR 25057, 4/27/12.
	Kurshid Ghoura, a.k.a., the following two aliases: —Kurshed Ghoura; and —Kursheed Ghoura. 501, 5th Floor, Amanullah Sancharaki Market Opp Chaman E Huzuri, Kabul, Afghanistan; and Flat No. 41 Block No. 24 Macroyan 3, Kabul, Afghanistan. (See alternate addresses under Pakistan).	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	76 FR 71869, 11/21/11.
	Lapcom Computer Stores, A2 Ground Floor, City Computer Plaza, Shar-e-Naw, Kabul, Afghanistan. (See alternate address under Pakistan).	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	76 FR 71869, 11/21/11.
	Mohammad Jan Khan Mangal, Kolola Pushta, Charahi Gul-e-Surkh, Kabul, Afghanistan; *and* Maidan Sahr, Hetefaq Market, Paktiya, Afghanistan.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 44683, 8/1/14.
	Mohammad Jan Mangal Construction Company (MMCC), Kolola Pushta, Charahi Gul-e-Surkh, Kabul, Afghanistan; *and* Maidan Sahr, Hetefaq Market, Paktiya, Afghanistan.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 56003, 9/18/14.
	Muhammad Halim Ghoura, 501, 5th Floor, Amanullah Sancharaki Market Opp Chaman E Huzuri, Kabul, Afghanistan; and Flat No. 41 Block No. 24 Macroyan 3, Kabul, Afghanistan. (See alternate addresses under Pakistan).	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	76 FR 71869, 11/21/11.
	Ologh Beg International Forwarders Ltd., 501, 5th Floor, Amanullah Sancharaki Market Opp Chaman E Huzuri, Kabul, Afghanistan. (See alternate address under Pakistan).	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	76 FR 71869, 11/21/11.
	Onyx Construction Company, Shahr-e-Now, Charahi Haji Yaqoub, In front of the AIB Bank, District 10, Kabul, Afghanistan; *and* Char Rahi Ansari, Toaward Kolola Poshta, Shar-Naw Kabul, Afghanistan 11496.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	77 FR 25057, 4/27/12.
	Qazi Abdallah, a.k.a., the following four aliases: —Khan Dilawar; —Ibrahim Valid Javaid; —Jawid, Sa'id Jan 'Abd-al-Salam; and —Ibrahim Walid Microrayan 3rd Apt. 45, Block No. 21, Kabul, Afghanistan.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	76 FR 71869, 11/21/11.
	Shan Mahmoud Khan Mangal, Kolola Pushta, Charahi Gul-e-Surkh, Kabul, Afghanistan; *and* Maidan Sahr, Hetefaq Market, Paktiya, Afghanistan.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 44683, 8/1/14.
	Triangle Technologies, Afghanistan.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	77 FR 25057, 4/27/12.
	Wahab Karwan Construction Company (WKCC), Qabel Boy, Jalalabad Road, District 9, Kabul, Afghanistan.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 44683, 8/1/14.

Country	Entity	License requirement	License review policy	FEDERAL REGISTER citation
	Zurmat Construction Company offices, House No. 319, 10th Street Wazeer Akbar Khan, Kabul, Afghanistan; *and* Wazir Akbar Khan, District 10, Apartment 319, Kabul, Afghanistan; *and* Tarin Cot City, Afghanistan; *and* Behind UNAMA Office, Pir Bagh Office, Gardez, Afghanistan; *and* House No. 01, Street No. 01, Muhaqeq Road (Behind Pakistan and Turkish Embassies), Mazar-e-Sharif, Afghanistan; *and* Hazratan Street (Behind Jalalalabad Teaching Hospital), Jalalalabad, Afghanistan, *and* Aino Mena, Street No. 22 (Blue Color House Left Side of Road), Kandahar, Afghanistan.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	77 FR 25057, 4/27/12.
	Zurmat Foundation, House No. 319, 10th Street Wazeer Akbar Khan, Kabul, Afghanistan; *and* Wazir Muhammad—Akbar Khan, Kabul, Afghanistan; *and* Wazir Akbar Khan, District 10, Apartment 319, Kabul, Afghanistan.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	77 FR 25057, 4/27/12.
	Zurmat Group of Companies, House No. 319, 10th Street Wazeer Akbar Khan, Kabul, Afghanistan.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	77 FR 25057, 4/27/12.
	Zurmat Material Testing Laboratory, House 01, Street 01, Kart-e-3 (opposite of Habibia High School), Dar-ul-Aman Road, Kabul, Afghanistan; *and* House No. 02, Street No. 01, Kart-e-Malemin, Khandahar, Afghanistan.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	77 FR 25057, 4/27/12.
ARMENIA	Bold Bridge International, LLC, a.k.a. the following alias: —BB Bold Bridge International. Room 463, H. Hakobyan 3, Yerevan, Armenia.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	75 FR 1701, 1/13/10. 77 FR 24590, 4/25/12.
	Vertir Airlines, 8/3 D Angaght Street, 376009, Yerevan, Armenia; *and* 54–100 Mamikonyan Str., Yerevan, Armenial 79, Armenia.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	78 FR 75463, 12/12/13.
	Veteran Avia LLC a.k.a., the following alias: —Veteran Airline. 64, Baghramyam Avenue, Apt 16, Yerevan 0033, Armenia; *and* 1 Eervand Kochari Street Room 1, 375070 Yerevan, Armenia (See also addresses under Greece, India, Pakistan, and U.K.)	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 56003, 9/18/14. 81 FR 8829, 2/23/16.
AUSTRALIA	Vortex Electronics, 125 Walker Street, Quakers Hill, NSW 2763, Australia.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 56003, 9/18/14.
AUSTRIA	Gulf Gate Spedition GmbH, A–1040 Argentinierstrasse 35/6, Vienna, Austria.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 40178, 6/21/16.
BELARUS	Belmicrosystems Research and Design Center, Office 313, 12 Korzhenevsky Street, 20108 Minsk, Republic of Belarus; *and* Korjenevsky Str., 12, Minsk, 220108, Republic of Belarus; *and* 12, Korzhenevskogo Str., Minsk, 220108, Republic of Belarus.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	75 FR 36516, 6/28/10. 77 FR 58006, 9/19/12.

Country	Entity	License requirement	License review policy	FEDERAL REGISTER citation
	SOE Semiconductor Devices Factory, Office 313, 12 Korzhenevsky Street, 20108 Minsk, Republic of Belarus; *and* Korjenevsky Str., 12, Minsk, 220108, Republic of Belarus; *and* 12, Korzhenevskogo Str., Minsk, 220108, Republic of Belarus.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	75 FR 36516, 6/28/10. 77 FR 58006, 9/19/12.
	Vasili Kuntsevich, Office 313, 12 Korzhenevsky Street, 20108 Minsk, Republic of Belarus; *and* Korjenevsky Str., 12, Minsk, 220108, Republic of Belarus; *and* 12, Korzhenevskogo Str., Minsk, 220108, Republic of Belarus.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	75 FR 36516, 6/28/10. 77 FR 58006, 9/19/12.
BELIZE	Experian Holdings, Inc., N Eyre Str, Blake Bldg, Suite 302, Belize City, Belize 99008; *and* Corner Hutson Eyre Str, Blake Bldg, Suite 302, Belize City, Belize 99008.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
CANADA	Abou El-Khir Al Joundi, a.k.a., the following six aliases: —Abou El Kheir Joundi; —Abou Elkhir Al Joundi; —Abou Joundi Et Kheir; —Al Joundi; —Al Jundi; *and* —Elkheir Aljoundi Abou. 2706 Carre Denise Pelletier, Montreal, Quebec, H4R 2T5 Canada.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	77 FR 23116 4/18/12.
	Alex Woolf, 2021 Atwater Street, Suite 216, Montreal, Quebec, Canada H3H2P2.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Alexandre Ivjenko, a.k.a., the following one alias: —Alexander Ivjenko, 7150 Rue Chouinard, Montreal, QC, H8N 2Z6 Canada.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Ali Bakhshien, 909–4005 Bayview Ave., Toronto, Canada M2M 3Z9; and HSBC Tower, Suite 502, 3601 Highway 7 East, Markham, Ontario, L3R 0M3, Canada.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	73 FR 54504, 9/22/08. 76 FR 71869, 11/21/11.
	Anastasiya Ivjenko, 7150 Rue Chouinard, Montreal, QC, H8N 2Z6, Canada.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Anastassia Voronkevitch, 7150 Rue Chouinard, Montreal, QC H8N 2Z6 Canada	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61249, 10/9/12, 78 FR 75463, 12/12/13.
	Canada Lab Instruments, a.k.a., the following alias: SCO North America 5995 Gouin Ouest, #212, Montreal, Quebec, H4J 2P8 Canada.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	77 FR 23116 4/18/12.
	EKT 2, Inc., 371 Renforth Drive, Etobicoke M9C 2L8, Toronto, Ontario, Canada	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	77 FR 24590, 4/25/12.
	Enterprise Chips Hunter (ECH), 2021 Atwater Street, Suite 216, Montreal, Quebec, Canada H3H2P2.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Kitro Corporation, 909–4005 Bayview Ave., Toronto, Canada M2M 3Z9; and HSBC Tower, Suite 502, 3601 Highway 7 East, Markham, Ontario, L3R 0M3, Canada.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	73 FR 54504, 9/22/08. 76 FR 71869, 11/21/11.

Country	Entity	License requirement	License review policy	FEDERAL REGISTER citation
	Liubov ''Luba'' Skvortsova, a.k.a., the following one alias: —Lubov Skvortsova, 7150 Rue Chouinard, Montreal, QC, H8N 2Z6 Canada.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Magtech, a.k.a., the following one alias: —M.A.G. Tech, 5762 Royalmount Ave, Montreal, QC, H4P 1K5, Canada; *and* 5440 Queen Mart St, Office 103, Montreal, Canada.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Maria Pashovkina, 7150 Rue Chouinard, Montreal, QC, H8N 2Z6, Canada.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Mercury Electronic Solutions, a.k.a., the following one alias: —Mercury Group International, 380 Vansickle Rd Unit 660, St. Catharines, ON L2126P7, Canada; *and* 127 Rue Wilson, Dollard-des-Ormeaux, Quebec H9A1W7, Canada.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Natalie Sobolev, 5762 Royalmount Ave, Montreal, QC H4P 1K5, Canada; *and* 5440 Queen Mart St., Office 103, Montreal, Canada.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Saeed Talebi, a.k.a., the following two aliases: Al; *and* Allen Talebi. P.O. Box 626, Gormley, ONT L0H 1G0 Canada (See alternate addresses under Iran and U.A.E.)	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	78 FR 75463, 12/12/13.
	Satco Corporation, P.O. Box 626, Gormley, ONT L0H 1G0 Canada	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	78 FR 75463, 12/12/13.
	Sputnik E, 7150 Rue Chouinard, Montreal, QC H8N 2Z6 Canada.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Zurab Kartvelishvili, a.k.a., the following one alias: George Kartveli. 7380 Vansickle Rd. Unit 660, St. Catharines, ON L2126P7, Canada; *and* 127 Rue Wilson, Dollard-des-Ormeaux, Quebec H9A 1W7, Canada	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61249, 10/9/12. 78 FR 75463, 12/12/13.
CHINA, PEOPLE'S REPUBLIC OF.	13 Institute, China Academy of Launch Vehicle Technology (CALT), a.k.a., the following six aliases: —13th Institute China Aerospace Times Electronics Corp (CATEC); —713 Institute of Beijing; —Institute of Control Devices (BICD); —Beijing Institute of Aerospace Control Devices (BIACD); —Beijing Aerospace Control Instruments Institute; *and* —Design and Manufacture Center of Navigation and Control Device	For all items subject to the EAR.	See § 744.3(d) of this part.	66 FR 24265, 5/14/01. 75 FR 78877, 12/17/10.
	33 Institute, a.k.a., the following three aliases: —Beijing Automation Control Equipment Institute (BACEI); —Beijing Institute of Automatic Control Equipment, China Haiying Electromechanical Technology Academy; *and* —No. 33 Research Institute of the Third Academy of China Aerospace Science and Industry Corp (CASIC): Yungang, Fengtai District, Beijing	For all items subject to the EAR.	See § 744.3(d) of this part.	66 FR 24266, 5/14/01. 75 FR 78883, 12/17/10. 77 FR 58006, 9/19/12. 81 FR 64696, 9/20/16.

Country	Entity	License requirement	License review policy	FEDERAL REGISTER citation
	35 Institute, a.k.a., the following four aliases: —Beijing Hangxing Machine Building Corporation; —Beijing Huahang Radio Measurements Research Institute, China Haiying Electronic Mechanical Technical Research Academy; —Huahang Institute of Radio Measurement; *and* —No. 35 Research Institute of the Third Academy of China Aerospace Science and Industry Corp (CASIC):	For all items subject to the EAR.	See § 744.3(d) of this part.	66 FR 24266, 5/14/01. 75 FR 78883, 12/17/10. 77 FR 58006, 9/19/12. 81 FR 64696, 9/20/16.
	54th Research Institute of China, a.k.a., the following three aliases: —China Electronics Technology Group Corp. (CETC) 54th Research Institute; —Communication, Telemetry and Telecontrol Research Institute (CTI); *and* —Shijiazhuang Communication Observation and Control Technology Institute.	For all items subject to the EAR.	See § 744.3(d) of this part.	66 FR 24266, 5/14/01. 75 FR 78883, 12/17/10. 77 FR 58006, 9/19/12. 81 FR 64696, 9/20/16.
	A.C. International, Room 1104, North Tower Yueziu City Plaza, No. 445 Dong Feng Zhong Rd., Guangzhou, China	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	73 FR 54503, 9/22/08.
	Alpha Lam, 15H Office Building, Buji Central Plaza, Jihua Road, Buji Longgang, Shenzhen, China (See alternate address under Hong Kong)	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 32445, 6/5/14.
	Asia International Trading Company, Room 1104, North Tower Yueziu City Plaza, No. 445 Dong Feng Zhong Rd., Guangzhou, China	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	73 FR 54503, 9/22/08.
	Baotou Guanghua Chemical Industrial Corporation (Parent Organization: China National Nuclear Group Corporation (CNNC)), a.k.a., the following five aliases: —202 Plant, Baotou Nuclear Energy Facility; —Baotou Guanghua Chemical Industrial Corporation; —Baotou Guanghua Chemical Industry Company; —Baotou Nuclear Fuel Element Plant; *and* —China Nuclear Baotou Guanghua Chemical Industry Company. 202 Factory Baotou, Inner Mongolia.	For all items subject to the EAR.	See § 744.2(d) of this part.	66 FR 24266, 5/14/01 75 FR 78883, 12/17/10. 81 FR 64696, 9/20/16.
	Beijing 8 Star International Co., Unit 601, 6th Floor, Tower 1, Prosper Center, No. 5, Guanghua Road, Chaoyang District, Beijing, China.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 12006, 3/8/16.
	Beijing Aeronautical Manufacturing Technology Research Institute, a.k.a., the following two aliases: —BAMTRI; *and* —Aviation Industry Corporation of China's (AVIC) Institute 625. No. 1 East Military Village, North Baliqiao Station, Chaoyang District, Beijing, China; *and* Xue Yuan Road No. 37, HaiDian District, Beijing, China.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of approval for EAR99; case-by-case review for all items on the CCL.	79 FR 24566, 5/1/14.

Country	Entity	License requirement	License review policy	FEDERAL REGISTER citation
	Beijing Aeronautics Yangpu Technology Investment Company (BAYTIC), a.k.a., the following three aliases: —Beijing Aerospace Yangpu Technology Investment Company; *and* —Tian Hang Yang Pu Technology Investment Limited Company; *and* —Bei Jing Tian Hang Yang Pu Technology Investment Limited Company. No. 27 Xiaoyun Road, Chaoyang District, Beijing 100027, China; *and* Room 3120, Building 1, 16 Zhufang Road, Haidian District, Beijing, China.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 44683, 8/1/14.
	Beijing Aerospace Automatic Control Institute (BICD), a.k.a., the following four aliases: —12th Research Institute China Academy of Launch Vehicle Technology (CALT); —Beijing Institute of Space Automatic Control; —Beijing Spaceflight Autocontrol Research Institute; *and* —China Aerospace Science and Technology Corp First Academy 12th Research Institute. 51 Yong Ding Road, Beijing; *and* No. 50 Yongding Road, Haidian District, Beijing, China, 100854.	For all items subject to the EAR.	See § 744.3 of this part.	64 FR 28909, 5/28/99. 75 FR 78883, 12/17/10. 77 FR 58006, 9/19/12. 81 FR 64696, 9/20/16.
	Beijing FJR Optoelectronic Technology Company Ltd, a.k.a, the following three aliases: —FJIR Optoelectronic Technology Company Ltd.; —Beijing Fu Jerry; *and* —Fu Jirui. No. 2A Zhonghuan South Road, Wangjing, Chaoyang District, Beijing, China, 100102; *and* Room 302 Office, Bldg. 11, No. 4, Anningzhuang Rd, Beijing, China, 100085; *and* Beijing Shunyi district airport into 25–4, Huiyuan, 25th floor, 100028, Beijing; *and* 25–4 Yuhua Rd, 25th Floor, Shunyi District, Beijing, China 101318.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	80 FR 44849, 7/28/15.
	Beijing Institute of Structure and Environmental Engineering (BISE), a.k.a., the following two aliases: —702nd Research Institute, China Academy of Launch Vehicle Technology (CALT); *and* —Beijing Institute of Strength and Environmental Engineering No. 30 Wanyuan Road, Beijing.	For all items subject to the EAR.	See § 744.3 of this part.	64 FR 28909, 5/28/99 75 FR 78877, 12/17/10. 81 FR 64696, 9/20/16.
	Beijing Lion Heart International Trading Company, a.k.a., the following one alias: —Wei Lai Xi Tong Ltd. Suite number 1819, The International Center of Times, Number 101, Shoa Yao Ju BeiLi, Chaoyang District, Beijing, China (See also address under Hong Kong).	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 56003, 9/18/14.

Country	Entity	License requirement	License review policy	FEDERAL REGISTER citation
	Beijing Opto-Electronics Technology Company, a.k.a., the following one alias: —BOET No. 4, Jiuxianqiao Road, Chaoyang District, Beijing, China, 100015.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	80 FR 44849, 7/28/15.
	Beijing Power Machinery Institute, a.k.a., the following three aliases: —31st Research Institute of China Aerospace Science and Industry Corp (CASIC) or China Haiying Electromechanical Technology Academy (a.k.a., China Haiying Science & Technology Corporation); —Beijing Power Generating Machinery Institute; *and* —Beijing Power Machinery Research Laboratory	For all items subject to the EAR.	See § 744.3(d) of this part.	66 FR 24266, 5/14/01. 75 FR 78877, 12/17/10.
	Beijing Tianhua, a.k.a., the following seventeen aliases: Beijing Tianhua International Co., Ltd.; Beijing BUAA Tianhua Technology Company; Beijing BUAA Tianhua Technology Co., Ltd.; Beijing Aerospace Technology Limited Liability Company; Beihang Tenfine Industry Group; Beijing Beihang Assets Management Co., Ltd.; Beijing Beihang Science & Technology Co., Ltd.; Beijing Aerospace Technology LLC; Beijing North China Aerospace Science & Technology Ltd., Co.; Beijing North Space Technology Co., Ltd.; Beijing the Tianhua Easytouch International Trade Co., Ltd.; North and Astronautics, Beijing China Times Technology Co., Ltd.; Beijing Beihang Haier Software Co., Ltd.; Red Technology; TRW Navigation Communication Technology Co., Ltd.; Beijing North Aerospace Co-Technology Co., Ltd.; *and* Beijing Full Three Dimensional Power Engineering Co., Ltd. 37 Xue Yuan Rd., Beijing, China; *and* Room 301, 3f Shining Tower, 35 Xue Yuan Lu, Haidian District, Beijing, China; *and* Room 311A, 3f Shining Tower, 35 Xue Yuan Lu, Haidian, Beijing, China; *and* Room 411A, 4f Shining Tower, 35 Xue Yuan Lu, Haidian, Beijing, China; *and* Room 401, 4f Shining Tower, 35 Xue Yuan Lu, Haidian District, Beijing, China; *and* Room 402a, 4f Shining Tower, 35 Xue Yuan Lu, Haidian, Beijing, China; *and* Xueyan Road, Haidain District, Beijing City, 35th Ning Building, Room 402a	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	78 FR 75463, 12/12/13.
	Beijing University of Aeronautics and Astronautics (BUAA), a.k.a., the following alias: —Beihang University. 37 Xueyuan Road, Haidan District, Beijing.	For all items subject to the EAR.	See § 744.3(d) of this part.	66 FR 24266, 5/14/01. 70 FR 54629, 9/16/05. 75 FR 78877, 12/17/10.

Country	Entity	License requirement	License review policy	FEDERAL REGISTER citation
	BOP Opto-Electronics Technology Company, a.k.a., the following one alias: —Beijing BOP Electro-Optics. No. 10, Jiuxianqiao North Road, Chaoyang District, Beijing, China, 100016; *and* No. 4 Jiuxianqiao Road, Chaoyang District, Beijing, China, 100015.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	80 FR 44849, 7/28/15.
	BVI Electronics, B28 10/F Nanfang Da Sha, XIDI Ernalu GangZhou, China 511486 (See alternate address under Hong Kong).	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 32445, 6/5/14.
	Chen Qu, a.k.a., the following one alias: —Chen Choo. No. 5, Jereh Road, Laishan District, Yantai Shandong Province, China.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 14958, 3/21/16.
	Chengdu GaStone Technology Co., Ltd. (CGTC), a.k.a., the following one alias: —Chengdu Jiashi Technology Co. 31F, A Tower, Yanlord Square, No. 1, Section 2, Renmind South Road, Chengdu China; *and* Internet of Things Industrial Park Economic Development District Xinan Hangkonggang (Southwest Airport), Shuangliu County, Chengdu; *and* 29th Floor, Yanlord Landmark, No. 1 Renmin South Road Section 2, Chengdu; *and* 29/F Yanlord Landmark Tower A, Chengdu, China.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 44683, 8/1/14. 81 FR 14958, 3/21/16.
	Chengdu Latest Electronics Technology Company, No. 2069 West Yuanda Road, Pixian Modern Industry Harbor South District, Chengdu, Sichuan, China 611730; *and* Suite 1–6–1702, West Diaoyu Yaijia Garden, Haidian District, Beijing, China 100142; *and* C8–1–402 Xiduan Zhonghua Century city, Technology Road, Xian, China 710075; *and* 2–308 No. 115 Hongshan Road, Nanjing, China 210018.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 24565, 5/1/14.
	China Aerodynamics Research and Development Center (CARDC). Sichuan Province.	For all items subject to the EAR.	See § 744.3 of this part.	64 FR 28910, 5/28/99. 81 FR 64696, 9/20/16.

Country	Entity	License requirement	License review policy	FEDERAL REGISTER citation
	China Electronic Technology Group Corporation No. 11 Research Institute, a.k.a, the following three aliases, *including the named subordinate institutions:* —North China Research Institute of Electro-Optics (NCRIEO); —China North Research Institute of Electro-Optics; *and* —CETC 11th Research Institute (CETC 11th RI). *Subordinate institution* Beijing Laiyin Company Ltd, a.k.a., the following one alias, —Beijing North China Lai Yin Opto-Electronics Technology Company. *Subordinate Institution:* China Electronics Technology Corporation (CETC) Infrared Engineering and Technology Company, a.k.a., the following one alias: —CETC Infrared or CETC IR. No. 10, Jiuxianqiao North Road, Chaoyang District, Beijing, China, 100016; *and* No. 4 Jiuxianqiao Road, Chaoyang District, Beijing, China, 100015; *and* Electronic City of Zhong Guan Cun Technical Zone, Beijing, China, 100015.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	80 FR 44849, 7/28/15.
	China Electronics Technology Group Corporation 29 (CETC 29) Research Institute, a.k.a., the following ten aliases: —CETC 29th Research Institute; —China Southwest Electronic Equipment Research Institute (SWIEE); —29 (SIWEI Co) Institute; —SIWI Electronics Corporation; —Chengdu SIWI Electronics Inc.; —Chengdu SIWEI Electronics Company; —Chengdu 29 Institute; —Si Wei Company 29th Institute; —SIWI Group; *and* —Southwest China Institute of Electronics No. 496 West Yingkang Road, Chengdu, Sichuan Province 610036, China; *and* Box #429, #1 Waixichadianziheng Street, Chengdu, Sichuan Province 610036, China; *and* 5 Cheng Wen Road, Chengdu, China 610036; *and* No.3 Research Department, Zhongdian, China; *and* No. 29 Institute, Waixi Chadi, Chengdu, China; *and* No.81 BaiChao Road, XiPu Town, PiXian County, Chengdu, China; *and* Siwei Electron Mansion, Xiejiasi, Qingyang, Chengdu, China; *and* 1 Hengjie Chadianzi Western Suburb, Chengdu, China.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 44680, 8/1/14. 80 FR 69856, 11/12/15.
	China National Commercial New Tone Trading Company Ltd, Room 616, 2nd Building, No. 45 Fuxingmennei St, Beijing, China, 100801; *and* No. 45 Fuxing Mennei Avenue, Xicheng District, Beijing, China, 100801.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	80 FR 44849, 7/28/15.

Country	Entity	License requirement	License review policy	FEDERAL REGISTER citation
	China Xinshidai Company, a.k.a., the following one alias: -China New Era Group Xinshidai Plaza, Plaza No. 7 Huayuan Rd., Beijing, China	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 36202, 6/26/14.
	Chinese Academy of Engineering Physics, a.k.a., the following seventeen aliases: —Ninth Academy; —Southwest Computing Center; —Southwest Institute of Applied Electronics; —Southwest Institute of Chemical Materials; —Southwest Institute of Electronic Engineering; —Southwest Institute of Environmental Testing; —Southwest Institute of Explosives and Chemical Engineering; —Southwest Institute of Fluid Physics; —Southwest Institute of General Designing and Assembly; —Southwest Institute of Machining Technology; —Southwest Institute of Materials; —Southwest Institute of Nuclear Physics and Chemistry (a.k.a., China Academy of Engineering Physics (CAEP)'s 902 Institute); —Southwest Institute of Research and Applications of Special Materials Factory; —Southwest Institute of Structural Mechanics; (all of preceding located in or near Mianyang, Sichuan Province) —The High Power Laser Laboratory, Shanghai; —The Institute of Applied Physics and Computational Mathematics, Beijing; *and* —901 Institute (P.O. Box 523 Chengdu, 6100003).	For all items subject to the EAR.	Case-by-case basis ..	62 FR 35334, 6/30/97. 66 FR 24266, 5/14/01. 75 FR 78883, 12/17/10. 76 FR 21628, 4/18/11. 76 FR 50407, 8/15/11. 77 FR 58006, 9/19/12.
	Chitron Electronics Company Ltd, a.k.a., Chi-Chuang Electronics Company Ltd (Chitron Shenzhen), 2127 Sungang Rd, Huatong Bldg, 19/F Louhu Dist, Shenzhen, China 518001; and 169 Fucheng Rd, Fenggu Bldg, 7/F, Mianyang, China 621000; and Zhi Chun Rd, No 2 Bldg of Hoajing jiayuan, Suite #804, Haidian Dist, Beijing, China 100086; and 40 North Chang'an Rd, Xi'an Electronics Plaza Suite #516, Xi'an, China 710061; and 9 Huapu Rd, Chengbei Electronics & Apparatus Mall, 1/F Suite #39, Chengdu, China 610081; and 2 North Linping Rd, Bldg 1, Suite #1706, Hongkou Dist, Shanghai, China 200086 (See alternate address under Hong Kong)	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	75 FR 1701, 1/13/10.
	Comsum Technologies (Group) Ltd., Room 408, Unit 6, Xin Qi Dian Jia Yan, 5 Chang Qiao Road, Beijing, 100089, China (See alternate address under Hong Kong)	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	78 FR 75463, 12/12/13.

Country	Entity	License requirement	License review policy	FEDERAL REGISTER citation
	Corezing International, (a.k.a., CoreZing Electronics, Corezing International Group Company, Corezing International Pte Ltd, Corezing Technology Pte Ltd and Core Zing), Room 1007, Block C2, Galaxy Century Bldg., CaiTian Rd., FuTian District, Shenzhen, China; *and* Room 1702, Tower B, Honesty Building, Humen, Dongguan, Guangdong, China (See alternate addresses under Hong Kong and Singapore)	For all items subject to the EAR. (See § 744.11 of the EAR)	Presumption of denial	76 FR 67062, 10/31/11.
	Dalian Ligong Safety Equipment Company Limited, No. 26 Liaohe East Road, Double D Port, Economic and Technological Development Zone, Dalian, China 116620.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 24565, 5/1/14.
	Edward Fan, No. 5, Jereh Road, Laishan District, Yantai Shandong Province, China.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 14958, 3/21/16.
	Fang Yu, 16 Gaoxin 4th Road, Xian High Tech Industrial Development Zone, Xian, China	For all items subject to the EAR. (See 744.11 of the EAR).	Presumption of denial	75 FR 36519, 6/28/10.
	First Department, Chinese Academy of Launch Vehicle Technology (CALT), a.k.a., the following three aliases: —1st General Design Department (a.k.a., Planning Department No 1) of the China Aerospace Science & Technology Corporation's First Academy (CALT); —Beijing Institute of Astronautic Systems Engineering; *and* —Beijing Institute of Space System Engineering. 1 South Dahongmen Road, Fengtai District, Beijing 100076.	For all items subject to the EAR.	See § 744.3(d) of this part.	66 FR 24266, 5/14/01. 75 FR 78883, 12/17/10. 77 FR 58006, 9/19/12.
	Foang Tech Inc., a.k.a., the following one alias: —Ofogh Electronics Co. 52F, Shun Hing Square, Unit 1–8 Di Wang Commercial Center, Shenzhen, China (See alternate address under Hong Kong).	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 40178, 6/21/16.
	Fushun Jinly Petrochemical Carbon Co., Ltd., Room 2104, Jinhui Plaza, No. 16 Dongsi Road, Xinfu District, Fushun, Liaoning, China; *and* 113015 East of No. 2 Petroleum Factory, Dongzhou District, Fushun, Liaoning, China, 113004.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 24565, 5/1/14.
	Fuyuan Huang, No. 2A Zhonghuan South Road, Wangjing, Chaoyang District, Beijing, China, 100102; *and* Room 302 Office, Bldg 11, No. 4, Anningzhuang Rd, Beijing, China, 100085.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	80 FR 44849, 7/28/15.
	Gala Wang, Room 2506, Hengchang Building, No. 288, Hing Si Road, Jinan City, Shandong, China.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 14958, 3/21/16.
	HWA Create, 5/F, Xinshidai Building/New Era Mansion, 7 Huayuan Rd., Beijing, China; *and* No. B3 Huayuan Rd., Beijing, China (See alternate addresses under Hong Kong)	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 36202, 6/26/14.

Country	Entity	License requirement	License review policy	FEDERAL REGISTER citation
	Jadeshine, R1102 B Tainyuangang Center, Dong San Bei Lu Bing 2, Chaoyang District, Beijing, China	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	78 FR 18811, 3/28/13.
	Jadeshine Engineering HK Co., Shanghai, China; *and* Langfang, China. (See alternate address under Hong Kong)	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	78 FR 18811, 3/28/13.
	Jereh International, No. 5, Jereh Road, Laishan District, Yantai Shandong Province, China.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 14958, 3/21/16.
	Jiangsu Leidian Technology Company (JLTC), 88 Luyuan Road, Yixing Environmental Sciences Park, Jiangsu Province, China.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 44683, 8/1/14.
	Jinan Tongbaolai Oilfield Equipment Co. Ltd, Room 2506, Hengchang Building, No. 288, Hing Si Road, Jinan City, Shandong, China.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 14958, 3/21/16.
	Kinglead Electronics Co., Ltd., a.k.a., the following two aliases: —Kinglead International Trading, *and* —Kinglead Trading. 15H Office Building Buji, Central Plaza, Jihua Road, Buji, Longgang, Shenzhen, China (See alternate address under Hong Kong).	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 32445, 6/5/14.
	Liaoyang Carbon Co., Ltd., No. 688 Liuan Road, Liuerpu Economic Development Zone, Liaoyang City, Liaoning, China 11212.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 24565, 5/1/14.
	Lim Yong Nam, (a.k.a. Lin Rongnan, Steven Lim and Yong Nam Lim), YuJingHuaCheng Huaqiang South Road Futian, Shenzhen, China 518033; *and* Room 2613, NanGuangJieJia Building ShenNan Road, FuTian, Shenzhen, China 518033 (See alternate addresses under Singapore)	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	76 FR 67062, 10/31/11.
	Longtek Company, Ltd., a.k.a., the following one alias: Beijing Landuyt Feng Technology Co., Ltd. Room 1105, TianZuo International Center A, No, 12, Zhongguncun South Street, Haidan District, Beijing 100081, China	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	78 FR 75463, 12/12/13.
	Luo Jie, (a.k.a. Cherry, Ivy Luo and Jie Luo), Room 1007, Block C2, Galaxy Century Bldg., CaiTian Rd., FuTian District, Shenzhen, China; and Room 1702, Tower B, Honesty Building, Humen, Dongguan, Guangdong, China (See alternate addresses under Hong Kong)	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	76 FR 67062, 10/31/11.
	National Supercomputing Center Changsha (NSCC–CS), Changsha City, Hunan Province, China	For all items subject to the EAR. (See § 744.11 of the EAR).	Case-by-case basis ..	80 FR 8527, 2/18/15.
	National Supercomputing Center Guangzhou (NSCC–GZ), Sun Yat-Sen University, University City, Guangzhou, China	For all items subject to the EAR. (See § 744.11 of the EAR).	Case-by-case basis ..	80 FR 8527, 2/18/15.
	National Supercomputing Center Tianjin (NSCC–TJ), 7th Street, Binhai New Area, Tianjin, China	For all items subject to the EAR. (See § 744.11 of the EAR).	Case-by-case basis ..	80 FR 8527, 2/18/15.
	National University of Defense Technology (NUDT), Garden Road (Metro West), Changsha City, Kaifu District, Hunan Province, China	For all items subject to the EAR. (See § 744.11 of the EAR).	Case-by-case basis ..	80 FR 8527, 2/18/15.

Country	Entity	License requirement	License review policy	FEDERAL REGISTER citation
	NEL Electronics, (a.k.a., NEL Electronics Pte Ltd), 14K Block 2 YuJingHuaCheng Huaqiang South Road FuTian, Shenzhen, China 518033; *and* Room 2613, NanGuangJieJia Building ShenNan Road, FuTian, Shenzhen, China 518033 (See alternate address under Singapore)	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	76 FR 67062, 10/31/11.
	Ninehead Bird Semiconductor, RM 15, Jufu Ge, Caifu Bld, Caitian Road, Futian Qu, Shenzhen, Guangdong, 518033, China.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 40178, 6/21/16.
	Northwest Institute of Nuclear Technology in the Science Research (NINTF), Xi'an, Shanxi; *and* P.O. Box 69–12, Xi'an, Shaanxi Province 710024.	For all items subject to the EAR..	See § 744.2 of this part.	64 FR 28909, 5/28/99. 75 FR 78883, 12/17/10. 77 FR 58006, 9/19/12.
	Northwestern Polytechnical University, a.k.a., the following three aliases: —Northwestern Polytechnic University; —Northwest Polytechnic University; *and* —Northwest Polytechnical University. 127 Yonyi Xilu, Xi'an 71002 Shaanxi, China; *and* Youyi Xi Lu, Xi'an, Shaanxi, China; *and* No. 1 Bianjia Cun, Xi'an; *and* West Friendship Rd. 59, Xi'an; *and* 3 10 W Apt 3, Xi'an.	For all items subject to the EAR..	See § 744.3(d) of this part.	66 FR 24266, 5/14/01. 75 FR 78883, 12/17/10. 77 FR 58006, 9/19/12. 81 FR 64696, 9/20/16.
	Panda International Information Technology Company, Ltd., 7/F, B Tower, Yingwu Conference Center, No. 6. Huayuan Road, Haidian District, Beijing, China; *and* Rm 606 Block B, Beijing Agricultural Science Building, Shugang Garden Haidian Middle Rd, Beijing, China	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 36202, 6/26/14.
	Poly Technologies Inc., 11F Poly Plaza, 14 Dongzhimen Nandajie, Beijing China; *and* 27 Wanshoulu, Haidian district, Beijing, China	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 36202, 6/26/14.

Country	Entity	License requirement	License review policy	FEDERAL REGISTER citation
	PRC Lode Technology Company, a.k.a., the following four aliases: —Lode Technology Company; —Beijing Lode Technology Company, Ltd.; —Beijing Nuodian Keji Youxian Gongsi; *and* —Beijing Nuodian Technology. Room 8306 Kelun Building, 12A Guanghua Road, Chaoyang, Beijing 100020, China; *and* Room 801, Unit 1, Building 8 Caiman Street, Chaoyang Road, Beijing 100025, China; *and* Building 1–1, No. 67 Caiman Str., Chaoyang Road, Beijing 100123, China; *and* Room A407 Kelun Building, 12A Guanghua Road, Chaoyang, Beijing 100020, China; *and* Rm 602, 5/F, No. 106 NanHu Road, ChaoYang District, Beijing, China; *and* Suite 801, Unit 1, Building 8 Caiman Street Finance & Economics Center, Chaoyang Road, Chaoyang District, Beijing; *and* Suite 306, Lianhua Building No. 159 Tianzhou Road, Xuhui District, Shanghai 200233; *and* Suite 6B3, Building 15, No. 300 Tianlin Road, Xuhui District, Shanghai 200233; *and* Suite 1901, Unit 1, Block 8, District E, Ziwei Garden City, Chang'an Technological Garden, Xi'an, 710119; *and* Suite 2002, Unit 4, Building 1 Zhongda Junyue Jinsha Phase 3 No. 15 Jinxiang Road, Qingyang District, Chengdu, 610031; Suite 1506, Building 4, Dachengxiaoshi, No. 10 Qingjiang Zhong Road, Qingyang District, Chengdu 610072; *and* Suite 904, Building A6, Shunfeng Emerald Garden, No. 168 Zhaofeng Road, Shijing, Baiyun District, Guangzhou, 510410; *and* No. 1263 Airport Road, Baiyun District, Guangzhou; *and* Suite 201, Tower A, Building 14, Qianxihe Garden Center, Nanchang, 330002 (See alternate addresses under Hong Kong).	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 44683, 8/1/14. 81 FR 14958, 3/21/16.
	Qing'an International Trading Group, a.k.a., the following three aliases: —Qing'an International Trading Group Company; *and* —Qing'an Company Shenzhen Station; *and* —China Qing'an International Trading Group. No. 27 Xiaoyun Road, Chaoyang District, Beijing 100027, China; *and* Room 901, Qing An Building, No. 27, Xiaoyun Road, Chaoyang District, Beijing, China 100027, China.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 44683, 8/1/14.

Country	Entity	License requirement	License review policy	FEDERAL REGISTER citation
	Shandong Sheenrun Optics & Electronics Co., Ltd., a.k.a., the following two aliases: —China Sheenrun Optics and Electronics Co. Ltd.; *and* —Jinan Sheenrun Electronics Company Ltd. Room A312, Tower F1 Qilu Software Park, Hi-tech Zone, Jinan, China 250101.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	80 FR 22640, 4/23/15.
	Shanghai Academy of Spaceflight Technology (SAST), a.k.a., the following four aliases: —8th Research Academy of China Aerospace; —Shanghai Astronautics Industry Bureau; —Shanghai Bureau of Astronautics (SHBOA); *and* —Shanghai Bureau of Space. Shanghai, Spaceflight Tower, 222 Cao Xi Road, Shanghai, 200233:	For all items subject to the EAR.	See § 744.3 of this part.	64 FR 28909, 5/28/99. 75 FR 78877, 12/17/10. 81 FR 64696, 9/20/16.
	Shanghai Institute of Space Power Sources, a.k.a., the following three aliases: —811th Research Institute, 8th Academy, China Aerospace Science and Technology Corp. (CASC); —Shanghai Space Energy Research Institute; *and* —Shanghai Space Power Supply Research Institute. 388 Cang Wu Road, Shanghai; *and* Dongchuan Rd., 2965 Shanghai.	For all items subject to the EAR.	See § 744.3 of this part.	64 FR 28909, 5/28/99. 75 FR 78883, 12/17/10. 77 FR 58006, 9/19/12. 81 FR 64696, 9/20/16.
	Sharon Yang, No. 5, Jereh Road, Laishan District, Yantai Shandong Province, China.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 14958, 3/21/16.
	Sichuan University, No. 24 South Section 1, Yihuan Road, Chengdu, China, 610065; *and* No. 29 Jiuyanqiao Wangjiang Road, Chengdu, China, 610064; *and* People's South Road, Chengdu, China, 610041; *and* Shuangliu County, Chuanda Road, Chengdu, China, 610207.	For all items subject to the EAR..	Case-by-case basis.	77 FR 58006, 9/19/12.
	Sky Rise Technology Ltd., a.k.a., the following one alias: —Sky Rise Tech 4–4–2301 Xinyi Jiayuan, Chongwenmen, Dongcheng, Beijing, China (See also addresses under Hong Kong).	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	80 FR 69856, 11/12/15.

Country	Entity	License requirement	License review policy	FEDERAL REGISTER citation
	Southwest Research Institute of Electronics Technology, a.k.a., the following three aliases: —10th Research Institute of China Electronic Technology Group Corp (CETC); —CETC 10th Research Institute; *and* —Southwest Institute of Electronic Technology (SWIET); No. 6 Yong Xin Street, Chengdu; *and* No. 90 Babao Street, Chengdu; *and* 48 Chadianzi Street East, Jinniu District, Chengdu, 610036.	For all items subject to the EAR.	See § 744.3(d) of this part.	66 FR 24267, 5/14/01. 75 FR 78883, 12/17/10. 77 FR 58006, 9/19/12. 81 FR 64696, 9/20/16.
	Su Bin, a.k.a., the following two aliases: —Stephen Subin; *and* —Steve Su. Room 8306 Kelun Building, 12A Guanghua Road, Chaoyang, Beijing 100020, China; *and* Room 801, Unit 1, Building 8 Caiman Street, Chaoyang Road, Beijing 100025, China; *and* Building 1–1, No. 67 Caiman Str., Chaoyang Road, Beijing 100123, China; *and* Room A407 Kelun Building, 12A Guanghua Road, Chaoyang, Beijing 100020, China; *and* Rm 602, 5/F, No. 106 NanHu road, ChaoYang District, Beijing, China (See alternate addresses under Hong Kong).	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 44683, 8/1/14.
	TanWei, a.k.a., the following one alias: —Terry Tan. No. 5, Jereh Road, Laishan District, Yantai Shandong Province, China.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 14958, 3/21/16.
	Tenfine Ltd., a.k.a., the following two aliases: —Beijing Beihang Assets Management Co. Ltd.; *and* —Tenfine Limited Company. No 37 Xue Yuan Lu, Haidian, Beijing, China; *and* 37 Xue Yuan Road, Beijing, China; *and* Room 401, 4f Shining Tower, 35 Xue Yuan Lu, Haidian District, Beijing, China; *and* Room 402b, 4F Shining Tower, 35 Xue Yuan Lu, Haidian, Beijing, China; *and* Xueyan Road, Haidain District, Beijing City, 35th Ning Building, Room 402a	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	78 FR 75463, 12/12/13.
	TiMi Technologies Co., Ltd., a.k.a., the following two aliases: —TiMi Technology Co. Ltd —TiMi Tech F/10, A-Tower, Nongke Building, 11/Shu Guang Hua Yuan Zhong Lu, Haidian District, Beijing, China, 100097; *and* Nanhai Avenue, Nanshan District, 518054, Shenzhen, China (See also addresses under Hong Kong)	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	80 FR 69856, 11/12/15.
	Toptics, Inc., Chuangye Building 7/1F, 1197 Bin'An Road, Binjiang, Hangzhou, Zhejiang 310052, China	For all items subject to the EAR. (See 744.11 of the EAR).	Presumption of denial	75 FR 36519, 6/28/10.

Country	Entity	License requirement	License review policy	FEDERAL REGISTER citation
	University of Electronic Science and Technology of China, No. 4, 2nd Section, North Jianshe Road, Chengdu, 610054.	For all items subject to the EAR.	Case-by-case basis.	77 FR 58006, 9/19/12.
	Wang Wei, a.k.a., the following one alias: —Jack Wang 4–4–2301 Xinyi Jiayuan, Chongwenmen, Dongcheng, Beijing, China; *and* F/10, A-Tower, Nongke Building, 11/Shu Guang Hua Yuan Zhong Lu, Haidian District, Beijing, China, 100097 (See also addresses under Hong Kong)	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	80 FR 69856, 11/12/15.
	Wong Yung Fai, a.k.a., Tonny Wong, Unit 12B, Block 11, East Pacific Garden, Xiang Lin Road, Futian District, Shenzhen, China	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	75 FR 1701, 1/13/10.
	Xi'an Research Institute of Navigation Technology, a.k.a., the following two aliases: —20th Research Institute of China Electronic Technology Group Corp (CETC); *and* —CETC 20th Research Institute 1 Baisha Rd., Xi'an, Shaanxi.	For all items subject to the EAR.	See § 744.3(d) of this part.	66 FR 24267, 5/14/01. 75 FR 78883, 12/17/10. 77 FR 58006, 9/19/12. 81 FR 64696, 9/20/16.
	Xi'an Xiangyu Aviation Technology Group, a.k.a., Xi'an Xiangyu Aviation Technology Company, 16 Gaoxin 4th Road, Xian High Tech Industrial Development Zone, Xian, China	For all items subject to the EAR. (See 744.11 of the EAR).	Presumption of denial	75 FR 36519, 6/28/10.
	Xian Semi Electronic Co., Ltd., a.k.a., the following three aliases: —Semi Electronics Co.; —Semi Electronics International Co. Limited; and —Exodus Microelectronics Co., Ltd. Room 24F, Duhui 100 Building Block B, ZhongHang Road, Futian District, Shenzhen City GuangDong Province, China; Room 1810 Lang Chen Building, No. 13 Gaoxin Road, High Technology Development Zone, Xian, China; Room 24F–27E Duhui B, Zhonghang Road, Futian District, Shenzhen City, China; and Room 1802 Xigema Building No. 25, Gaoxin Road, High-Tech Development Zone, Xian, China. (See alternate address under Hong Kong).	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	76 FR 71869, 11/21/11.
	Xiangdong Machinery Factory, within the China Aerospace Science and Industry Corp's (CASIC) Third Academy, a.k.a., the following two aliases: —China Haiying Electromechanical Technology Academy; *and* —China Haiying Science & Technology Corporation (a.k.a., the following four aliases: 239 Factory; Beijing Xinghang Electromechanical Equipment Factory; Beijing Hangxing Machinery Manufacturing Corporation; *and* Hangxing Machine Building Company).	For all items subject to the EAR..	See § 744.3(d) of this part.	66 FR 24267, 5/14/01. 75 FR 78883, 12/17/10. 77 FR 58006, 9/19/12.
	Xinghe Xingyong Carbon Co., Ltd., Xicheng Wai, Chengguan Town, Xinghe County, Inner Mongolia, China.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 24565, 5/1/14.

Country	Entity	License requirement	License review policy	FEDERAL REGISTER citation
	Yantai Jereh Oilfield Services Group Co., Ltd., No. 5, Jereh Road, Laishan District, Yantai Shandong Province, China.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 14958, 3/21/16.
	Yin Zhao, No. 2A Zhonghuan South Road, Wangjing, Chaoyang District, Beijing, China, 100102; *and* Room 302 Office, Bldg 11, No. 4, Anningzhuang Rd, Beijing, China, 100085.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	80 FR 44849, 7/28/15.
	Yiwu Tianying Optical Instrument Company, Room 301, 1 Unit, 18 Building, Houcheng Yi Qu, Jiangdong Street, Yiwu City, Zhejiang, China, 322000.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	80 FR 44849, 7/28/15.
	Zhongxing Telecommunications Equipment (ZTE) Corporation, ZTE Plaza, Keji Road South, Hi-Tech Industrial Park, Nanshan District, Shenzen, China	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 12006, 3/8/16.
	Zhou Zhenyong, (a.k.a., Benny Zhou and Zhenyong Zhou), Room 1007, Block C2, Galaxy Century Bldg., CaiTian Rd., FuTian District, Shenzhen, China; and Room 1702, Tower B, Honesty Building, Humen, Dongguan, Guangdong, China (See alternate addresses under Hong Kong)	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	76 FR 67062, 10/31/11.
	Zhu Kuibao, No. 51 Yongding Rd., Haidian District, Beijing, China; *and* No. 37 Xueyuan Road, Haidian District, Beijing, China.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 24565, 5/1/14.
	ZTE Kangxun Telecommunications Ltd., 2/3 Floor, Suite A, Zte Communication Mansion Keji (S) Road, Hi-New Shenzhen, 518057 China	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 12006, 3/8/16.
CRIMEA REGION OF UKRAINE.	Aktsionernoe Obschestvo 'Yaltinskaya Kinodstudiya,' a.k.a., the following eight aliases: —CJSC Yalta-Film; —Film Studio Yalta-Film; —Joint Stock Company Yalta Film Studio; —JSC Yalta Film Studio; —Kinostudiya Yalta-Film; —Oao Yaltinskaya Kinostudiya; —Yalta Film Studio; *and* —Yalta Film Studios Ulitsa Mukhina, Building 3, Yalta, Crimea 298063, Ukraine; *and* Sevastopolskaya 4, Yalta, Crimea, Ukraine.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	80 FR 80646, 12/28/15.
	Chernomorneftegaz,a.k.a., the following two aliases: —Chornomornaftogaz, *and* —NJSC Chornomornaftogaz. Kirova/per. Sovnarkomovskaya, 52/1, Simferopol, Crimea, 95000, Ukraine. (See Ukraine).	For all items subject to the EAR (See § 744.11 of the EAR).	Presumption of denial	79 FR 21396, 4/16/14.

Country	Entity	License requirement	License review policy	FEDERAL REGISTER citation
	Crimean Enterprise Azov Distillery Plant, a.k.a., the following five aliases: —Azovsky Likerogorilchany Zavod, Krymske Respublikanske Pidpryemstvo; —Azovsky Likerovo-Dochny Zavod; —Crimean Republican Enterprise Azov Distillery; —Crimean Republican Enterprise Azovsky Likerovodochny Zavod; *and* —Krymske Respublikanske Pidpryemstvo Azovsky Likerogorilchany Zavod Bud. 40 vul. Zaliznychna, Smt Azovske, Dzhankoisky R–N, Crimea 96178, Ukraine; *and* 40 Railway St., Azov, Dzhankoy District 96178, Ukraine; *and* 40 Zeleznodorozhnaya str., Azov, Jankoysky District 96178, Ukraine.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	80 FR 80646, 12/28/15.
	Crimean Ports, a.k.a., the following three aliases: —State Unitary Enterprise of the Republic of Crimea 'Crimean Ports'; —Sue RC 'KMP'; *and* —Sue RK 'Crimean Ports' 28 Kirov Street, Kerch, Crimea Region of Ukraine 98312.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 94968, 12/27/16.
	Crimean Railway, a.k.a., the following three aliases: —Federal State Unitary Enterprise 'Crimean Railway'; —Krymzhd; *and* —The Railways of Crimea 34 Pavlenko Street, Simferopol, Crimea Region of Ukraine 95006.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 94968, 12/27/16.
	FAU 'Glavgosekspertiza Rossii', a.k.a., the following three aliases: —Federal Autonomous Institution 'Main Directorate of State Examination'; —General Board of State Expert Review; *and* —Glavgosekspertiza. 13 Demidova Street, Sevastopol, Crimea, Ukraine; *and* 10 Vokzalnaya Street, Sevastopol, Crimea, Ukraine (See alternate address under Russia).	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 61601, 9/7/16.
	Federal SUE Shipyard 'Morye', a.k.a., the following four aliases: —Federal State Unitary Enterprise SZ Morye; —FSUE SZ 'Morye'; —Morye Shipyard; *and* —More Shipyard. 1 Desantnikov Street, Feodosia, Crimea 98176, Ukraine	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 61601, 9/7/16.

Country	Entity	License requirement	License review policy	FEDERAL REGISTER citation
	Feodosiya Enterprise, a.k.a., the following four aliases: —Feodosia Oil Products Supply Co.; *and* —Feodosiya Enterprise on Providing Oil Products; *and* —Feodosiyske Company for the Oil; *and* —Theodosiya Oil Terminal. Feodosiya, Geologicheskaya str. 2, Crimea 98107, Ukraine; *and* Feodosia, Str. Geological 2, Crimea 98107, Ukraine (See alternate address under Ukraine)	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 42455, 7/22/14.
	OAO 'Uranis-Radiosistemy', a.k.a., the following three aliases: —OJSC 'Uranis Radio Systems'; —OJSC Uranis-Radiosistemy; *and* —Uranis-Radiosistemy OAO. 33 G, Vakulenchuk Street, Sevastopol, Crimea 99053, Ukraine.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 61601, 9/7/16.
	OAO Ship Repair Center 'Zvezdochka', a.k.a., the following four aliases: — 'Zvezdochka' Shipyard; —AO Ship Repair Center 'Zvezdochka'; —Joint Stock Company Ship Repair Center 'Zvezdochka;' *and* —Ship Repair Center Zvezdochka. 13 Geroyev Sevastopolya Street, Sevastopol, Crimea 99001, Ukraine (See alternate address in Russia).	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 61601, 9/7/16.
	OOO Shipyard 'Zaliv' (f.k.a., AO Shipyard 'Zaliv'; JSC Shipyard 'Zaliv;' JSC Zaliv Shipyard; *and* OJSC ZALIV SHIPYARD), a.k.a., the following two aliases: —LLC Shipyard 'Zaliv'; *and* —Zaliv Shipyard LLC. 4 Tankistov Street, Kerch, Crimea 98310, Ukraine.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 61601, 9/7/16.
	Resort Nizhnyaya Oreanda (f.k.a., Federalnoe Gosudarstvennoe Byudzhetnoe Uchrezhdenie Sanatori Nizhnyaya Oreanda Upravleniya), a.k.a., the following three aliases: —Federalnoe Gosudarstvennoe Byudzhetnoe Uchrezhdenie Sanatori Nizhnyaya Oreanda Upravleniya Delami Prezidenta Rossiskoi Fe; —FGBU Sanatori Nizhnyaya Oreanda; *and* —Sanatorium Nizhnyaya Oreanda Pgt Oreanda, Dom 12, Yalta, Crimea 298658, Ukraine; *and* Resort Nizhnyaya Oreanda, Oreanda, Yalta 08655, Crimea; Oreanda—12, Yalta 298658, Crimea.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	80 FR 80646, 12/28/15.
	SMT–K, a.k.a., the following six aliases: —Krym SMT OOO LLC; —LLC CMT Crimea; —OOO 'CMT–K'; —OOO 'SMT–K'; —SMT-Crimea; *and* —Sovmortrans-Crimea. ul. Zoi Zhiltsovoy, d. 15, office 51, Simferopol, Crimea, Ukraine. (See Alternate address under Russia)	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 61601, 9/7/16.

Country	Entity	License requirement	License review policy	FEDERAL REGISTER citation
	State Concern National Production and Agricultural Association Massandra, a.k.a., the following four aliases: —Massandra National Industrial Agrarian Association of Wine Industry; —Massandra State Concern, National Production and Agrarian Union, OJSC; —Nacionalnoye Proiz-Vodstvenno Agrarnoye Obyedinenye Massandra; *and* —State Concern National Association of Producers Massandra 6, str. Mira, Massandra, Yalta 98600, Ukraine; *and* 6, Mira str., Massandra, Yalta, Crimea 98650, Ukraine; *and* Mira str, h. 6, Massandra, Yalta, Crimea 98600, Ukraine; *and* 6, Myra st., Massandra, Crimea 98650, Ukraine.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	80 FR 80646, 12/28/15.
	State Enterprise Evpatoria Sea Commercial Port, a.k.a., the following eight aliases: —Port of Evpatoria; —Port of Yevpatoria; —Seaport of Yevpatoriya; —Yevpatoria Commercial Seaport; —Yevpatoria Merchant Sea Port; —Yevpatoria Sea Port; —Yevpatoriya Commercial Sea Port; *and* —Yevpatoriya Sea Port Mariners Square 1, Evpatoria, Crimea 97416, Ukraine; *and* 1, Moryakov Sq, Yevpatoriya, Crimea 97408, Ukraine; *and* 1 Moryakov Sq., Yevpatoria, Crimea 97416, Ukraine; *and* 1 Moryakov Sq, Yevpatoriya, Crimea 97416, Ukraine.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	80 FR 52968, 9/2/15.
	State Enterprise Factory of Sparkling Wine Novy Svet, a.k.a., the following six aliases: —Derzhavne Pidpryemstvo Zavod Shampanskykh Vyn Novy Svit; —Gosudarstvenoye Predpriyatiye Zavod Shampanskykh Vin Novy Svet; —Novy Svet Winery; —Novy Svet Winery State Enterprise; —State Enterprise Factory of Sparkling Wines New World; *and* —Zavod Shampanskykh Vyn Novy Svit, DP 1 Shaliapin Street, Novy Svet Village, Sudak, Crimea 98032, Ukraine; *and* Bud. 1 vul. Shalyapina Smt, Novy Svit, Sudak, Crimea 98032, Ukraine; *and* 1 Shalyapina str. Novy Svet, Sudak 98032, Ukraine.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	80 FR 80646, 12/28/15.

Country	Entity	License requirement	License review policy	FEDERAL REGISTER citation
	State Enterprise Feodosia Sea Trading Port, a.k.a., the following five aliases: —Port of Feodosia; —Seaport of Feodosiya; —Theodosia Commercial Seaport; —Theodosia Merchant Sea Port; *and* —Theodosia Sea Port 14 Gorky Street, Theodosia 98100, Ukraine,; *and* 14, Gorky Str., Feodosiya, Crimea 98100, Ukraine; *and* Gorky Street 11, Feodosia, Crimea 98100, Ukraine.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	80 FR 52968, 9/2/15.
	State Enterprise Kerch Sea Commercial Port, a.k.a., the following six aliases: —Kerch Commercial Seaport; —Kerch Merchant Sea Port; —Kerch Sea Port; —Port of Kerch; —Seaport of Kerch; *and* —State Enterprise Kerch Commercial Sea Port Kirova Street 28, Kerch, Crimea 98312, Ukraine; *and* 28 Kirova Str., Kerch, Crimea 98312, Ukraine; *and* 28, Kirov Str., Kerch, Crimea 98312, Ukraine; *and* Ul. Kirov, 28, Kerch, Crimea 98312, Ukraine; *and* ul Kirova 28, Kerch 98312, Ukraine.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	80 FR 52968, 9/2/15.
	State Enterprise Magarach of the National Institute of Wine, a.k.a., the following five aliases: —Agrofirma Magarach Natsionalnogo Instytutu Vynogradu I Vyna Magarach, DP; —Derzhavne Pidpryemstvo Agrofirma Magarach Natsionalnogo Instytutu Vynogradu I Vyna Magarach; —Gosudarstvenoye Predpriyatiye Agro-Firma Magarach Nacionalnogo Instituta Vinograda I Vina Magarach; —Magarach Agricultural Company Of National Institute Of Wine And Grapes Magarach; *and* —State Enterprise Agricultural Company Magarach National Institute of Vine and Wine Magarach Bud. 9 vul. Chapaeva, S.Viline, Bakhchysaraisky R–N, Crimea 98433, Ukraine; *and* 9 Chapayeva str., Vilino, Bakhchisaray Region, Crimea 98433, *and* Ukraine; *and* 9 Chapayeva str., Vilino, Bakhchisarayski district 98433, Ukraine; *and* 9, Chapaeva Str., Vilino, Bakhchisaray Region, Crimea 98433, Ukraine.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	80 FR 80646, 12/28/15.

Country	Entity	License requirement	License review policy	FEDERAL REGISTER citation
	State Enterprise Sevastopol Sea Trading Port, a.k.a., the following seven aliases: —Port of Sevastopol; —Seaport of Sevastopol; —Sevastopol Commercial Seaport; —Sevastopol Merchant Sea Port; —Sevastopol Sea Port; —Sevastopol Sea Trade Port; *and* —State Enterprise Sevastopol Commercial Seaport 3 Place Nakhimova, Sevastopol 99011, Ukraine; *and* 5, Nakhimova square, Sevastopol, Crimea 99011, Ukraine; *and* Nahimova Square 5, Sevastopol, Crimea 99011, Ukraine.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	80 FR 52968, 9/2/15.
	State Enterprise Universal-Avia, a.k.a., the following six aliases: —Crimean State Aviation Enterprise Universal-Avia; —Gosudarstvennoe Unitarnoe Predpriyatie Respubliki Krym Universal; —Gosudarstvennoe Unitarnoe Predpriyatie Respubliki Krym Universal-Avia; —Gosudarstvenoye Predpriyatiye Universal-Avia; —Universal-Avia, Crimea State Aviation Enterprise; *and* —Universal-Avia, Gup RK 5, Aeroflotskaya Street, Simferopol, Crimea 95024, Ukraine.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	80 FR 80646, 12/28/15.
	State Enterprise Yalta Sea Trading Port, a.k.a., the following five aliases: —Port of Yalta; —Seaport of Yalta; —Yalta Commercial Seaport; —Yalta Merchant Sea Port; *and* —Yalta Sea Port Roosevelt Street 3, Yalta, Crimea 98600, Ukraine; *and* 5, Roosevelt Str., Yalta, Crimea 98600, Ukraine; *and* 5 Roosevelt Street, Yalta, Crimea 98600, Ukraine.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	80 FR 52968, 9/2/15.
	State Shipping Company Kerch Sea Ferry, a.k.a., the following one alias: —State Ferry Enterprise Kerch Ferry. Tselimbernaya Street 16, Kerch, Crimea, 98307, Ukraine; *and* 16 Tselibernaya Street, Kerch, Crimea 98307, Ukraine	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	80 FR 52968, 9/2/15.
	Sue RC 'Feodosia Optical Plant', a.k.a., the following two aliases: —Feodosia State Optical Plant; *and* —State Optical Plant—Feodosia. Feodosia State Optical Plant, 11 Moskovskaya Street, Feodosia, Crimea 98100, Ukraine.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 61601, 9/7/16.
CYPRUS	Didessar Limited, Archbishop Makarios III Ave, Nicosia, Cyprus.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	IPP Oil Products (Cyprus) Limited, 12 Esperidon Street, 4th Floor, Nicosia 1087, Cyprus.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	80 FR 52968, 9/2/15.

Country	Entity	License requirement	License review policy	FEDERAL REGISTER citation
	Leondica Holding Ltd, 25 Kolonakiou Str, Za Vos Kolonakioy Center, Limassol, Cyprus.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Niki Panteli Kyriakou, 91, Evgeniou Voulgareous, Limassol 4153, Cyprus. (See alternate address under United Kingdom)	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	76 FR 50410, 8/15/11.
	Rosneft Trade Limited, f.k.a., TNK Trade Limited. Elenion Building 5 Themistokli Dervi, 2nd floor, Lefkosia, Nicosia 1066, Cyprus.	For all items subject to the EAR when used in projects specified in § 746.5 of the EAR.	See § 746.5(b) of the EAR.	80 FR 52968, 9/2/15.
	Southport Management Services Limited, Nicosia, Cyprus. (See also address under United Kingdom)	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	80 FR 52968, 9/2/15.
	Stroytransgaz Holding, a.k.a., the following four aliases: —STG Holding Limited, *and* —STG Holdings Limited, *and* —Stroytransgaz Holding Limited, *and* —STGH. 33 Stasinou Street, Office 2 2003, Nicosia Strovolos, Cyprus.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 24561, 5/1/14.
	White Seal Holdings Limited, 115 Spyrou Kyprianou Avenue, Limassol 3077, Cyprus.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	80 FR 80646, 12/28/15.
ECUADOR	Corporacion Nacional de Telecommunicaciones (CNT), Avenida Gaspar de Villaroel Quito, Ecuador; *and* Avda. Veintimilla, Suite 1149 y Amazonas, Edificio Estudio Z, Quito, Ecuador	For items classified under Export Control Classification Numbers (ECCNs) 5A002, 5A004 or 5D002. (See § 744.11 of the EAR).	Case-by-case review	80 FR 31836, 6/4/15.
EGYPT	AL-AMIR ELECTRONICS, 46 Falaki St. BabLouk Area, Cairo, Egypt	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	77 FR 24590, 4/25/12.
ESTONIA	Andrey Shevlyakov, Kalevipoja 12A, 13625 Tallinn, Estonia	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	77 FR 61249, 10/9/12. 78 FR 75463, 12/12/13.
	Yaxart OU, Kalevipoja 12A, 13625 Tallinn, Estonia.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
FINLAND	Airfix Aviation Oy, Tullimiehentie 4–6, Vantaa 01530, Finland. (See also address under Switzerland)	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	80 FR 52968, 9/2/15.
	Aleksei Kolominen, 20 Nuolitie, Vantaa, Finland 01740.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Andrey Kirievski, Lastaajanvayla 22, Lappeenranta, Finland 53420.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Eliron Logistics Oy, Vanha Porvoontie 229, Vantaa, Finland 01380.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Irina Pavlova, Lastaajanvayla 22, Lappeenranta, Finland 53420.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.

Country	Entity	License requirement	License review policy	FEDERAL REGISTER citation
	Kuusiaaren Sarnetex & Ter Oy, Kaasuntintie 8A, Helsinski, Finland 00770.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Lemon LLC Oy, Peltoinlahdentie 19, FI–54800 Savitaipale.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Olkebor Oy, 231B Vanha Porvoontie, Vantaa, Finland 01380.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	77 FR 61256, 10/9/12. 78 FR 3319, 1/16/13. 81 FR 40178, 6/21/16.
	Russian Cargo Oy, 22 Lastaajanvayla, Lappeenranta, Finland 53420.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Set Petrochemicals Oy, Ukonvaaja 2 A, Espoo 02130, Finland.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	80 FR 52968, 9/2/15.
	SM Way Oy, Lastaajanvayla 22, Lappeenranta, Finland 53420.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Southeast Trading Oy, a.k.a., the following one alias: —Southeast Trading LTD. Espoo, Finland; *and* Kannelkatu 8, Lappeenranta 53100, Finland; *and* PL 148, Lappeenranta 53101, Finland (See also addresses under Romania and Russia)	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	80 FR 52968, 9/2/15.
	Transsphere Oy, a.k.a., the following two aliases: —Transsphere Limited Oy; *and* —Transsphere Oy Ltd., 20 Nuolitie, Vantaa, Finland 01740.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Vitaliy Dankov, Vanha Porvoontie 231B, Vantaa, Finland 01380.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
FRANCE	Aerotechnic France SAS, 8 Rue de la Bruyere, 31120 Pinsaguel, France	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	76 FR 37633, 6/28/11.
	IKCO France, 147 Avenue Charles de Gaulle, 92200, Neuilly-Sur-Seine, France	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	77 FR 24590, 4/25/12.
	Luc Teuly, 8 Rue de la Bruyere, 31120 Pinsaguel, France	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	76 FR 37633, 6/28/11.
	Philippe Sanchez, 8 Rue de la Bruyere, 31120 Pinsaguel, France	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	76 FR 37633, 6/28/11.
GERMANY	Albrecht Import-Export, a.k.a., the following one alias: —Elena Albrecht Import-Export, Gmunder Str. 25, Heubach, Germany 73540.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Alexander Brovarenko, Fasanenweg 9L, Kelsterbach, Germany D–65451; *and* Fasanenweg 9, Gate 23, Kelsterbach, Germany 65451; *and* Fasanenweg 7, Kelsterbach, Germany D–65451; *and* IM Taubengrund 35 Gate 1–2, Kelsterbach, Germany 65451.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.

Country	Entity	License requirement	License review policy	FEDERAL REGISTER citation
	Christof Schneider, Margaretenweg #10, 42929 Wermelskirchen, Germany; *and* P.O Box 501168, D–42904, Wermelskirchen, Germany; *and* Neuenhaus 96, 42929, Wermelskirchen, Germany	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	74 FR 35797 7/21/09. 78 FR 18811, 3/28/13.
	Djamshid Nezhad, a.k.a. the following alias: —Nezhad Djamshid. Poppentrade 25, D–24148 Kiel, Germany; and Moesemann 2, 24144, Hamburg, Germany.	Presumption of denial	For all items subject to the EAR. (See § 744.11 of the EAR).	73 FR 54504, 9/22/08. 77 FR 24590, 4/25/12.
	Elena Albrecht, a.k.a., the following one alias: —Elena Grinenko, Gmunder Str. 25, Heubach, Germany 73540.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Hans Werner Schneider, Bertha von Suttner Weg #1, 42929 Wermelskirchen, Germany	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	74 FR 35799, 7/21/09.
	IKCO Trading GmbH, Schadowplatz 5, 40212 Dusseldorf, Germany; and Kaiserswerther Str. 117, 40474, Düsseldorf, Germany	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	73 FR 54504, 9/22/08. 77 FR 24590, 4/25/12.
	Industrio GmbH, Dreichlinger Street 79, Neumarkt, 92318 Germany.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 14958, 3/21/16.
	Manufacturers Equipment Organization (MEO), a.k.a. the following one alias: -MEO GMBH P.O Box 501168, D–42904, Wermelskirchen, Germany; *and* Neuenhaus 96, 42929, Wermelskirchen, Germany	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	78 FR 18811, 3/28/13.
	Martin Hess, Dreichlinger Street 79, Neumarkt, 92318 Germany.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 14958, 3/21/16.
	Nezhad Enterprise Company, a.k.a. the following three aliases: —Nezhad Co.; —Nezhad Enterprise; and —Nezhad Trading Poppentrade 25, D–24148 Kiel, Germany; and Moesemann 2, 24144, Hamburg, Germany.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	73 FR 54504, 9/22/08. 77 FR 24590, 4/25/12.
	Peter Duenker a.k.a., the following alias: —Peter Dunker. Dreichlinger Street 79, Neumarkt, 92318 Germany.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 14958, 3/21/16.
	Russ Cargo Service GMBH, Fasanenweg 9L, Kelsterbach, Germany D–65451; *and* Fasanenweg 9, Gate 23, Kelsterbach, Germany 65451; *and* Fasanenweg 7, Kelsterbach, Germany D–65451; *and* IM Taubengrund 35 Gate 1–2, Kelsterbach, Germany 65451.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Schneider GMBH, Thomas Mann Str. 35–37, 42929 Wermelskirchen, Germany; and P.O. Box 1523, Wermelskirchen, 42908 DE; and Thomas Mann Str., 35–37, P.O. Box 1523, Wermelskirchen, 42908 DE	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	74 FR 35799, 7/21/09.
	Sergey Grinenko, a.k.a., the following one alias: —Sergey Albrecht, Gmunder Str. 25, Heubach, Germany 73540.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.

Country	Entity	License requirement	License review policy	FEDERAL REGISTER citation
	Wilhelm "Bill" Holler, Dreichlinger Street 79, Neumarkt, 92318 Germany.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 14958, 3/21/16.
GREECE	Aeolian Airlines, 551 Mesogeion Ave, Agia Paraskevi, 15343A, Athens, Greece; *and*72 Vouliagmenis Ave, Glyfada 16675, Athens, Greece; *and*Blg Mtb 1/E 74, Athens, Greece; *and* 58 Vouliagmenis Ave, Voula 16673, Athens, Greece;(See alternate addresses under Turkey)	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	78 FR 75463, 12/12/13.
	Aerospace One, S.A., 24 Andrea Koumpi Str. Markopoulo19003 Attica, Greece.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 56003, 9/18/14.
	Sergei (Sergi) Ivanovich Tomchani, a.k.a., Sergey Ivanovich Tomchani, 58, Vouliagmenis Ave Voula, 16673, Athens, Greece (See alternate addresses under Ukraine and United Kingdom)	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	76 FR 50410, 8/15/11.
	Seyyed Abdolreza Mousavi, 551 Mesogeion Ave, Agia Paraskevi, 15343A, Athens, Greece; (See alternate address under Turkey)	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	78 FR 75463, 12/12/13.
	Sky Wings Airlines SA, 58, Vouliagmenis Ave Voula, 16673, Athens, Greece	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	76 FR 50410, 8/15/11.
	Socrates Vasilakis, 58, Vouliagmenis Ave Voula, 16673, Athens, Greece	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	76 FR 50410, 8/15/11.
	Top Electronics Components S.A., 66 Alkminis & Aristovoulov Str, Kato Petralona, Athens, Greece 11853.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Veteran Avia LLC a.k.a., the following alias: —Veteran Airline. 24, A. Koumbi Street, Markopoulo 190 03, Attika, Greece (See also addresses under Armenia, India, Pakistan, and U.K.)	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 56003, 9/18/14. 81 FR 8829, 2/23/16.
HONG KONG	32Group China Ltd., Room 1905, 19/F, Nam Wo Hong Bldg., 148 Wing Lok Street, Sheung Wang, Hong Kong; *and* Room 1119, 11/F, Block B, Yau Tong Industrial City, 17 Ko Fai Road, Yau Tong, Kowloon, Hong Kong	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	80 FR 69856, 11/12/15.
	ACTeam Logistics Ltd., Unit B1–B3, 21/F, Block B, Kong Nam Industrial Building, 603–609 Castle Peak Road, Tsuen Wan, N.T., Hong Kong	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	75 FR 7359, 2/19/10.
	Action Global, (a.k.a., Action Global Co., Limited), C/O Win Sino Flat 12, 9/F, PO Hong Centre, 2 Wang Tung Street, Kowloon Bay, KLN, Hong Kong; *and* Flat/RM 1510A, 15/F Ho King COMM Ctr, 2–16 Fa Yuen Street, Mongkok KL, Hong Kong (See alternate address under Singapore)	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	76 FR 67062, 10/31/11.
	Alpha Lam, Room 1041 Pacific Trade Center No. 2 Kai Hing Road, Kowloon Bay, Hong Kong (See alternate address under China).	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 32445, 6/5/14.

Country	Entity	License requirement	License review policy	FEDERAL REGISTER citation
	Amaze International, Flat/Rm D, 11/F 8 Hart Avenue 8–10 Hart Avenue, Tsim Sha Tsui KL, Hong Kong (See alternate address under Singapore)	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	76 FR 67062, 10/31/11.
	Antony Emmanuel, No: 3 & 4; 12F Commercial VIP Building, 112–116 Canton Rd., Tsim Sha Tsui, Hong Kong	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	73 FR 54505, 9/22/08, 74 FR 11474, 3/18/09.
	Anvik Technologies Sdn. Bhd., a.k.a., the following eight aliases: Anvik Technologies; Cason Technologies; Henan Electronics; Hixton Technologies; Hudson Technologies, Ltd.; Hudson Engineering (Hong Kong) Ltd.; Madison Engineering Ltd.;*and* Montana Advanced Engineering. Level 19, Two International Finance Centre, 8 Finance Street, Central, Hong Kong (See alternate addresses under Iran and Malaysia)	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	78 FR 75463, 12/12/13.
	Babak Jafarpour, a.k.a., the following five aliases: Bob Jefferson;-Peter Jay; Sam Lee; Samson Lee; *and* David Lee. Unit 501, 5/F, Global Gateway, 168 Yeung HK Road, Tsuen Wan, Hong Kong; *and* 9/F, Henan Building, 19 Luard Road, Wanchai, Hong Kong; *and* Level 19, Two International Finance Centre, 8 Finance Street, Central, Hong Kong (See alternate addresses under Iran and Malaysia)	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	78 FR 75463, 12/12/13.
	Bako Cheung, Unit 803, Fourseas Building, 208–212 Nathan Road, Kowloon, Hong Kong; *and* Room 803, Fourseas Bldg 208–212 Nathan Rd, Kowloon, Hong Kong.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 56003, 9/18/14.
	Beijing Lion Heart International Trading Company, a.k.a., the following one alias: —Wei Lai Xi Tong Ltd. Room 1318–20, 13F, Hollywood Plaza, 610 Nathan Road, Mongkok Kowloon, Hong Kong (See also address under China).	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 56003, 9/18/14.
	Bing Lu, Room 804 Sino Center, 582–592 Sino Center Road, Hong Kong.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 32445, 6/5/14.
	Biznest, LTD, Room 927 9/F Far East Consortium Building, 121 Des Voeux Road C, Central District, Hong Kong; *and* 4/F, Hong Kong Trade Centre, 161–167 Des Voeux Road, Central, Hong Kong	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	76 FR 44259, 7/25/11. 80 FR 69856, 11/12/15.
	BVI Electronics, G/F Far East FAC Building No. 334–336 Kwun Tong road, Kwun Ton Kowloon, Hong Kong (See alternate address under China).	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 32445, 6/5/14.
	Caprice Group Ltd., Room 1119, 11/F, Block B1, Yau Tong Industrial City, 17 Ko Fai Road, Yau Tong, Kowloon, Hong Kong; *and* Unit B1, G/F Pioneer Building, 213 Wai Yip St., Kwun Tong, Kowloon, Hong Kong; *and* Unit A, G/F, Pioneer Building, 213 Wai Yip St., Kwun Tong, Kowloon, Hong Kong	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	80 FR 69856, 11/12/15.

Country	Entity	License requirement	License review policy	FEDERAL REGISTER citation
	Centre Bright Electronics Company Limited, Unit 7A, Nathan Commercial Building 430–436 Nathan Road, Kowloon, Hong Kong; and Room D, Block 1, 6/F International Industrial Centre, 2–8 Kwei Tei Street, Shatin New Territories, Hong Kong	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	75 FR 1701, 1/13/10.
	Channel Rich Electronics Company Limited, Unit 803, Fourseas Building, 208–212 Nathan Road, Kowloon, Hong Kong; *and* Room 803, Fourseas Bldg 208–212 Nathan Rd, Kowloon, Hong Kong.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 56003, 9/18/14.
	Chitron Electronics Company Ltd, a.k.a., Chi-Chuang Electronics Company Ltd (Chitron-Shenzhen), 6 Shing Yip St. Prosperity Plaza 26/F, Suite #06, Kwun Tong, Kowloon, Hong Kong (See alternate address under China)	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	75 FR 1701, 1/13/10.
	Cho-Man Wong, Room 2608, Technology Plaza 29–35 Sha Tsui Road Tsuen Wan, Hong Kong; *and* Unit 803, Fourseas Building, 208–212 Nathan Road, Kowloon, Hong Kong; *and* Room 803, Fourseas Bldg 208–212 Nathan Rd, Kowloon, Hong Kong.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	76 FR 63184, 10/12/11. 79 FR 56003, 9/18/14.
	Comsum Technologies (Group) Ltd., Room 1005, 10/F Carnarvon Plaza, 20 Carnarvon Road, TST, Kowloon, Hong Kong (See alternate address under China)	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	78 FR 75463, 12/12/13.
	Corezing International, (a.k.a., CoreZing Electronics, Corezing International Group Company, Corezing International Pte Ltd, Corezing Technology Pte Ltd and Core Zing), G/F, No. 89, Fuyan Street, Kwun Tong, Hong Kong; *and* Flat 12, 9F Po Hong Kong, 2 Wang Tung Street, Kowloon Bay, Hong Kong; *and* Flat/RM B 8/F, Chong Ming Bldg., 72 Cheung Sha Wan Road KL, Hong Kong; *and* FlatiRM 2309, 23/F, Ho King COMM Center, 2–16 Fa Yuen Street, Mongkok KLN, Hong Kong (See alternate addresses under China and Singapore)	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	76 FR 67062, 10/31/11.
	Dick Kuo, Room 9–11, 5/F, Block B, Hoplite Industrial Centre, 3–5 Wang Tai Road, Kowloon, Hong Kong	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	75 FR 7359, 2/19/10.
	Dick Leung, GF Seapower Industrial Building 177, Hoi Bun Road, Kowloon, Hong Kong	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	75 FR 7359, 2/19/10.
	Exodus Microelectronics Company Limited, Unit 9B, Nathan Commercial Building 430–436 Nathan Road, Kowloon, Hong Kong; and Exodus Microelectronics Company Limited, Unit 6B, Block 1, International Centre 2–8 Kwei Tei Street, Shatin, New Territories, Hong Kong; and Exodus Microelectronics Company Limited, Unit 6B, Block 1, International Industrial Centre, 2–8 Kwei Tei Street, Shatin, Hong Kong	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	75 FR 1701, 1/13/10.

Country	Entity	License requirement	License review policy	FEDERAL REGISTER citation
	Foang Tech Inc., a.k.a., the following one alias: —Ofogh Electronics Co. Flat/RM 1701–Ricky CTR, 36 Chowg Yip Street, Kwun Tong, Hong Kong (See alternate address under China).	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 40178, 6/21/16.
	FOC (HK) Technology Co., Ltd., Room 8, 6/F, Shun On Commercial Building, 112–114 Des Voeux Road, Central, Hong Kong	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	78 FR 75463, 12/12/13.
	Fortune Source Electronics Co. Ltd., Unit A, 7/F Capri Building, 130 Austin Road, KLN, Hong Kong; *and* Unit A7/F Capri Building, 130 Austin Road, KLN, Hong Kong; *and* Unit 803, Fourseas Building, 208–212 Nathan Road, Kowloon, Hong Kong.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 56003, 9/18/14.
	Frank Genin, a.k.a., the following one alias: —Franck Genin. RM 1905, 19/F, Nam Wo Hong Bldg., 148 Wing Lok Street, Sheung Wang, Hong Kong (See alternate addresses under U.A.E.).	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 14958, 3/21/16.
	Giant Base Asia Limited, Room 2205, 22/F, Kowloon Building, 555 Nathan Road, Hong Kong; *and* Flat E, Block 1, 12/F, Superluck Industrial Centre, Tsuen Wan, New Territories, Hong Kong	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	78 FR 18808, 3/28/13. 80 FR 69856, 11/12/15.
	Giovan Ltd., Suite 1505–6, Albion Plaza, 2–6 Granville Road, TsimShatSui, Kowloon, Hong Kong (See alternate address under India).	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 61601, 9/7/16.
	Hang Tat Electronics Enterprises Co. Room 2608, Technology Plaza 29–35 Sha Tsui Road Tsuen Wan, Hong Kong	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	76 FR 63186, 10/12/01.
	Hansen Technologies Limited, Unit 501, 5/F, Global Gateway, 168 Yeung HK Road, Tsuen Wan, Hong Kong; *and* 9/F, Henan Building, 19 Luard Road, Wanchai, Hong Kong	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	78 FR 75463, 12/12/13.
	Hong Chun Tai, Unit 27B, Block 8, Monte Vista, 9 Sha On Street, Ma On Shan New Territories, Hong Kong; and Unit 7A, Nathan Commercial Building, 430–436 Nathan Road Kowloon, Hong Kong; and Room D, Block 1, 6/F International Industrial Centre, 2–8 Kwei Tei Street, Shatin, New Territories, Hong Kong; and Unit 9B, Nathan Commercial Building, 430–436 Nathan Road Kowloon, Hong Kong	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	75 FR 1701, 1/13/10.
	HWA Create, Unit 1001—1002, 10F, Chinachem Building, 34–37 Connaught Rd., Hong Kong; *and* Unit A 5th Floor, Cheong Commercial Building, 19–25 Jervois St, Hong Kong; *and* Unit B, 6/F, Dah Sing Life Building, 99—1–5 Des Voeux Rd, Hong Kong (See alternate addresses under China)	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 36202, 6/26/14.

Country	Entity	License requirement	License review policy	FEDERAL REGISTER citation
	Infinity Wise Technology Limited, 7/F One Kowloon, 1 Wang Yuen Street, Kowloon Bay, Kowloon, Hong Kong; *and* Room 1213 Chui King House, Choi Hung Estate, Kowloon, Hong Kong (See alternate addresses under Taiwan).	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 40178, 6/21/16.
	Jadeshine Engineering (HK) Co., Room 702, Boss Commercial Centre, Ferry Street 38, Kowloon, Hong Kong; *and* G/F BLK C 255 Sai Tau Wai DD 123 Lot 1307 Yuen Long, NT, Hong Kong	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	78 FR 18808, 3/28/13. 80 FR 69856, 11/12/15.
	Jadeshine Engineering HK Co., G/F Blk C, 255 Tau Wai, DD 123 Lot, Yuen Long, Hong Kong. (See alternate address under China)	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	78 FR 18811, 3/28/13.
	Jason Shuai a.k.a. the following one alias: -Jason Shine Hong Kong	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	78 FR 18811, 3/28/13.
	JLD Technology, Hong Kong Co., Ltd., Room 1237, Pacific Trade Centre, No. 2 Kai Hing Road, Kowloon Bay, Hong Kong; *and* Room 301–2, Hang Seng Wanchai Building, 3rd Floor, No. 200 Hennessy Road, Wanchai, Hong Kong	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 32441, 6/5/14. 80 FR 69856, 11/12/15.
	Joe Shih, Room 9–11, 5/F, Block B, Hoplite Industrial Centre, 3–5 Wang Tai Road, Kowloon, Hong Kong	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	75 FR 7359, 2/19/10.
	Joinus Freight Systems HK Ltd, a.k.a., the following one alias: —JFS Global Logistics. Unit 07–07, 25F, Tower B, Regent Centre, 63 Wo Yi Hop Road, Kwai Chung, N.T. Hong Kong; *and* Suite 801–803, Park Sun Bldg, 97–107 Wo Yi Hop Road, Kwai Chung, Hong Kong.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 14958, 3/21/16.
	Kinglead Electronics Co., Ltd., a.k.a., the following four aliases: —Kinglead InternationalTrading; —Kinglead Trading; —Kinglead International Trading Limited; *and* —Phonide Electronics Limited Room 1041 Pacific Trade Center, No. 2 Kai Hing Road, Kowloon Bay, Hong Kong; *and* B5–3, 29/F, Legend Tower, 7 Shing Yip Street, Kwun Tong, Kowloon, Hong Kong (See alternate address under China).	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 32441, 6/5/14. 80 FR 69856, 11/12/15.
	Kitronix Display, Unit B1, G/F, Pioneer Building, 213 Wai Yip St., Kwun Tong, Kowloon, Hong Kong	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	80 FR 69856, 11/12/15.
	Kong Fat Electronic Trading Limited, Unit 5, 1/F, Block A, Hoplite Industrial Centre, 3–5 Wang Tai Rd., Kowloon Bay, Kowloon, Hong Kong	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	73 FR 54503, 9/22/08.
	Lim Kow Seng, (a.k.a., Alvin Stanley, Eric Lim, James Wong, Mike Knight and Seng Lim Kow), Flat/Rm 3208 32/F, Central Plaza, 18 Harbour Road, Wanchai, Hong Kong; *and* Flat/RM 2309, 23/F, Ho King COMM Center, 2–16 Fa Yuen Street, Mongkok KLN, Hong Kong (See alternate addresses under Singapore)	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	76 FR 67062, 10/31/11.

Country	Entity	License requirement	License review policy	FEDERAL REGISTER citation
	Luo Jie, (a.k.a., Cherry, Ivy Luo and Jie Luo), Flat/RM 1510A, 15/F Ho King COMM Ctr, 2–16 Fa Yuen Street, Mongkok KL, Hong Kong; *and* C/O Win Sino Flat 12, 9/F, PO Hong Centre, 2 Wang Tung Street, Kowloon Bay, KLN, Hong Kong; *and* Flat/Rm D, 11/F 8 Hart Avenue, 8–10 Hart Avenue, Tsim Sha Tsui KL, Hong Kong; and G/F, No. 89, Fuyan Street, Kwun Tong, Hong Kong; *and* Flat 12, 9F Po Hong Kong, 2 Wang Tung Street, Kowloon Bay, Hong Kong; *and* Flat/RM B 8/F, Chong Ming Bldg., 72 Cheung Sha Wan Road, KL, Hong Kong; *and* Flat/Rm 3208 32/F Central Plaza, 18 Harbour Road, Wanchai, Hong Kong (See alternate addresses under China)	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	76 FR 67062, 10/31/11.
	OEM Hub Co Ltd, Rm 3208 32/F Central Plaza, 18 Harbour Road, Wanchai, Hong Kong; *and* Flat/RM 2309, 23/F, Ho King COMM Center, 2–16 Fa Yuen Street, Mongkok KLN, Hong Kong	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	76 FR 67062, 10/31/11.
	OnTime Electronics Technology Company, Room 609–610 6/F Boss Commercial Center, 28 Ferry Street, Jordon, Kowloon, Hong Kong	For all items subject to the EAR. (See 744.11 of the EAR).	Presumption of denial	75 FR 36519, 6/28/10.
	Panda Semiconductor, Room 2, Unit A 14/F Shun on Commercial building, 112–114 Des Voeux Road, Central, Hong Kong.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 40178, 6/21/16.
	Pinky Trading Co., Ltd., 338 Queen's Road, Central, Hong Kong.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 40178, 6/21/16.
	PRC Lode Technology Company, a.k.a., the following one alias: —Lode International Limited. Room 1019–1020 Nan Fung Centre, 264–298 Castle Peak Road, Tsuen Wan New Territories, Hong Kong; *and* Room 1522 Nan Fung Centre, 264–298 Castle Peak Road, Tsuen Wan New Territories, Hong Kong (See alternate addresses under China).	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 44680, 8/1/14. 80 FR 69856, 11/12/15.
	Reekay Technology Ltd., a.k.a., the following one alias: —Reekay Technology. Suite 502, 5th Floor Arion Commercial Centre, No. 2–12 Queens Road West, Sheung Wan, Hong Kong	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	80 FR 69856, 11/12/15.
	Sau Luen Chan, Unit 803, Fourseas Building, 208–212 Nathan Road, Kowloon, Hong Kong; *and* Room 803, Fourseas Bldg 208–212 Nathan Rd, Kowloon, Hong Kong.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 56003, 9/18/14.
	Sergey Koynov, a.k.a., the following one alias: —Sergey V. Coyne, Room 704 7/F, Landwide Commercial Building, 118–120 Austin Rd, Tsim Sha Tsui, Hong Kong (See alternate address in Russia).	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.

Country	Entity	License requirement	License review policy	FEDERAL REGISTER citation
	Serko Limited, Room 704 7/F, Landwide Commercial Building, 118–120 Austin Rd, Tsim Sha Tsui, Hong Kong; *and* Room 1509, Unit A, 15th Floor, Mai Shun Industrial Building, No. 18–24 Kwai Cheong Road, New Territories, Hong Kong.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	77 FR 61249, 10/9/12. 80 FR 69856, 11/12/15.
	Signet Express Co., Ltd., Room 9–11, 5/F, Block B, Hoplite Industrial Centre, 3–5 Wang Tai Road, Kowloon, Hong Kong	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	75 FR 7359, 2/19/10.
	Sik Yin Ngai, a.k.a. Spencer Ngai, Unit 401, Harbour Ctr., Tower 2, 8 Hok Cheung Street, Hung Hom, Kowloon, Hong Kong	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	74 FR 35799, 7/21/09.
	Sinovac Technology Limited, Rm 804 Sino Center, 582–592 Sino Center Road, Hong Kong.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 32445, 6/5/14.
	Siu Ching Ngai, a.k.a. Terry Ngai, Unit C, 9/F Neich Tower, 128 Gloucester Road, Wanchai, Hong Kong	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	74 FR 35799, 7/21/09.
	Sky Rise Technology Ltd., a.k.a., the following one alias: —Sky Rise Tech. Room 1905, 19/F, Nam Wo Hong Bldg., 148 Wing Lok Street, Sheung Wang, Hong Kong; *and* Room 1118, 11/F, Block B1, Yau Tong Industrial City, 17 Ko Fai Road, Yau Tong, Kowloon, Hong Kong; *and* Room 1119, 11/F, Block B, Yau Tong Industrial City, 17 Ko Fai Road, Yau Tong, Kowloon, Hong Kong (See also address under China).	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	80 FR 69856, 11/12/15.
	Skylinks FZC, a.k.a., the following two aliases: —Skylinks; *and* —Skylinks Satellite Comm. RM 1905, 19/F, Nam Wo Hong Bldg., 148 Wing Lok Street, Sheung Wang, Hong Kong (See alternate addresses under U.A.E.).	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 14958, 3/21/16.
	Su Bin, a.k.a., the following two aliases: —Stephen Subin; *and* —Steve Su. Rm 1019–1020 Nan Fung Centre, 264–298 Castle Peak Road, Tsuen Wan New Territories, Hong Kong; *and* Room 1522 Nan Fung Centre, 264–298 Castle Peak Road, Tsuen Wan New Territories, Hong Kong (See alternate addresses under China).	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 44683, 8/1/14.
	Synergy Express Ltd., Room 1237, Pacific Trade Centre, No. 2 Kai Hing Road, Kowloon Bay, Hong Kong.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 32445, 6/5/14.
	Sysdynamic Limited, Unit 716A, 7/F Enterprise Place (Building 9), No. 5 Science Park West Avenue, Hong Kong Science Park, Shatin, New Territories, Hong Kong; and Unit 401, Harbour Ctr., Tower 2, 8 Hok Cheung Street, Hung Hom, Kowloon, Hong Kong	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	74 FR 35799, 7/21/09.

Country	Entity	License requirement	License review policy	FEDERAL REGISTER citation
	Tam Shue Ngai, Unit C, 9/F Neich Tower, 128 Gloucester Road, Wanchai, Hong Kong	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	74 FR 35799, 7/21/09.
	Tam Wai Tak, a.k.a., Thomsom Tam, Room 609–610 6/F, Boss Commercial Center, 28 Ferry Street, Jordon, Kowloon, Hong Kong	For all items subject to the EAR. (See 744.11 of the EAR).	Presumption of denial	75 FR 36519, 6/28/10.
	Technopole Ltd., Suite 1505–6, Albion Plaza, 2–6 Granville Road, TsimShatSui, Kowloon, Hong Kong (See alternate address under India).	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 61601, 9/7/16.
	Tex-Co Logistics Ltd., a.k.a., the following one alias: —Tex-Co Hongxin Logistics Limited. GF Seapower Industrial Building 177, Hoi Bun Road, Kowloon, Hong Kong, *and* Room 2202, 22F, Causeway Bay Plaza 1, 489 Hennessey Road, Causeway Bay, Hong Kong, *and* Room B03, 6/F, Cheong Wah Factory Building, 39–41 Sheung Heung Road, Tokwawan, Kowloon, Hong Kong; *and* Room G, 6/F Winner Building, 36 Man Yue Street, Hung Hom, Kowloon.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	75 FR 7358, 2/19/10. 80 FR 69856, 11/12/15.
	TiMi Technologies Co., Ltd., a.k.a., the following two aliases: —TiMi Technology Co. Ltd. —TiMi Tech. Room 1119, 11/F, Block B, Yau Tong Industrial City, 17 Ko Fai Road, Yau Tong, Kowloon, Hong Kong; *and* Room 1118, 11/F, Block B1, Yau Tong Industrial City, 17 Ko Fai Road, Yau Tong, Kowloon, Hong Kong; *and* Unit A, G/F, Pioneer Building, 213 Wai Yip St., Kwun Tong, Kowloon, Hong Kong; *and* Room 1905, 19/F, Nam Wo Hong Bldg., 148 Wing Lok Street, Sheung Wang, Hong Kong (See also addresses under China)	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	80 FR 69856, 11/12/15.
	Victory Wave Holdings Limited, Unit 2401 A, Park-In Commercial Centre, 56 Dundas Street, Hong Kong; and Unit 2401A, 24/F Park-In Commercial Centre, 56 Dundas Street, Mongkok, Kowloon, Hong Kong	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	75 FR 1701, 1/13/10.
	Wang Wei, a.k.a., the following one alias: —Jack Wang. Room 1905, 19/F, Nam Wo Hong Bldg., 148 Wing Lok Street, Sheung Wang, Hong Kong; *and* Room 1118, 11/F, Block B, Yau Tong Industrial City, 17 Ko Fai Road, Yau Tong, Kowloon, Hong Kong; *and* Room 1119, 11/F, Block B, Yau Tong Industrial City, 17 Ko Fai Road, Yau Tong, Kowloon, Hong Kong (See also addresses under China).	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	80 FR 69856, 11/12/15.
	Well Smart (HK) Technology, Room 604, Kalok Building, 720 Nathan Road, Kowloon, Hong Kong.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 40178, 6/21/16.

Country	Entity	License requirement	License review policy	FEDERAL REGISTER citation
	Wise Smart (HK) Electronics Limited, Room 1213, Chui King House, Choi Hung Estate, Kowloon, Hong Kong.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 40178, 6/21/16.
	Wong Wai Chung, a.k.a., David Wong, Unit 27B, Block 8, Monte Vista, 9 Sha On Street, Ma On Shan, New Territories, Hong Kong; and Unit 7A, Nathan Commercial Building 430–436 Nathan Road, Kowloon, Hong Kong; and Room D, Block 1, 6/F International Industrial Centre, 2–8 Kwei Tei Street, Shatin, New Territories, Hong Kong	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	75 FR 1701, 1/13/10.
	Wong Yung Fai, a.k.a., Tonny Wong, Unit 27B, Block 8, Monte Vista, 9 Sha On Street, Ma On Shan, New Territories, Hong Kong; and Unit 1006, 10/F Carnarvon Plaza, 20 Carnarvon Road, TST, Kowloon, Hong Kong; and Unit 7A, Nathan Commercial Building, 430–436 Nathan Road, Kowloon, Hong Kong; and Room D, Block 1, 6/F International Industrial Centre, 2–8 Kwei Tei Street, Shatin, New Territories, Hong Kong; and Unit 9B, Nathan Commercial Building 430–436 Nathan Road, Kowloon, Hong Kong; and Unit 2401A, 24/F Park-In Commercial Centre, 56 Dundas Street, Mongkok, Kowloon, Hong Kong	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	75 FR 1701, 1/13/10.
	Xian Semi Electronic Co., Ltd., a.k.a., the following three aliases: —Semi Electronics Co.; —Semi Electronics International Co. Limited; and —Exodus Microelectronics Co., Ltd. CAMDY, F1, 6/F BR3 Lanzhou Ind., No. 20–30 Jiangyuan, Yantian, Hong Kong; and Room 611 6/F Ricky CTR 36 Chong Yip St., Kwun Tong Kowloon, Hong Kong (See alternate address under China).	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	76 FR 71869, 11/21/11.
	Y-Sing Components Limited, Unit 401, Harbour Ctr., Tower 2, 8 Hok Cheung Street, Hung Hom, Kowloon, Hong Kong	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	73 FR 54503, 9/22/08.
	Yeraz, LTD, a.k.a., the following one alias: —Mikrocity HK Limited. Room 927 9/F Far East Consortium Building, 121 Des Voeux Road C, Central District, Hong Kong; *and* Room 402–403, 4/F, Hong Kong Trade Centre, 161–167 Des Voeux Road, Central, Hong Kong.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	76 FR 44259, 7/25/11. 80 FR 69856, 11/12/15.
	Zhou Zhenyong, (a.k.a., Benny Zhou and Zhenyong Zhou), G/F, No. 89, Fuyan Street, Kwun Tong, Hong Kong; *and* Flat 12, 9F Po Hong Kong 2 Wang Tung Street, Kowloon Bay, Hong Kong; *and* Flat/RM B 8/F, Chong Ming Bldg., 72 Cheung Sha Wan Road, KL, Hong Kong; *and* Flat/RM 2309, 23/F, Ho King COMM Center, 2–16 Fa Yuen Street, Mongkok KLN, Hong Kong (See alternate addresses under China)	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	76 FR 67062, 10/31/11.

Country	Entity	License requirement	License review policy	FEDERAL REGISTER citation
INDIA	The following Department of Atomic Energy entities: —Bhabha Atomic Research Center (BARC); —Indira Gandhi Atomic Research Center (IGCAR); —Indian Rare Earths; —Nuclear reactors (including power plants) not under International Atomic Energy Agency (IAEA) safeguards, (excluding Kundankulam 1 and 2) fuel reprocessing and enrichment facilities, heavy water production facilities and their collocated ammonia plants	For all items subject to the EAR.	Case-by-case for all items listed on the CCL. Presumption of approval for EAR99 items.	63 FR 64322, 11/19/98 65 FR 14444, 3/17/00 66 FR 50090, 10/1/01 69 FR 56694, 9/22/04.
	Beaumont Trading AG, a.k.a., the following one alias: —Beaumont Tradex India. 412 World Trade Center, Conaught Place, New Delhi—110001, India; *and* 4th Floor Statesman House Building, Barakhamba Road, New Delhi 11001, India; *and* Express Towers, 1st Floor, Express Building, 9–10 Bahadurshah Zafar Marg, New Delhi-12, India (See alternate addresses under Switzerland and U.A.E.).	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 14958, 3/21/16.
	Giovan Ltd., C–16A, New Multan Nagar, Surya Enclave, New Rohtak Road 099 Paschim Vihar, New Delhi, India 110056 (See alternate address under Hong Kong).	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 61601, 9/7/16.
	Technopole Ltd., D–79, New Multan Nagar, Surya Enclave, New Rohtak Road 099 Paschim Vihar, New Delhi, India 110056 (See alternate address under Hong Kong).	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 61601, 9/7/16.
	Veteran Avia LLC a.k.a., the following alias: —Veteran Airline. A–107, Lajpat Nagar—I New Delhi 110024, India; *and* Room No. 34 Import Cargo, IGI Airport Terminal—II, New Delhi 110037, India; *and* 25B, Camac Street 3E, Camac Court Kolkatta, 700016, India; *and* Ali's Chamber #202, 2nd Floor Sahar Cargo Complex Andheri East Mumbai, 400099, India (See also addresses under Armenia, Greece, Pakistan, and U.K.)	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 56003, 9/18/14. 81 FR 8829, 2/23/16.
IRAN	Abbas Goldoozan, No. 86 Negin Tower, Farmaniyeh St., 1937944633 Tehran, Iran (See also alternate address under Turkey).	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	80 FR 22640, 4/23/15.
	Aflak Micro Electronics, Tehranno 14, Golkade St., Arash Mehr Ave., Tehran, Iran	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	73 FR 54503, 9/22/08.
	Ahmad Rahzad, a.k.a., Saeb Karim, 29, 1st Floor, Amjad Bldg., Jomhoori Ave., Tehran, Iran (See alternate address under Malaysia)	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	73 FR 54503, 9/22/08.
	Ali Reza Seif, 34 Mansour Street, Tehran, Iran	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	73 FR 54503, 9/22/08.

Country	Entity	License requirement	License review policy	FEDERAL REGISTER citation
	Amir Hosein Atabaki, 5 Yaas St, Unit 4, Tehran, Iran	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	73 FR 74001, 12/5/08.
	Anvik Technologies Sdn. Bhd., a.k.a., the following eight aliases: —Anvik Technologies; —Cason Technologies; —Henan Electronics; —Hixton Technologies; —Hudson Technologies, Ltd.; —Hudson Engineering (Hong Kong) Ltd.; —Madison Engineering Ltd.; *and* —Montana Advanced Engineering. F10, No. 21, 9th Alley, Vozara Ave., Tehran, Iran (See alternate addresses under Hong Kong and Malaysia).	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	78 FR 75463, 12/12/13.
	Arash Dadgar, No. 10, 64th St., Yousafabad, Tehran, Iran, 14638, and Unit 11, No. 35 South Iranshahr St., Tehran, Iran	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	73 FR 54506, 9/22/08. 75 FR 1701, 1/13/10.
	Arash Servatian, 12 Kandovan Alley Enghelab Ave., Opp. Villa (Ostad Nejatollahi) 1131834914 Tehran, Iran.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	80 FR 22640, 4/23/15.
	Atomic Energy Organization of Iran (AEOI), a.k.a. the following two aliases: —Sazeman-e Energy Atomi; and —Sazeman-e Enerji-e Atomi. P.O. Box 14144–1339, End of North Karegar Avenue, Tehran; and P.O. Box 14155–4494, Tehran, Iran; and all locations in Iran.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	72 FR 38008, 7/12/07. 77 FR 24590, 4/25/12.
	Babak Jafarpour, a.k.a., the following five aliases: —Bob Jefferson; —Peter Jay; —Sam Lee; —Samson Lee; *and* —David Lee. F10, No. 21, 9th Alley, Vozara Ave., Tehran, Iran (See alternate addresses under Hong Kong and Malaysia)	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	78 FR 75463, 12/12/13.
	Bahman Ghandi, a.k.a., Brian Ghandi, No. 14, Golkadeh St., Arashmehr St., Tehran, Iran	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	73 FR 54503, 9/22/08.
	Elaheh Siahpoush, 12 Kandovan Alley Enghelab Ave., Opp. Villa (Ostad Nejatollahi) 1131834914 Tehran, Iran.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	80 FR 22640, 4/23/15.
	Elecomponents, Iran	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	73 FR 54503, 9/22/08.
	Fadjr Marine Industries, a.k.a., SADAF, 169 Malekloo Ave., Farjam Ave., Tehran Pars, Tehran, Iran	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	75 FR 36519, 6/28/10.
	Faradis Production, No. 33, Second Floor, Amjad Electronic Center, Jomhouri Ave., Tehran, Iran	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	73 FR 54503, 9/22/08.
	Faratel Company, 12 Kandovan Alley Enghelab Ave., Opp. Villa (Ostad Nejatollahi) 1131834914 Tehran, Iran.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	80 FR 22640, 4/23/15.

Country	Entity	License requirement	License review policy	FEDERAL REGISTER citation
	Farhad Maani, 67, 1st Floor, No. 3, Ebn-E Sina St., Mr. ValiAsr Ave., W. of Beheshti, Tehran, Iran	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	73 FR 54503, 9/22/08.
	FIMCO FZE, No. 3, Rahim Salehi Alley, Akbari St., Roomi Bridge, Dr. Shariati Ave, P.O. Box 3379, Tehran, Iran 3379/19395 (See alternate address under U.A.E.).	For all items subject to the EAR (See § 744.11 of the EAR).	Presumption of denial	79 FR 44683, 8/1/14.
	GBNTT, No. 34 Mansour Street, Tehran, Iran	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	73 FR 54503, 9/22/08.
	Golza Engineering Company, No. 80/1, Fourth Floor, North Sindokht St., Dr. Fatemi Ave., Tehran, 14118, Iran	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	73 FR 54503, 9/22/08.
	H. Farahani, Ground Floor—No. 31, Alborz Alley, EnghelabSt, Tehran, Iran	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	73 FR 74001, 12/5/08.
	Hamid Reza Ansarian, P.O. Box 19575–354, Tehran, Iran	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	73 FR 54503, 9/22/08.
	Hamid Reza Simchi, P.O. Box 19575–354, Tehran, Iran	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	75 FR 36519, 6/28/10.
	Hassan Seifi, Unit #23, Eighth Floor, No. 193 West Sarve Boulevard Kaj Square, Saadat Abad, 19987–14434, Tehran, Iran	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	76 FR 37633, 6/28/11.
	Hossein Ahmad Larijani, No 3 Mirza Kochak Ave., Jomhori Street, Tehran, Iran; *and* No. 5 Mirzakuchanhan Street, Jomhori Ave., Tehran, Iran; *and* No. 5 Mirza Kochak Ave., Jomhori Street, Tehran, Iran; *and* No. 5, Near to Flower Shop Mirza Koochak- Khan Jangali St, 30–Tir Junction, Jomhori St, Tehran, Iran; *and* Unit 6, No. 37, Goharshad Alley After 30 Tir Jomhori Street, Tehran, Iran; *and* Forghani Passage, Before 30 Tir, After Havez, Jomhori Ave., Tehran, Iran (See alternate addresses under Singapore)	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	76 FR 67062, 10/31/11.
	Iraj Najmi, No. 80/1, Fourth Floor, North Sindokht St., Dr. Fatemi Ave., Tehran, 14118, Iran	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	73 FR 54503, 9/22/08.
	Kalaye Electric Company, a.k.a. the following four aliases: —Kala Electric Company; —Kalia; —Kala Electric; and —Kola Electric Company. 33 Fifteenth (15th) Street, Seyed-Jamal-Eddin-Assad Abadi Avenue, Tehran, Iran.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	72 FR 38008, 07/12/07. 77 FR 24590, 4/25/12.
	Kish Airlines, Headquarters, No. 21 Ekbatan Main Blvd., P.O. Box 19395/4639, Tehran, 13938, Iran	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	76 FR 50410, 8/15/11.
	Mahdi Electronics, a.k.a. the following alias: —Mahdi Electronic Trading Co. Ltd. Ground Floor—No. 31 Alborz Alley, Enghelab St., Tehran, Iran.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	73 FR 74001, 12/5/08. 77 FR 24590, 4/25/12.

Country	Entity	License requirement	License review policy	FEDERAL REGISTER citation
	Mahmood Akbari, a.k.a., the following alias: —John Wassermann. No. 34, Arash Blvd., Farid Afshar St., Zafar Ave., Tehran, Iran.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 14958, 3/21/16.
	Maryan Jahanshahi, 34 Mansour St., Motahari-ValiAsr Street Junction, Tehran, Iran	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	73 FR 54503, 9/22/08.
	Mehrdad Rueen Foomanie, a.k.a., the following four aliases: —Frank Foomanie; —Mark Foomanie; —Mark Averin; *and* —Max Xian. No. 35 Abaas Abaad Street, Daryosh Street Andesheh 2 Street (Hamid Qods), Iran—Tehran; *and* Sohrivardi Shomali Street, Andesheh 2 Street, after Daryoush Crossroad, No. 35, Floor 5, No. 8, Tehran, Iran.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 40178, 6/21/16.
	Mesbah Energy Company (a.k.a. "MEC"), 77 Armaghan Gharbi Street, Valiasr Blve,Tehran, Iran	For all items subject to the EAR. (See § 744.2 of the EAR).	Presumption of denial	72 FR 38010, 7/12/07.
	Mohammed Narjespour, 34 Mansour St., ValiAsr-Motahari Crossing, Tehran, Iran	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	73 FR 54503, 9/22/08.
	Morvarid Sanat Co. Ltd., Sohrivardi Shomah Street, Andesheh 2 Street, after Daryosh Crossroad, No. 35 Floor 5, No. 8, Tehran, Iran.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 40178, 6/21/16.
	Morvarid Shargh Co. Ltd., Sohrivardi Street No. 35, Tehran, Iran.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 40178, 6/21/16.
	Moslem Nasiri, 34 Mansour St., ValiAsr-Motahari Crossing, Tehran, Iran	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	73 FR 54503, 9/22/08.
	Mostafa Oveici, a.k.a., the following one alias: Mosi Oveici. Mehrabad Airport, Tehran, Iran, (See alternate address under Thailand)	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	78 FR 75463, 12/12/13.
	M.R. Ahmadi, P.O. Box 19575/199, Tehran, Iran	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	73 FR 54503, 9/22/08.
	Naser Golshekan, Ground Floor—No. 31, Alborz Alley, EnghelabSt, Tehran, Iran	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	73 FR 74001, 12/5/08.
	NBC Navegan Bar Co. Ltd., a.k.a. the following alias: —NBC Navegan Bar International Transport Co. Ltd. #135 Khorramshahr Ave., Tehran 1533864163; and 101, Kohrramshahr Ave., Tehran 1533864163.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	73 FR 54507, 9/22/08. 76 FR 21628, 4/18/11. 77 FR 24590, 4/25/12.
	Neda Industrial Group, No. 10 and 12, 64th St. Jamalodin Asadabadi Avenue, Tehran, Iran	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	73 FR 54503, 9/22/08.
	Nedayeh Micron Electronics, No. 34 Mansour St., Tehran, Iran	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	73 FR 54503, 9/22/08.

Country	Entity	License requirement	License review policy	FEDERAL REGISTER citation
	Niasan Century Industry, Unit 2, GF, No.:1, Marzban Name Alley, Mofateh St., Motahari Ave., 1588875333, Tehran, Iran	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	73 FR 54503, 9/22/08.
	Pakgostar Company, Appt 501 & 502, Borje Sefid Bldg, Pasadaran Avenue, Tehran 1946963651, Iran	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	73 FR 74001, 12/5/08.
	Parto System Tehran, (a.k.a., Rayan Parto System Tehran and Rayane Parto System Tehran), Unit 7, Floor 4 No. 51 around Golestan Alley End of Shahaneghi Ave., Sheikh Bahaee Str., Molasadra, Tehran, Iran; *and* No. 83 Around of Shanr Tash Ave. After Cross of ABAS ABAD North Sohrevadi Str., Tehran, Iran	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	76 FR 67062, 10/31/11.
	Paya Electronics Complex, (a.k.a., Paya Complex), No 3 Mirza Kochak Ave. Jomhori Street, Tehran, Iran; *and* No. 5 Mirzakuchanhan Street Jomhori Ave., Tehran, Iran; *and* No. 5 Mirza Kochak Ave. Jomhori Street, Tehran, Iran; *and* No. 5, Near to Flower Shop Mirza Koochak-Khan Jangali St, 30–Tir Junction, Jomhori St., Tehran, Iran; *and* Unit 6, No. 37 Goharshad Alley After 30 Tir Jomhori Street, Tehran, Iran; *and* Forghani Passage, Before 30 Tir, After Havez, Jomhori Ave., Tehran, Iran	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	76 FR 67062, 10/31/11.
	Rad Tavan Afza Company, 3rd Floor, No. 210, W. Fatemi, Tehran, Iran, P.O. Box 14185–387; and 1st Pars Bldg., Beg. Pars Alley, Betw Khosh & Behboudi St., Azadi Ave., Tehran, Iran	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	73 FR 54507, 9/22/08. 77 FR 24590, 4/25/12.
	Raht Aseman Co. Ltd., No. 1.2, Mosque Alley, Mohammadi St., North Bahar Ave., Tehran, Iran	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	73 FR 74001, 12/5/08. 77 FR 24590, 4/25/12.
	Reza Hajigholamali, No. 34, Arash Blvd., Farid Afshar St., Zafar Ave., Tehran, Iran (See alternate addresses under U.A.E.).	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 14958, 3/21/16.
	Reza Seifi, Unit #23, Eighth Floor, No. 193 West Sarve Boulevard Kaj Square, Saadat Abad, 19987–14434, Tehran, Iran	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	76 FR 37633, 6/28/11.
	Reza Zahedi Pour, 5 Yaas St., Unit 4, Tehran, Iran	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	73 FR 74001, 12/5/08. 77 FR 24590, 4/25/12.
	Sabanican Company (a.k.a., Sabanican Pad Co.), Unit #23, Eighth Floor, No. 193 West Sarve Boulevard Kaj Square, Saadat Abad, 19987–14434, Tehran, Iran	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	76 FR 37633, 6/28/11.
	Saeed Talebi, a.k.a., the following two aliases: Al; *and* Allen Talebi. No. 27, Zarif Nia, Pesyan Valley, Tehran, Iran; *and* No. 3, West Saeb Tabrizi Lane, North Sheikh Bahaee Street, Tehran, Iran (See alternate addresses under Canada and U.A.E.)	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	78 FR 75463, 12/12/13.
	Safir Electronics, Ground floor No. 31 Alborz Alley, EnghelabSt. Tehran, Iran	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	73 FR 74001, 12/5/08.

Country	Entity	License requirement	License review policy	FEDERAL REGISTER citation
	Sahab Phase, 5 Yaas St, Unit 4 Tehran, Iran	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	73 FR 74001, 12/5/08.
	Sahand Airlines, Sahand Airport, Bonab/Sahand, Iran	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	76 FR 50410, 8/15/11.
	Sanaye Electronic Arman Ertebat Nemad Company (SAEN CO.), 67, 1st Floor, No. 3, Ebn-E Sina St., Mr. ValiAsr Ave., W. of Beheshti, Tehran, Iran	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	73 FR 54503, 9/22/08.
	Satco, No. 3, West Saeb Tabrizi Lane, North Sheikh Bahaee Street, Tehran, Iran	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	78 FR 75463, 12/12/13.
	Sazgan Ertebat Co. Ltd., a.k.a., the following one alias: —Sazgan Ertebat Poya Co. Ltd. No. 40-Hoveizeh St. Sohrevardi St., Tehran, Iran; *and* P.O. Box 16315–194 Zip: 1559934314.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 40178, 6/21/16.
	Seyed Mahdi Mousavi, BLK 6, No. 12 Beside Gilan Street, Rodstar Street, Under Hafez Bridge, Tehran, Iran; *and* No. 10–6th Floor Iranian Trade Center, Valiasr Square, Tehran, Iran (See alternate addresses under U.A.E.).	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	77 FR 58006, 9/19/12.
	Seyed Mousavi Trading, a.k.a., the following two aliases: —Hitech Computer Peripherals; *and* —Hitech Corporation. BLK 6, No. 12 Beside Gilan Street, Rodstar Street, Under Hafez Bridge, Tehran, Iran; *and* No. 10–6th Floor Iranian Trade Center, Valiasr Square, Tehran, Iran (See alternate addresses under U.A.E.).	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	77 FR 58006, 9/19/12.
	Shahid Bakeri Industrial Group, a.k.a. the following nine aliases: —SBIG; —Shahid Baheri Industries Group; —Shahid Bagheri Industries Group; —Shahid Bagheri Industrial Group; —MEHR Trading Company; —Department 140/14; —Mahtab Technical Engineering Company; —Composite Propellant Missile Industry; and —Sanaye Sokhte Morakab (SSM). Pasdaran Ave., Tehran, Iran.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	72 FR 38008, 7/12/07. 77 FR 24590, 4/25/12.
	Shahid Hemmat Industrial Group, a.k.a. the following six aliases: —SHIG; —Shahid Hemat Industrial Group; —Chahid Hemmat Industrial Group; —Shahid Hemmat Industrial Complex (SHIC); —Shahid Hemmat Industrial Factories (SHIF); and —Hemmat Missile Industries Factory. Damavand Tehran Highway, Tehran, Iran; Damavand Tehran Highway, Tehran, Iran; and Damavand Road 2, Abali Road, Tehran, Iran.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	72 FR 38008, 7/12/07. 77 FR 24590, 4/25/12.

Country	Entity	License requirement	License review policy	FEDERAL REGISTER citation
	Simin Neda Industrial and Electrical Parts, a.k.a., the following alias: —TTSN No. 22, Second Floor, Amjad Bldg., Jomhoori Ave., Tehran, Iran	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	73 FR 54507, 9/22/08. 77 FR 24590, 4/25/12.
	Tadbir Sanaat Sharif Technology Development Center (TSS), First Floor, No. 25 Shahid Siadat Boulevard, North Zanjan Street, Yadegar Emam Highway, Tehran, Iran	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	75 FR 36519, 6/28/10.
	Toos Electronics, 29, 1st Floor, Amjad Bldg., Jomhoori Ave., Tehran, Iran	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	73 FR 54503, 9/22/08.
	Ukraine Mediterranean Airlines, a.k.a., UM Airlines, UM Air, Building Negin Sai app. 105, Valiasr Str., Tehran, Iran (See alternate addresses under Ukraine and Syria)	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	76 FR 50410, 8/15/11.
	Vizneh Trading Company, 34 Mansour St., Motahari and ValiAsr Junction, Tehran, Iran, 1595747764	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	73 FR 54503, 9/22/08.
	Zagros Airlines, Abadan Airport, Abadan, Iran	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	76 FR 50410, 8/15/11.
	ZTE Parsian, No. 100, Africa Ave., Mirdamad Entersection, Tehran, Iran	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 12006, 3/8/16.
IRAQ	Abd Al Hakim Luqman Jasim Muhammad, Al Faysaliyah, Mosul, Iraq.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 57454, 8/23/16.
	Ag Yildiz Insaat Gayrimenkul Tasimacilik Pazarlama Ithalat Ihracat ve Ticaret Ltd. Sirketi, a.k.a. the following four aliases: —Ag Yildiz Cargo; —Ag Yildiz Gayrimenkul; —Yildiz Company; *and* —Yildiz Shipping Company. Irbil, Iraq; and Mosul, Iraq (See alternate addresses under Syria and Turkey).	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 57454, 8/23/16.
	Sekirin Tekstil Ithalat Ihracat Ie ve Dis Ticaret Limited Sirketi, a.k.a., the following seven aliases: —Sekirin Textiles Export Import Limited Company; —Al Shakirin International Transport Company; —Shakirin Company; —Shakrin Company; —Sekirin Ticaret; —Al Shakirin Company; *and* —Sekirin Company. Al Faysaliyah, Mosul, Iraq (See alternate addresses under Syria and Turkey).	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 57454, 8/23/16.
IRELAND	Mac Aviation Group, a.k.a. Mac Aviation Limited, Cloonmull House, Drumcliffe, County Sligo, Ireland	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	74 FR 35799, 7/21/09.
	Mac Aviation Nigeria, Cloonmull House, Drumcliffe, County Sligo, Ireland	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	74 FR 35799, 7/21/09.

Country	Entity	License requirement	License review policy	FEDERAL REGISTER citation
	Sean Byrne, Cloonmull House, Drumcliffe, County Sligo, Ireland	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	74 FR 35799, 7/21/09.
	Sean McGuinn, Cloonmull House, Drumcliffe, County Sligo, Ireland	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	74 FR 35799, 7/21/09.
	Thomas McGuinn a.k.a. Tom McGuinn, Cloonmull House, Drumcliffe, County Sligo, Ireland	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	74 FR 35799, 7/21/09.
ISRAEL	A. Leib Ltd.; HA'Assif 19, Binyamina, Israel.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 40178, 6/21/16.
	AVS (Armored Vehicle Spares), a.k.a., the following one alias: —Armored Vehicle Service. 42 Hamesilla Street, Binyamina, Israel.	For all items subject to the EAR. (See § 744.11 of the EAR)..	Presumption of denial	81 FR 40178, 6/21/16.
	Ben Gurion University, Israel	For computers above the Tier 3 level described in Section 740.7(d) (i.e., Tier 3 under APP).	Case-by-case basis ..	62 FR 4910, 2/3/97. 65 FR 12919, 3/10/00. 75 FR 29885, 5/28/10.
	Eliyahu Cohen, a.k.a., the following six aliases: —Arie Cohen; —Eli Cohen; —Eliyahu Ari Cohen; —Eliyahu Arie Cohen; —Eric Cohen; *and* —Ari Kohan. Binyamina, Israel.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 40178, 6/21/16.
	M&P Trading Inc., P.O. Box 161, Caesarea, Israel 3088903.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 40178, 6/21/16.
	Nuclear Research Center at Negev Dimona, Israel	For all items subject to the EAR.	Case-by-case basis ..	62 FR 35334, 6/30/97.
	P.AD Ltd., 42 Hamesilla Street, Binyamina, Israel.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 40178, 6/21/16.
	QPS Ltd., a.k.a., the following two aliases: —Quality Parts and Spares; *and* —Quality Parts and Services. 5 Ner Halayla Street, Caesarea, Israel; *and* 42 Hamesilla Street, Railway Industrial Area, Binyamina, Israel.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 40178, 6/21/16.
	RSP Ltd., a.k.a., the following one alias: —Rebuilt Spare Parts. HA'Assif 19, Binyamina, Israel 30550.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 40178, 6/21/16.
	Wheels Incorporated, HA'Assif 43, Binyamina, Israel 30551 (See alternate address under Panama).	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 40178, 6/21/16.
KAZAKHSTAN	APEX Kazakhstan, 126 Jarokova Str, Almaty, Kazakhstan.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.

Country	Entity	License requirement	License review policy	FEDERAL REGISTER citation
LEBANON	al Tawasul al Arabi Net Systems, Beirut, Lebanon (See alternate addresses under U.A.E.).	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 32445, 6/5/14.
	EKT Electronics, a.k.a. the following four aliases: —Katrangi Electronics; —Katrangi Trading; —Katranji Labs; and —Electronics Systems. 1st floor, Hujij Building, Korniche Street, P.O. Box 817 No. 3, Beirut, Lebanon; P.O. Box: 8173, Beirut, Lebanon; and #1 fl., Grand Hills Bldg., Said Khansa St., Jnah (BHV), Beirut, Lebanon. (See alternate addresses under Syria.)	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	73 FR 54507, 9/22/08. 77 FR 24590, 4/25/12.
	Husayn Fa'ur, a.k.a., the following one alias: —Hussein Faour. Beirut Hadath, Morjan Bldg near Sfeir Bridge, Lebanon (See alternate address under U.A.E.).	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 32445, 6/5/14.
	Micro Power Engineering Group, a.k.a., MPEG, Anwar Street, Abou Karam Building, 1st Floor, Jdeidet El Metn, Beirut, Lebanon	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	76 FR 44261, 7/25/11.
	Mohammed Katranji, 1st floor, Hujij Building, Korniche Street, P.O. Box 817 No. 3, Beirut, Lebanon (See alternate address under Syria)	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	73 FR 54503, 9/22/08.
	Narinco Micro Sarl, Dedeyan Center, Dora Boulevard Street, Bauchrieh Metn. Lebanon	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	76 FR 44261, 7/25/11.
	New Intelcom, Manchieh St, Garden Place Blvd, Hariet Hreik, Beirut, Lebanon; *and* Al-Hadath, Gallery Semann, Behind KFC, Jordan Bldg, 1st Floor, Beirut, Lebanon.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 32445, 6/5/14.
	Power S.A.L., Al-Hadath, Gallery Semann, Behind KFC, Jordan Bldg, 1st Floor, Beirut, Lebanon.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 32445, 6/5/14.
	Serop Elmayan and Sons Lebanon, Ground Floor, Aramouni Building, Property Number 1731, Fleuve Street, Mar Mekhael Sector, Beirut, Lebanon	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	76 FR 44261, 7/25/11.
	Serpico Offshore Sarl, Ground Floor, Aramouni Building, Property Number 1731 Fleuve Street, Mar Mekhael Sector, Beirut, Lebanon	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	76 FR 44261, 7/25/11.
	Wave Tech, Riad El Sulh Square, Shaker & Oweini Bldg, 4th Floor, Beirut, Lebanon.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 32445, 6/5/14.
	Zener Lebanon, Beirut Hadath, Morjan Bldg near Sfeir Bridge, Lebanon.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 32445, 6/5/14.
LUXEMBOURG ..	Maples SA, Boulevard Royal 25/B 2449, Luxembourg	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	80 FR 80646, 12/28/15.

Country	Entity	License requirement	License review policy	FEDERAL REGISTER citation
	Volga Group, a.k.a., the following three aliases: —Volga Group Investments, *and* —Volga Resources, *and* —Volga Resources Group. 3, rue de la Reine L–2418 Luxembourg (See alternate address under Russia).	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 24561, 5/1/14.
MALAYSIA	Ace Hub System, No. 15, Jalan PJS 11/16, Taman Bandar Sunway, 46150 Petaling Jaya, Selangor, Malaysia	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	73 FR 54503, 9/22/08.
	Ahmad Rahzad, a.k.a., Saeb Karim, 27–06, Amcorp Bldg., Jalan 18, Persiaran Barat, Petaling Jaya, 46050 Selangor, Malaysia (See alternate address under Iran)	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	73 FR 54503, 9/22/08.
	Albin Technologies Sdn Bhd., M–3–19 Plaza Damas, Sri Hartamas, Kuala Lumpur, Malaysia 50480; *and* P.O. Box 4, Level 13A, Menara Park, Block D, Megan Ave. II, No 12, Jalan Yap Kwan Seng, Kuala Lumpur, Malaysia	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	78 FR 75463, 12/12/13.
	Alex Ramzi, Suite 33–01, Menara Keck Seng, 203 Jalan Bukit Bintang, Kuala Lumpur, Malaysia 55100	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	75 FR 1701, 1/13/10.
	Amir Ghasemi, Suite 33–01, Menara Keck Seng, 203 Jalan Bukit Bintang, Kuala Lumpur, Malaysia 55100	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	75 FR 1701, 1/13/10.
	Analytical Solutions, #GB (Ground Floor), Pearl Tower, O.G. Heights, Jalan Awan Cina, 58200 Kuala Lumpur, Malaysia	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	73 FR 54508 9/22/08 73 FR 74001, 12/5/08.
	Ann Teck Tong, 97C, Jalan Kenari 23, Puchong Jaya, Puchong, Selangor, Malaysia Suite D23, Tkt. 2, Plaza Pekeliling, Jalan Tun Razak, Kuala Lumpur, Wilayah, Peresekkutuan, Malaysia	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	73 FR 54503, 9/22/08.
	Antcorp System, 5–02 Wisma Pantai, Jalan Wisma Pantai 12200 Butterworth, Penang, Malaysia; 27–G Lorong Kelasah 2, Tamen Kelasah 13700 Seberang Jaya, Penang, Malaysia; and No. 9 Jalan 3/4C Desa Melawati 53100 Kuala Lumpur, Malaysia	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	73 FR 54508. 9/22/08. 74 FR 8184. 2/24/2009.
	Anvik Technologies Sdn. Bhd., a.k.a., the following eight aliases: —Anvik Technologies; —Cason Technologies; —Henan Electronics; —Hixton Technologies; —Hudson Technologies, Ltd.; —Hudson Engineering (Hong Kong) Ltd.; —Madison Engineering Ltd.; *and* —Montana Advanced Engineering. Level 36, Menara Citibank, 165 Jalan Ampang, Kuala Lumpur, Malaysia, 50450; *and* Level 20, Menara Standard Chartered, 30 Jalan Sultan Ismail, Kuala Lumpur, Malaysia, 50250, (See alternate addresses under Hong Kong and Iran)	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	78 FR 75463, 12/12/13.

Country	Entity	License requirement	License review policy	FEDERAL REGISTER citation
	Austral Aero-Marine Corp. Sdn Bhd, 10A Jalan 2/137B, Resource Industrial Centre Off Jalan Kelang Lama 58000, Kuala Lumpur, Malaysia	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	75 FR 36519, 6/28/10.
	Austral Aviation Corp., 10A Jalan 2/137B, Resource Industrial Centre Off Jalan Kelang Lama 58000, Kuala Lumpur, Malaysia	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	75 FR 36519, 6/28/10.
	Babak Jafarpour, a.k.a., the following five aliases: Bob Jefferson; Peter Jay; Sam Lee; Samson Lee; *and* David Lee. Level 36, Menara Citibank, 165 Jalan Ampang, Kuala Lumpur, Malaysia, 50450; *and* Level 20, Menara Standard Chartered, 30 Jalan Sultan Ismail, Kuala Lumpur, Malaysia, 50250; *and* Level 26, Tower 2, Etiqa Twins 11, Jalan Pinang, Kuala Lumpur, Malaysia 50450; *and* M–3–19 Plaza Damas, Sri Hartamas, Kuala Lumpur, Malaysia 50480 (See alternate addresses under Hong Kong and Iran)	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	78 FR 75463, 12/12/13.
	Brian Kaam, a.k.a., Kaam Chee Mun, No. 15, Jalan PJS 11/16, Taman Bandar Sunway, 46150 Petaling Jaya, Selangor, Malaysia	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	73 FR 54503, 9/22/08.
	East Tech, Malaysia	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	73 FR 54503, 9/22/08.
	Eco Biochem Sdn Bhd, No. 15, Jalan PJS 11/16, Taman Bandar Sunway, 46150 Petaling Jaya, Selangor D.E., Malaysia.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	73 FR 54508, 9/22/08. 77 FR 58006, 9/19/12.
	EEZ SDN, a.k.a., the following one alias: —Electronic Engineering Zone SDN BHD. 33–88 Menara Keck Seng, 203 Jalan Bukit Bintang, Kuala Lumpur, Malaysia; *and* A–17–8 Tower A, Menara Atlas, Plaza Pantai 5, Jalan 4/83A, off Jalan Pantai Baru, Kuala Lumpur, Malaysia; *and* B–3A–7 Empire Subang, Jalan SS16/1, Subang Jaya, Malaysia.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 14958, 3/21/16.
	Evertop Services Sdn Bhd, Suite 33–01, Menara Keck Seng, 203 Jalan Bukit Bintang, Kuala Lumpur, Malaysia 55100	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	75 FR 1701, 1/13/10.
	Festsco Marketing Sdn Bhd, 97C, Jalan Kenari 23, Puchong Jaya, Puchong, Selangor, Malaysia; *and* Suite D23, Tkt. 2, Plaza Pekeliling, Jalan Tun Razak, Kuala Lumpur, Wilayah Persekkutuan, Malaysia.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	73 FR 54508, 9/22/08. 77 FR 58006, 9/19/12.
	Jimmy Tok, 10A Jalan 2/137B, Resource Industrial Centre Off Jalan Kelang Lama 58000, Kuala Lumpur, Malaysia	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	75 FR 36519, 6/28/10.
	Majid Kakavand, Suite 33–01, Menara Keck Seng, 203 Jalan Bukit Bintang, Kuala Lumpur, Malaysia 55100	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	75 FR 1701, 1/13/10.
	Majid Seif, a.k.a., Mark Ong and Matti Chong, 27–06 Amcorp Building, Jalan 18, Persiaran Barat 46050 Petaling Jaya, Selangor, Malaysia	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	73 FR 54503, 9/22/08.

Country	Entity	License requirement	License review policy	FEDERAL REGISTER citation
	Mohamad Sadeghi, 33–88 Menara Keck Seng, 203 Jalan Bukit Bintang, Kuala Lumpur, Malaysia; *and* A–17–8 Tower A, Menara Atlas, Plaza Pantai 5, Jalan 4/83A, off Jalan Pantai Baru, Kuala Lumpur, Malaysia.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 14958, 3/21/16.
	Mohd Ansari, 5–02 Wisma Pantai, Jalan Wisma Pantai 12200 Butterworth, Penang, Malaysia; 27–G Lorong Kelasah 2, Tamen Kelasah 13700 Seberang Jaya, Penang Malaysia; and No. 9 Jalan 3/4C Desa Melawati 53100 Kuala Lumpur Malaysia	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	73 FR 54508 9/22/08. 73 FR 74001 12/5/08. 74 FR 8184. 2/24/09.
	Mohsen Torabi, a.k.a., the following one alias: —Moha Torab. 2nd Floor, Jalan 9A, Berangan, Kuala Lumpur, Malaysia; *and* 33–88 Menara Keck Seng, 203 Jalan Bukit Bintang, Kuala Lumpur, Malaysia; *and* A–17–8 Tower A, Menara Atlas, Plaza Pantai 5, Jalan 4/83A, off Jalan Pantai Baru, Kuala Lumpur, Malaysia.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 14958, 3/21/16.
	Mok Chin Fan, a.k.a., Chong Chen Fah, 10A Jalan 2/137B, Resource Industrial Centre Off Jalan Kelang Lama 58000, Kuala Lumpur, Malaysia	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	75 FR 36519, 6/28/10.
	Montana Advanced Engineering Sdn Bhd., Level 26, Tower 2, Etiqa Twins 11, Jalan Pinang, Kuala Lumpur, Malaysia 50450; *and* Level 20, Menara Standard Chartered, 30 Jalan Sultan Ismail, Kuala Lumpur, Malaysia, 50250; *and* P.O. Box 4, Level 13A, Menara Park, Block D, Megan Ave. II, No 12, Jalan Yap Kwan Seng, Kuala Lumpur, Malaysia	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	78 FR 75463, 12/12/13.
	Muhamad Fazil bin Khalid, 33–88 Menara Keck Seng, 203 Jalan Bukit Bintang, Kuala Lumpur, Malaysia; *and* A–17–8 Tower A, Menara Atlas, Plaza Pantai 5, Jalan 4/83A, off Jalan Pantai Baru, Kuala Lumpur, Malaysia; *and* No. 2 Jalan 29C, Selayang Baru, Batu Caves, Selangor, Malaysia.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 14958, 3/21/16.
	Nexus Empire, a.k.a., Vast Solution 2706, Amcorp Bldg., Jalan Persiaran Barat, Petaling Jaya, Selangor, Malaysia	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	73 FR 54503, 9/22/08.
	Syarikat Penghantaran TWW Sdn Bhd, Lot C–7, Block C Mas Advance Cargo Centre KLIA Cargo Village Southern Support Zone 64000, Sepang Selangor Darul Ehsan, Malaysia.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 14958, 3/21/16.
	Vast Solution Sdn Bhd., 27–06 Amcorp Building, Jalan 18, Persiaran Barat, 46050 Petaling Jaya, Selangor, Malaysia	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	73 FR 54503, 9/22/08.
	VTE Industrial Automation Sdn Bhd, 97C, Jalan Kenari 23, Puchong Jaya, Puchong, Selangor, Malaysia; *and* 45–02, Jalan Kenari 19A, Puchong Jaya, Puchong, Selangor, 47100 Malaysia.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	73 FR 54508, 9/22/08. 76 FR 78146, 12/16/11. 77 FR 58006, 9/19/12.

Country	Entity	License requirement	License review policy	FEDERAL REGISTER citation
NETHERLANDS	All Industrial International, Knobbelswaansingel 19, 2496 LN, The Hague, Netherlands; *and* Breukelensestraat 44, 2574 RC, The Hague, Netherlands.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 14958, 3/21/16.
	Kapil Raj Arora, Breukelensestraat 44, 2574 RC, The Hague, Netherlands; *and* Knobbelswaansingel 19, 2496 LN, The Hague, Netherlands.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 14958, 3/21/16.
NORWAY	Gunther Migeotte, Titangata 1, N–1630 Gamle, Fredrikstad, Norway; and H. Evjes vei 8A, Gressvik, Norway; and Holsneset 19, 6030 Langevag, Norway; and Titangata 1, 1630 Fredrikstad, Norway. (See alternate address under South Africa)	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	75 FR 36519, 6/28/10.
	Icarus Design AS, Titangata 1 N–1630 Gamle, Fredrikstad, Norway	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	75 FR 36519, 6/28/10.
PAKISTAN	Abdul Qader Khan Research Laboratories (AQKRL), a.k.a., the following seven aliases: —Abdul Qadeer Khan Research Laboratories; —Dr. A.Q. Khan Research Laboratories; —Engineering Research Laboratories (ERL);—Institute of Industrial Control Systems (IICS); —Kahuta Nuclear Facility; —Kahuta Research Facility; *and* —Khan Research Laboratories (KRL). Dhoke Nusah, Dakhli Gangal, Near Chatri Chowk, P.O. Box 1398, Rawalpindi 46000, Pakistan; *and* P.O. Box 852, Rawalpindi, Pakistan; *and* P.O. Box 502, Kahuta, Pakistan; *and* 24 Mauve Area G 9/1, GPO Box 2891, Islamabad.	For all items subject to the EAR.	Case-by-case for all items listed on the CCL. Presumption of approval for EAR99 items.	63 FR 64322, 11/19/98. 65 FR 14444, 3/17/00. 66 FR 50090, 10/1/01. 77 FR 58006, 9/19/12.
	Abdul Satar Ghoura, 127–128, Times Center, Saddar Road, Peshawar, Pakistan; and House Number 32, F–2, Khusal Khan Khattak Road, University Town, Peshawar, Pakistan. (See alternate addresses under Afghanistan).	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	76 FR 71869, 11/21/11.
	Advanced Engineering Research Organization (AERO), Lub Thatoo Hazara Road, The Taxila district, Rawalpindi, Pakistan.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 56003, 9/18/14.
	Ahad International, Suite #5–6, 2nd Floor, Empress Tower, Empress Road, Lahore-54000, Pakistan; *and* 11–12–13, 2nd Floor, Nomro Center, Badami Bagh, Lahore, Pakistan.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 90714, 12/15/16.
	Air Weapons Complex (AWC), AWC: E–5, Officers Colony, Wah Cantt, Punjab, Pakistan.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 90714, 12/15/16.
	Al Technique Corporation of Pakistan, Ltd. (ATCOP), 4th Floor, Dodhy Plaza, 52 Jinnah Avenue, P.O. Box 1878, Islamabad, Pakistan.	For all items subject to the EAR.	Case-by-case for all items listed on the CCL. Presumption of approval for EAR99 items.	63 FR 64322, 11/19/98. 65 FR 14444, 3/17/00. 66 FR 50090, 10/1/01. 77 FR 58006, 9/19/12.

Country	Entity	License requirement	License review policy	FEDERAL REGISTER citation
	Allied Trading Co., a.k.a., the following alias: —UCB Arcade. 2, Wazir Mansion, main Aiwan-e-tijarat Road, Boulton Market, Karachi–74000, Karachi, Pakistan (See alternate address under UCB Arcade in Uganda).	For all items subject to the EAR.	Case-by-case for all items listed on the CCL. Presumption of approval for EAR99 items.	63 FR 64322, 11/19/98. 65 FR 14444, 3/17/00. 66 FR 50090 10/1/01. 77 FR 58006, 9/19/12.
	Allied Trading Co	For all items subject to the EAR.	Case-by-case for all items listed on the CCL. Presumption of approval for EAR99 items.	63 FR 64322, 11/19/98. 65 FR 14444, 3/17/00. 66 FR 50092, 10/1/01.
	ANZ Importers and Exporters, Islamabad	For all items subject to the EAR.	Case-by-case for all items listed on the CCL. Presumption of approval for EAR99 items.	63 FR 64322, 11/19/98. 65 FR 14444, 3/17/00. 66 FR 50092, 10/1/01.
	Azad Motors Property Choice, a.k.a., the following four aliases: —Peshawar Master Azad Motors; —Peshawar Motors Complex; —Karakoram Azad Motors; *and* —Azad Cars Main GT Road, Hajji Camp, Peshawar, Pakistan.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	80 FR 8527, 2/18/15.
	Azam Electronics, a.k.a., the following two aliases: —Mohammad Azam Electronics, *and* —Akram Dish TV Satellite Center, Chaman, Killa, Abdullah District, Baluchistan Province, Pakistan	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	77 FR 71098, 11/29/12.
	Defense Science and Technology Organization (DESTO), a.k.a., the following two aliases: —Defense Science and Technology Center; *and* —Chaklala Defense Science and Technology Organization. 182 Sir Syed Road, Chaklala Cantt, Rawalpindi 46200, Pakistan; *and* Headquarters, Chakklala Cantt, Rawalpindi, 46200, Pakistan.	For all items subject to the EAR.	Case-by-case for all items listed on the CCL. Presumption of approval for EAR99 items.	63 FR 64322, 11/19/98. 65 FR 14444, 3/17/00. 66 FR 50090, 10/1/01. 77 FR 58006, 9/19/12.
	Engineering Solutions Pvt. Ltd., 726, G–11/2. Ibne-Sina Road, Islamabad, Pakistan.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 90714, 12/15/16.
	Farzad Fazil Karim, a.k.a., the following one alias: —Ahmad Farzad. E3 Gul market Street 8, Hayatabad, Pakistan; and 122, First floor, Gul Haji Plaza, Peshawar, Pakistan;	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	76 FR 71869, 11/21/11.
	Fazal Rahim Farid, a.k.a., the following three aliases: —Fazel Rahim Farid; —Farid; and —Engineer Idris. 122, First Floor, Gul Haji Plaza, Peshawar, Pakistan; and House Number 32, F–2, Khusal Khan Khattak Road, University Town, Peshawar, Pakistan. (See alternate addresses under Afghanistan).	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	76 FR 71869, 11/21/11.

Country	Entity	License requirement	License review policy	FEDERAL REGISTER citation
	Future Systems Pvt. Ltd., 10 Main Double Road F11/3, Islamabad, Pakistan.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 56003, 9/18/14.
	Hakim Noor, a.k.a., the following one alias: —Hakim Nur. Sarafa Shop #10, Noor Muhammad Market, Miram Shaw, Pakistan; *and* Mir Nasir Plaza, Sikandar Pura, Pakistan.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	80 FR 8527, 2/18/15.
	Hakim Nur Sarafa, a.k.a., the following two aliases: —Noor Muhammad Market; *and* —Haji Hakim Noor Saraf. Sarafa Shop #10, Noor Muhammad Market, Miram Shaw, Pakistan; *and* Market Shop Number 10, Sarafa Bazar Miram Shaw, Pakistan.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	80 FR 8527, 2/18/15.
	High Technologies, Ltd. (HTL), a.k.a., the following alias: —High Technology, Ltd. Islamabad.	For all items subject to the EAR.	Case-by-case for all items listed on the CCL. Presumption of approval for EAR99 items.	63 FR 64322, 11/19/98. 65 FR 14444, 3/17/00. 66 FR 50090, 10/1/01. 77 FR 58006, 9/19/12.
	IKAN Engineering Services, a.k.a., the following one alias: —IKAN Sourcing. 34–KM Shamki Bhattan Sultan Road, Lahore, Pakistan; *and* Plot 7, I–11/3 Markaz, Islamabad, Pakistan.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 56003, 9/18/14.
	Irum Mehboob Raja, Pakistan Institute of Nuclear Science and Technology (PINSTECH), Nilore, Islamabad, Pakistan.	For all items subject to the EAR.	Case-by-case for all items listed on the CCL. Presumption of approval for EAR99 items.	79 FR 56003, 9/18/14.
	Jalaluddin Haqqani, a.k.a., the following seven aliases: —General Jalaluddin; —Haqqani Sahib; —Maulama Jalaluddin; —Maulawi Haqqani; —Molvi Sahib; —Mulawi Jalaluddin; *and* —Mullah Jalaluddin. Miram Shah, Pakistan.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	77 FR 25055, 4/27/12.
	Khalil Zadran, a.k.a., the following eight aliases: —Samar Gul Khalil; —Khalil Samar Gul; —Samer Khalil; —Samer Gul Khalil; —Khlil Khalil; —Kalil Khalil; —Khalil Khualil; *and* —Haji Khalil. House 14, Street 13, Sector F–7/2, Islamabad, Pakistan; *and* House 20–B, Main College Road, Sector F–7/2, Islamabad, Pakistan (See alternate address in Afghanistan).	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	77 FR 25057, 4/27/12.
	Khalil Zadran Company, a.k.a., the following alias: —Khalil Construction. Pakistan (See alternate address in Afghanistan).	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	77 FR 25057, 4/27/12.

Country	Entity	License requirement	License review policy	FEDERAL REGISTER citation
	Kurshid Ghoura, a.k.a., the following two aliases: —Kurshed Ghoura; and —Kursheed Ghoura. 127–128, Times Center, Saddar Road, Peshawar, Pakistan; and House Number 32, F–2, Khusal Khan Khattak Road, University Town, Peshawar, Pakistan. (See alternate addresses under Afghanistan).	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	76 FR 71869, 11/21/11.
	Lapcom Computer Stores, 122, First Floor, Gul Haji Plaza, Peshawar, Pakistan. (See alternate address under Afghanistan).	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	76 FR 71869, 11/21/11.
	Lastech Associates, Islamabad	For all items subject to the EAR.	Case-by-case for all items listed on the CCL. Presumption of approval for EAR99 items.	63 FR 64322, 11/19/98. 65 FR 14444, 3/17/00. 66 FR 50092, 10/1/01.
	LT Engineering and Trade Services (Pvt) Ltd. (LTE), Lub Thatoo, Abbotabad Road, Hasan Abdal, Pakistan; *and* 30 Nazimud din Road, F–10/4, Islamabad, Pakistan.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 56003, 9/18/14.
	Machinery Master Enterprises Ltd. (MME), Islamabad.	For all items subject to the EAR.	Case-by-case for all items listed on the CCL. Presumption of approval for EAR99 items	63 FR 64322, 11/19/98. 65 FR 14444, 3/17/00. 66 FR 50090, 10/1/01. 77 FR 58006, 9/19/12.
	Maple Engineering Pvt. Ltd. Consultants, Importers and Exporters, Islamabad.	For all items subject to the EAR.	Case-by-case for all items listed on the CCL. Presumption of approval for EAR99 items	63 FR 64322, 11/19/98. 65 FR 14444, 3/17/00. 66 FR 50090, 10/1/01. 77 FR 58006, 9/19/12.
	Maritime Technology Complex (MTC), MTC: Plot 94, Karachi, Pakistan; *and* MTC: System Division, PN Dockyard, Karachi, Pakistan.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 90714, 12/15/16.
	Mohammad Azam, a.k.a, —Mohammad Akram, Chaman, Killa, Abdullah District, Baluchistan Province, Pakistan	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	77 FR 71098, 11/29/12.
	Muhammad Halim Ghoura, 127–128, Times Center, Saddar Road, Peshawar, Pakistan, and House Number 32, F–2, Khusal Khan Khattak Road, University Town, Peshawar, Pakistan. (See alternate addresses under Afghanistan).	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	76 FR 71869, 11/21/11.
	National Engineering and Scientific Commission (NESCOM), NESCOM Head Quarter, Plot #94, Sector H–11/4, Islamabad, Pakistan.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 90714, 12/15/16.
	Nazir and Sons International, 2nd Floor, Pracha Plaza, Near Municipal Committee Office Road, Taxila, Pakistan.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 56003, 9/18/14.
	New Auto Engineering (NAE), NAE: 72, Industrial Area, Peshawar Road, Rawalpindi, Pakistan.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 90714, 12/15/16.

Country	Entity	License requirement	License review policy	FEDERAL REGISTER citation
	Ologh Beg International Forwarders Ltd., 127–128, Times Center, Saddar Road, Peshawar, Pakistan; and House Number 32, F–2, Khusal Khan Khattak Road, University Town, Peshawar, Pakistan. (See alternate address under Afghanistan).	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	76 FR 71869, 11/21/11.
	Orient Importers and Exporters, Islamabad	For all items subject to the EAR.	Case-by-case for all items listed on the CCL. Presumption of approval for EAR99 items.	63 FR 64322, 11/19/98. 65 FR 14444, 3/17/00. 66 FR 50092, 10/1/01.
	Orion Eleven Pvt. Ltd., Street 11 Valley Road, Westridge Rawalpindi, Pakistan.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 56003, 9/18/14.
	Pakistan Atomic Energy Commission (PAEC), a.k.a., the following one alias: —Power Plant Workshops, P.O. Box 1114, Islamabad; *and* the following four subordinate entities: —National Development Complex (NDC), a.k.a., the following two aliases: —National Development Centre; *and* —National Defense Complex. Fateh Jang, Punjab, Rawalpindi, Pakistan; *and* P.O. Box 2216, Islamabad, Pakistan; —Pakistan Institute for Nuclear Science and Technology (PINSTECH), Nilore, Islamabad; —Nuclear reactors (including power plants), fuel reprocessing and enrichment facilities, all uranium processing, conversion and enrichment facilities, heavy water production facilities and any collocated ammonia plants; *and* —National Institute of Lasers and Optronics (NILOP), a.k.a., the following one alias: —National Institute of Lasers. Lethrar Road, Islamabad, 45650, Pakistan; *and* Lethrar Road, Nilore, 45650, Islamabad, Pakistan; *and* Hetrat Road, Nilore, 45650, Islamabad, Pakistan; *and*House #453 St., #16 Sector, Islamabad, Pakistan.	For all items subject to the EAR.	Case-by-case for all items listed on the CCL. Presumption of approval for EAR99 items.	63 FR 64322, 11/19/98. 65 FR 14444, 3/17/00. 66 FR 50090, 10/1/01. 77 FR 58006, 9/19/12. 79 FR 56003, 9/18/14.
	People's Steel Mills, Javedan Nagar, Manghopir Road, Karachi 75890, Pakistan.	For all items subject to the EAR.	Case-by-case for all items listed on the CCL. Presumption of approval for EAR99 items.	63 FR 64322, 11/19/98. 65 FR 14444, 3/17/00. 66 FR 50090, 10/1/01. 77 FR 58006, 9/19/12.
	People's Steel Mills, Karachi	For all items subject to the EAR.	Case-by-case for all items listed on the CCL. Presumption of approval for EAR99 items.	63 FR 64322, 11/19/98. 65 FR 14444, 3/17/00. 66 FR 50093, 10/1/01.

Country	Entity	License requirement	License review policy	FEDERAL REGISTER citation
	Prime International	For all items subject to the EAR.	Case-by-case for all items listed on the CCL. Presumption of approval for EAR99 items.	63 FR 64322, 11/19/98. 65 FR 14444, 3/17/00. 66 FR 50093, 10/1/01.
	Sher Qadir, Darpa Khel Village, Mirim Shaw, Pakistan.	For all items subject to the EAR.	Presumption of denial	80 FR 8527, 2/18/15.
	Space and Upper Atmosphere Research Commission (SUPARCO), a.k.a., the following alias: —Space and Upper Atmospheric Research Commission, Sector 28, Gulzar-e-Hijiri, Off University Road, P.O. Box 8402, Karachi 75270.	For all items subject to the EAR.	Case-by-case for all items listed on the CCL. Presumption of approval for EAR99 items.	63 FR 64322, 11/19/98. 65 FR 14444, 03/17/00. 66 FR 50090, 10/01/01. 77 FR 58006, 9/19/12.
	Technical Services, Islamabad	For all items subject to the EAR.	Case-by-case for all items listed on the CCL. Presumption of approval for EAR99 items.	63 FR 64322, 11/19/98. 65 FR 14444, 3/17/00. 66 FR 50093, 10/1/01.
	The Tempest Trading Company, Islamabad	For all items subject to the EAR.	Case-by-case for all items listed on the CCL. Presumption of approval for EAR99 items.	63 FR 64322, 11/19/98. 65 FR 14444, 3/17/00. 66 FR 50093, 10/1/01.
	Unique Technical Promoters	For all items subject to the EAR.	Case-by-case for all items listed on the CCL. Presumption of approval for EAR99 items.	63 FR 64322, 11/19/98. 65 FR 14444, 3/17/00. 66 FR 50093, 10/1/01.
	Universal Tooling Services, a.k.a., the following three aliases: —Forward Design and Manufacturing; —MSM Enterprises; *and* —Technopak Engineering. Deen Plaza, 68/62, Adamjee Road, Saddar P.O. Box 1640, GPO Rawalpindi, Pakistan; *and* G–7, Nimra Centre 7, Badami Bagh, Lahore, Pakistan; *and* 31/B Faisal Town, Lahore, Punjab, Pakistan; *and* Model Town, HMC Road, Taxila, Pakistan.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial..	81 FR 90714, 12/15/16.
	Veteran Avia LLC, a.k.a., the following one alias: —Veteran Airline Room No. 1, ALC Building, PIA Cargo Complex Jiap, Karachi, Pakistan (See also addresses under Armenia, Greece, India, and U.K.)	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 56003, 9/18/14. 81 FR 8829, 2/23/16.
	Wah Chemical Product Plant, a.k.a., the following alias: —Wah Nobel Chemicals Limited, Wah Cantonment, Rawalpindi, Pakistan.	For all items subject to the EAR.	Case-by-case for all items listed on the CCL. Presumption of approval for EAR99 items.	63 FR 64322, 11/19/98. 66 FR 50090, 10/01/01. 77 FR 58006, 9/19/12.
	Wah Munitions Plant, Wah Cantonment, Rawalpindi, Pakistan.	For all items subject to the EAR..	Case-by-case for all items listed on the CCL. Presumption of approval for EAR99 items.	63 FR 64322, 11/19/98. 65 FR 14444, 3/17/00. 66 FR 50090, 10/1/01. 77 FR 58006, 9/19/12.

Country	Entity	License requirement	License review policy	FEDERAL REGISTER citation
PANAMA	Lerma Trading S.A., Calle 53a, Este, Panama	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	80 FR 80646, 12/28/15.
	Wheels Incorporated, P.O. Box 6—2875, El Dorado, Panama (See alternate address under Israel).	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 40178, 6/21/16.
PHILIPPINES	Warren Sumaylo, 053 E Luna Street, Bgry Sikatuna, Butuan City, Philippines.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 57454, 8/23/16.
ROMANIA	Southeast Trading Oy, a.k.a., the following one alias: —Southeast Trading LTD. Bucharest, Romania. (See also addresses under Finland and Russia)	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	80 FR 52968, 9/2/15.
RUSSIA	Abris, 6 Aptekarskiy Prospeckt, Office 710, St. Petersburg, Russia 197376; *and* 30 16th Parkovaya St, Office 319, Moscow, Russia 105484.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Abris-KEY, 6 Aptekarskiy Prospeckt, Office 710, St. Petersburg, Russia 197376; *and* 30 16th Parkovaya St, Office 319, Moscow, Russia 105484.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Abris-Technology, 6 Aptekarskiy Prospeckt, Office 710, St. Petersburg, Russia 197376; *and* 30 16th Parkovaya St, Office 319, Moscow, Russia 105484.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Achim Development, OOO, a.k.a., the following two aliases: —Achim Development; *and* —Obshchestvo S Ogranichennoi Otvetstvennostyu 'Achim Development'. d.7 ul.Promyshlennaya, Novy Urengoi, Yamalo-Nenetski a.o. 629306, Russia.	For all items subject to the EAR when used in projects specified in § 746.5 of the EAR.	See § 746.5(b) of the EAR.	81 FR 61601, 9/7/16.
	Aleksander Cheremshin, Ulitsa Mitinskaya 36/1, Moscow, Russia 125430; *and* Ordzhonikidze 10, Moscow, Russia 119071; *and* 10 Ordjonikidze Street, Moscow, Russia 119071; *and* Ulitsa Polyany 9/6, Moscow, Russia 117042; *and* Poljani str., 9–6, 117042, Moscow, Russia; *and* 9 Polyany Street, Suite 6, Moscow, Russia 117042; *and* 33 Ulitsa Marshala Tukhachevskogo, Suite 231, Moscow, Russia 123154; *and* Bolshaya Semenovskaya, 40/505, Moscow, Russia 107023; *and* Ulitsa Metallurgov, 29, Str. 1, Komnata Pravleni, Moscow, Russia 111401.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.

Country	Entity	License requirement	License review policy	FEDERAL REGISTER citation
	Aleksander Kuznetsov, a.k.a., the following one alias: —Alexander Kuznetsov, Ordzhonikidze 10, Moscow, Russia 119071; *and* 10 Ordjonikidze Street, Moscow, Russia 119071; *and* Ulitsa Polyany 9/6, Moscow, Russia 117042; *and* Poljani str., 9–6, 117042, Moscow, Russia; *and* 9 Polyany Street, Suite 6, Moscow, Russia 117042; *and* 33 Ulitsa Marshala Tukhachevskogo, Suite 231, Moscow, Russia 123154; *and* Bolshaya Semenovskaya, 40/505, Moscow, Russia 107023; *and* Ulitsa Metallurgov, 29, Str. 1, Komnata Pravleni, Moscow, Russia 111401.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Aleksey Markov, 5A North Street, Saransk, Republic of Mordovia, Russia 43006; *and* 53 Sherbakovskaya Street, Building 3, Office 509, 105318 Moscow, Russia; *and* 26 General Belov St Office 415, Moscow, Russia 115583; *and* 26 Generala Belova Street, Office 415, Moscow, Russia 115583; *and* 60 Bolshevistskaya St., Office 905, Saransk, Republic of Mordovia, Russia; *and* 60 Bolshevistskaya St., Office 910, Saransk, Republic of Mordovia, Russia; *and* 5a Severnaya Street, Saransk, Republic of Mordovia, Russia.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Alex Pikhtin, a.k.a., the following one alias: —Alexander Pikhtin, Pr. Yuria Gagarina 2, St. Petersburg, Russia 196105.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Alexander Georgievich Mallabiu, 25 Red Cadets Street Letter H, Office Block 2, St. Petersburg, Russia 99034; *and* 130–17 Nevskiy Ave., Saint Petersburg, Russia 191036; *and* 16 Linia V.O., 7 Office 43, St. Petersburg, Russia 99034; *and* Krestovski River Quay 3, Suite 42, St. Petersburg, Russia 197376.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Alexander Kuznetsov, Ulitsa Artyukhina 6B, 106, Moscow, Russia.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Alexander V. Brindyuk, a.k.a., the following one alias: —Aleksander Brendyuk, Pr. Yuria Gagarina 2, Office 801, St. Petersburg, Russia 196105.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.

Country	Entity	License requirement	License review policy	FEDERAL REGISTER citation
	Alexander Vedyashkin, 5A North Street, Saransk, Republic of Mordovia, Russia 43006; *and* 53 Sherbakovskaya Street, Building 3, Office 509, 105318 Moscow, Russia; *and* 26 General Belov St Office 415, Moscow, Russia 115583; *and* 26 Generala Belova Street, Office 415, Moscow, Russia 115583; *and* 60 Bolshevistskaya St., Office 905, Saransk, Republic of Mordovia, Russia; *and* 60 Bolshevistskaya St., Office 910, Saransk, Republic of Mordovia, Russia; *and* 5a Severnaya Street, Saransk, Republic of Mordovia, Russia.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Alexey Ivanov Zhuravlev, a.k.a., the following one alias: —Alexy Ivanov, Pr. Yuria Gagarina 2, Office 801, St. Petersburg, Russia 196105; *and* Pr. Yuria Gagarina 1, Office 230, St. Petersburg, Russia 196105; *and* Pr. Yuri Gagarin 1, Office 230, St. Petersburg, Russia 196105.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Alexey Kulakov, Naberezhnaya Chernoi Rechki 61–1, St. Petersburg, Russia 197342; *and* Naberegnaja Chernoj Rechki 61–1, 197342, Saint Petersburg, Russia.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Alexey Polynkov, 471–4–98 Shosse Entuziastov, Moscow, Russia.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	All-Russian Scientific Research Institute of Technical Physics (VNIITF), a.k.a., the following eight aliases: —Vserossiyskiy Nauchno-Issledovatelskiy Institut Tekhnicheskoy Fiziki; —Russian Federal Nuclear Center-VNIITF (RFNC–VNIITF); —Kasli Nuclear Weapons Development Center; —Institute of Technical Physics; —Zababakhin Institute; —ARITP (All Russian Institute for Technical Physics); —Federal State Unitary Enterprise Russian Federal Nuclear Center—Academician E.I. Zababkhin All-Russian Scientific Research Institute of Technical Physics (FGUPRFYaTs-VNIITF) —Chelyabinsk-70, (Address: P.O. Box 245, 456770, Snezhinsk, Chelyabinsk Region Russia); *and* any nuclear-related entities, institutes, or centers located in Snezhinsk.	For all items subject to the EAR.	Case-by-case basis ..	62 FR 35334, 6/30/97 66 FR 24267, 5/14/01 75 FR 78883, 12/17/10 76 FR 30000, 5/24/11.

Country	Entity	License requirement	License review policy	FEDERAL REGISTER citation
	All-Russian Scientific Research Institute of Experimental Physics (VNIIEF), a.k.a., the following nine aliases: —Vserossiyskiy Nauchno-Issledovatelskiy Institut Eksperimentalnoy Fiziki; —Russian Federal Nuclear Center-VNIIEF (RFNC–VNIIEF); —Institute of Experimental Physics; —ARIEP (All Russian Institute for Experimental Physics); —Khariton Institute; —Sarov Nuclear Weapons Plant; —Avangard Electromechanical Plant; —Federal State Unitary Enterprise Russian Federal Nuclear Center—All Russian Scientific Research Institute of Experimental Physics (FGUPRFNCs VNIIEF) —Arzamas-16, (Address: 37 Mira Ave. Sarov, Nizhny Novgorod Region, 607188 Russia); and any nuclear-related entities, institutes or centers located in Sarov (Kremlev).	For all items subject to the EAR.	Case-by-case basis ..	62 FR 35334, 6/30/97 66 FR 24267, 5/14/01 75 FR 78883, 12/17/10 76 FR 30000, 5/24/11.
	Almaz-Antey Air Defense Concern Main System Design Bureau, JSC (a.k.a., A.A. Raspletin Main System Design Bureau; a.k.a. Almaz-Antey GSKB; a.k.a. Almaz-Antey GSKB Imeni Academician A.A. Raspletin; a.k.a. Almaz-Antey MSDB; a.k.a. Almaz-Antey PVO 'Air Defense' Concern Lead Systems Design Bureau OAO 'Open Joint-Stock Company' Imeni Academician A.A. Raspletin; a.k.a. Golovnoye Sistemnoye Konstruktorskoye Byuro Open Joint-Stock Company of Almaz-Antey PVO Concern Imeni Academician A.A. Raspletin; a.k.a. Joint Stock Company Almaz-Antey Air Defense Concern Main System Design Bureau, Named by Academician A.A. Raspletin; a.k.a. Joint Stock Company Almaz-Antey Air Defense Concern Main System Design Bureau; a.k.a. Almaz-Antey; a.k.a. JSC 'Almaz-Antey' MSDB, f.k.a., Otkrytoe Aktsionernoe Obshchestvo Nauchno Proizvodstvennoe Obedinenie Almaz Imeni Akademika A.A. Raspletina; a.k.a. GSKB) Address: 16–80, Leningradsky Prospect, Moscow 125190, Russia	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 55612, 9/17/14.
	Anastasya Arkhipova, a.k.a., the following one alias: —Anatasiya Arkhipova, 26 General Belov St, Office 415, Moscow, Russia 115583; *and* 26 Generala Belova Street, Office 415, Moscow, Russia 115583; *and* 53 Sherbakovskaya Street, Building 3, Office 509, 105318 Moscow, Russia.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.

Country	Entity	License requirement	License review policy	FEDERAL REGISTER citation
	Andrey Gruzdew, 25 Red Cadets Street Letter H, Office Block 2, St. Petersburg, Russia 99034; *and* 130–17 Nevskiy Ave., Saint Petersburg, Russia 191036; *and* 16 Linia V.O., 7 Office 43, St. Petersburg, Russia 99034; *and* Krestovski River Quay 3, Suite 42, St. Petersburg, Russia 197376.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Andrey V Gromadskih, 32 Korablestroiteley St., building #1, Apt #119, St. Petersburg, Russia 199397; *and* Zastavskaya St. 32A, St. Petersburg, Russia 196084; *and* Zastavskaya St. 15–B, St. Petersburg, Russia 196084; *and* Raketnyy Bul'var 15, Moscow, Russia 129164; *and* 16 Raketnyy Bul'var, Moscow, Russia 129164.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Andrey Vladimirovich Saponchik, 6 Aptekarskiy Prospekt, Office 710, St. Petersburg, Russia 197376; *and* Naberezhnaya Chernoi Rechki 61–1, St. Petersburg, Russia 197342; *and* 7 Belovodskiy Ln, St. Petersburg, Russia 194044; *and* Belovodskyi Per, 7, St. Petersburg, Russia 194044; *and* Naberegnaja Chernoj Rechki 61–1, 197342, Saint Petersburg, Russia; *and* 16 Parkovaya 30, Office 319, Moscow, Russia 105484.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Angstrem-M, Dom 4, Stroennie 3, Proezd 4806, Zelenograd, Russia 124460.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 61601, 9/7/16.
	Anna V Libets, Zastavskaya St. 32A, St. Petersburg, Russia 196084; *and* Zastavskaya St. 15–B, St. Petersburg, Russia 196084; *and* Raketnyy Bul'var 15, Moscow, Russia 129164; *and* 16 Raketnyy Bul'var, Moscow, Russia 129164.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Anton Khramov, 86 N Prospect Obukhovskoy Oborony, St. Petersburg, Russia 190000.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Anton Lebedev, Pr. Yuria Gagarina 2, Office 801, St. Petersburg, Russia 196105; *and* Pr. Yuria Gagarina 1, Office 230, St. Petersburg, Russia 196105; *and* Pr. Yuri Gagarin 1, Office 230, St. Petersburg, Russia 196105.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Anton Yurevich Alekseyev, Ulitsa Mitinskaya 30/4, Moscow, Russia 123430.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	AO 'Institute Giprostroymost—Saint-Petersburg' (f.k.a., Institut Giprostroimost-Sankt-Peterburg, ZAO; *and* ZAO 'Institute Giprostroymost Saint-Petersburg'), a.k.a., the following three aliases: —AO 'Institute Giprostroymost—Sankt-Peterburg'; —JSC 'Institute Giprostroymost—Saint-Petersburg'; *and* —JSC 'Institute Giprostroymost—Sankt-Peterburg'. 7 Yablochkova Street, St. Petersburg 197198, Russia.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 61601, 9/7/16.

Country	Entity	License requirement	License review policy	FEDERAL REGISTER citation
	APEX, a.k.a., the following four aliases: —APEKS; —APEX Systems; —OOO APEX; *and* —APEX Ltd., 26 General Belov St Office 415, Moscow, Russia 115583; *and* 26 Generala Belova Street, Office 415, Moscow, Russia 115583; *and* 53 Sherbakovskaya Street, Building 3, Office 509, Moscow, Russia 105318.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	APEX St. Petersburg, 140 Leninsky Prospekt, Office 57, St. Petersburg, Russia.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	APEX Yekaterinburg, 106 Kuybyshev Str, Office 68, Yekaterinburg, Russia; *and* Ulitsa 9 March, D. 120B, Office 312 620100, Yekaterinburg, Russia; *and* 106 K 68 ul Kuibysheva, 620100, Yekaterinburg, Russia.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Aquanika, a.k.a., the following five aliases: —Aquanika LLC, *and* —LLC Russkoye Vremya, *and* —Obshchestvo S Organichennoi Otvetstvennostyu 'Russkoe Vremya', *and* —Russkoe Vremya OOO, *and* —Russkoye Vremya LLC. 47A Sevastopolski Ave., of. 304, Moscow 117186, Russia; *and* 1/2 Rodnikovaya ul., Savasleika s., Kulebakski raion, Nizhegorodskaya oblast 607007, Russia.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 24561, 5/1/14.
	Arsenal, 26 General Belov St, Office 19, Moscow, Russia 115583; *and* 26 Generala Belova Street, Office 19, Moscow, Russia 115583.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Atrilor, Ltd, a.k.a., the following two aliases: —Atrilor LLC; *and* —OOO Atrilor, 36 Mitinskaya St, Building 1, Office 406, Moscow, Russia 125430; *and* 53 Shcherbakovskaya Street, Moscow 105187.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Avia Group LLC, a.k.a., the following one alias: —Avia Group Ltd Terminal Aeroport Sheremetyevo Khimki, 141400 Moskovskaya obl., Russia	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 24561, 5/1/14.
	Avia Group Nord LLC, 17 A, Startovaya St., Saint Petersburg, Russia	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 24561, 5/1/14.

Country	Entity	License requirement	License review policy	FEDERAL REGISTER citation
	Avia Group Terminal Limited Liability Company, a.k.a., the following three aliases: —AG Terminal OOO; —LLC AG Terminal; *and* —Obshchestvo S Ogranichennoi Otvetstvennostyu Avia Grupp Terminal, Ter. Aeroport Sheremetyevo, Khimki, Moscovskaya Oblast 141400, Russia.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	80 FR 80646, 12/28/15.
	Aviton, a.k.a., the following three aliases: —Aviton company; —For Salmi; *and* —Salmi LLC, Naberezhnaya Chernoi Rechki 61–1, St. Petersburg, Russia 197342; *and* 6 Aptekarskiy Prospect, Office 710, St. Petersburg, Russia 197376; *and* 7 Belovodskiy Ln, St. Petersburg, Russia 194044; *and* Belovodskiy Per, 7, St. Petersburg, Russia 194044; *and* Naberegnaja Chernoj Rechki 61–1, 197342, Saint Petersburg, Russia; *and* 16 Parkovaya 30, Office 319, Moscow, Russia 105484.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Best Komp Group, P.O. Box 242, St. Petersburg, Russia 196240.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Bitreit, a.k.a., the following one alias: —OOO Betreit, Neglinnaya Str., 18/1, emb.1 ''A'', Moscow, Russia.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	CJSC Sovmortrans, a.k.a., the following one alias: —Sovmortrans CJSC. Rakhmanovskiy lane, 4, bld.1, Morskoy House, Moscow 127994, Russia.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 61601, 9/7/16.
	CJSC VANKORNEFT, a.k.a., the following two aliases: —Vankorneft; *and* —ZAO Vankorneft. Dobrovolcheskoy Brigady St., 15, Krasnoyarsk Territory 660077, Russia.	For all items subject to the EAR when used in projects specified in § 746.5 of the EAR.	See § 746.5(b) of the EAR.	80 FR 52968, 9/2/15.
	CJSC Zest, a.k.a., the following one alias: —Zest Leasing pr. Medikov 5, of. 301, St. Petersburg, Russia; *and* 2 Liter a Pl. Rastrelli, St. Petersburg, 191124 Russia	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 24561, 5/1/14.
	Daltransgaz, OAO, a.k.a., the following two aliases: —Daltransgaz; *and* —Otkrytoe Aktsionernoe Obshchestvo 'Daltransgaz'. d. 1 ul.Solnechnaya S. Ilinka, Khabarovski Raion Khabarovski krai 680509, Russia.	For all items subject to the EAR when used in projects specified in § 746.5 of the EAR.	See § 746.5(b) of the EAR.	81 FR 61601, 9/7/16.
	Denis A Kizha, Pulkovskoe Shosse, 20–4 #159, St. Petersburg, Russia 196158; *and* Zastavskaya St. 32A, St. Petersburg, Russia 196084; *and* Zastavskaya St. 15–B, St. Petersburg, Russia 196084; *and* Raketnyy Bul'var 15, Moscow, Russia 129164; *and* 16 Raketnyy Bul'var, Moscow, Russia 129164.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.

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	DJSC Factory Krasnoe Znamya, a.k.a., the following five aliases: —OJSC Factory Krasnoe Znamya; —OAO Zavod Krasnoe Znamya; —AO Krasnoye Znamya; —Krasnoye Znamya Plant OAO; *and* —Krasnoye Znamya Plant JSC Shabulina Travel 2a, Ryazan, 390043, Russia.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 94968, 12/27/16.
	DM Link, P.O. Box 242, St. Petersburg, Russia 196240.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Dmitri Ezhov, 53 Sherbakovskaya Street, Building 3, Office 509, 105318 Moscow, Russia; *and* 26 General Belov Str, Office 1010, Moscow, Russia 115583; *and* 26 Generala Belova Street, Office 1010, Moscow, Russia 115583; *and* 26 General Belov St Office 415, Moscow, Russia 115583; *and* 26 Generala Belova Street, Office 415, Moscow, Russia 115583.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Dmitriy Averichev, Naberezhnaya Chernoi Rechki 61–1, St. Petersburg, Russia 197342; *and* Naberegnaja Chernoj Rechki 61–1, 197342, Saint Petersburg, Russia.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Dmitriy Moroz, Pr. Yuria Gagarina 2, Office 801, St. Petersburg, Russia 196105.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Dmitriy Rakhimov, 26 General Belov Str Office 1010, Moscow, Russia 115583; *and* 26 Generala Belova Street, Office 1010, Moscow, Russia 115583.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Dmitriy V Lukhanin, 25 Red Cadets Street Letter H, Office Block 2, St. Petersburg, Russia 99034; *and* 130–17 Nevskiy Ave., Saint Petersburg, Russia 191036; *and* 16 Linia V.O., 7 Office 43, St. Petersburg, Russia 99034; *and* Krestovski River Quay 3, Suite 42, St. Petersburg, Russia 197376.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Dmitry Andreev, 4 Savelkinskiy Dr., Suite 511–512, Zelenograd, Russia 124482.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Dmitry Kochanov, 4 Pokhodnyy Dr, Bldg 1, 4th Floor, Room 417, Moscow, Russia 125373.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Dmitry M Rodov, Zastavskaya St. 32A, St. Petersburg, Russia 196084; *and* Zastavskaya St. 15–B, St. Petersburg, Russia 196084; *and* Raketnyy Bul'var 15, Moscow, Russia 129164; *and* 16 Raketnyy Bul'var, Moscow, Russia 129164.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.

Country	Entity	License requirement	License review policy	FEDERAL REGISTER citation
	Dmitry Shegurov, a.k.a., the following one alias: —Dmitriy Shegurov, 53 Sherbakovskaya Street, Building 3, Office 509, 105318 Moscow, Russia; *and* 26 General Belov Str, Office 1010, Moscow, Russia 115583; *and* 26 Generala Belova Street, Office 1010, Moscow, Russia 115583; *and* 26 General Belov St Office 415, Moscow, Russia 115583; *and* 26 Generala Belova Street, Office 415, Moscow, Russia 115583; *and* 26 General Belov Str, Office 19, Moscow, Russia 115583; *and* 26 Generala Belova Street, Office 19, Moscow, Russia 115583.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Dolgoprudny Research Production Enterprise, OAO (a.k.a. olgoprudnenskoye NPP OAO; a.k.a. Dolgoprudny; a.k.a. Dolgoprudny Research Production Enterprise; a.k.a. Otkrytoe Aktsionernoe Obshchestvo Doigoprudnenskoe Nauchno Proizvodstvennoe Predpriyatie; a.k.a. OAO 'Dolgoprudny Research Production Enterprise') Address: 1 Pl. Sobina, Dolgoprudny, Moskovskaya obl. 141700 , Russia Alt Address: Proshchad Sobina 1, Dolgoprudny 141700, Russia	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 55612, 9/17/14.
	Druzhba, AO, a.k.a., the following two aliases: —Aktsionernoe Obshchestvo 'Druzhba'; *and* —Druzhba. Rogozinino, Moscow 143397, Russia.	For all items subject to the EAR when used in projects specified in § 746.5 of the EAR.	See § 746.5(b) of the EAR.	81 FR 61601, 9/7/16.
	Ekran Scientific Research Institute, FSUE, a.k.a., the following one alias: —FGUP Ekran Kirov Avenue 24, Samara 443022, Russia; *and* Krzhizhanovskogo Street 20/30, Moscow, 117218, Russia.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 94968, 12/27/16.
	Electrotekhnika LLC, 4 Savelkinskiy Dr., Suite 511–512, Zelenograd, Russia 124482; *and* 4 Yunost Square, NPZ, Suite 1–7, Zelenograd, Russia 124482; *and* 4 Yunost Square, NPZ, Apt. 1–7, Zelenograd, Russia 124482.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Elena Kuznetsova, a.k.a., the following one alias: —Yelena Vladimirovna Kuznetsova, 9 Lipovaya alleya, St. Petersburg, Russia 197183; *and* Zastavskaya St. 32A, St. Petersburg, Russia 196084; *and* Zastavskaya St. 15–B, St. Petersburg, Russia 196084; *and* Raketnyy Bul'var 15, Moscow, Russia 129164; *and* 16 Raketnyy Bul'var, Moscow, Russia 129164.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.

Country	Entity	License requirement	License review policy	FEDERAL REGISTER citation
	Elizaveta Krapivina, a.k.a., the following one alias: —Yelizaveta Krapivina, Pr. Yuria Gagarina 2, Office 801, St. Petersburg, Russia 196105.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	ElTom Research and Production Company, a.k.a., the following one alias: —NPP ElTom Garshin Street 11, Tomilino, Lyuberetsky, Moscow, 140070, Russia.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 94968, 12/27/16.
	Evgeni Viktorovich Egorov, 4 Savelkinskiy Dr., Suite 511–512, Zelenograd, Russia 124482.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	FAU 'Glavgosekspertiza Rossii', a.k.a., the following three aliases: —Federal Autonomous Institution 'Main Directorate of State Examination'; —General Board of State Expert Review; *and* —Glavgosekspertiza. Furkasovskiy Lane, building 6, Moscow 101000, Russia. (See alternate address under Crimea region of Ukraine)	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 61601, 9/7/16.
	Federal State Unitary Enterprise State Research and Production Enterprise Bazalt, a.k.a., the following three aliases: —Federal State Unitary Enterprise, State Research and Production Enterprise Bazalt; *and* —Fsue Srpe Bazalt; *and* —State Research and Production Enterprise Bazalt. 32 Velyaminovskaya, Moscow 105318, Russia.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 42455, 7/22/14.
	FKU Uprdor 'Taman', a.k.a., the following one alias: —Federal State Institution Management of Federal Roads 'Taman'. 3 Revolution Avenue, Anapa, Krasnodar 353440, Russia.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 61601, 9/7/16.
	Forward Electronics, LLC, 86 N Prospect Obukhovskoy Oborony, St. Petersburg, Russia 190000; *and* Kolomyazhsky Prospect 18, Office 4085 BC ''North House,'' St. Petersburg, Russia 197348.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	FSUE FNPC Nizhegorodsky Scientific Research Institute of Radiotechnics (NNIIRT), Shaposhnikov Street 5, Nizhny Novgorod, 603950, Russia.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 94968, 12/27/16.
	Gaz-Oil, OOO (f.k.a., Zakrytoe Aktsionernoe Obshchestvo Gaz Oil), a.k.a., the following two aliases: —Gaz-Oil; *and* —Obshchestvo S Ogranichennoi Otvetstvennostyu 'Gaz-Oil'. d.10 B ul.Nametkina, Moscow 117420, Russia.	For all items subject to the EAR when used in projects specified in § 746.5 of the EAR.	See § 746.5(b) of the EAR.	81 FR 61601, 9/7/16.

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	Gazmash, AO (f.k.a., Dochernee Otkrytoe Aktsionernoe Obshchestvo Gazmash Otkrytogo Aktsionernogo Obshchestva Gazprom), a.k.a., the following two aliases: —Aktsionernoe Obshchestvo 'Gazmash'; *and* —Gazmash. d. 54 korp. 1 litera A pomeshch prospekt Primorski, St. Petersburg 197374, Russia.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 61601, 9/7/16.
	Gazprom Dobycha Irkutsk, OOO (f.k.a., Otkrytoe Aktsionernoe Obshchestvo Irkutskgazprom), a.k.a., the following two aliases: —Gazprom Dobycha Irkutsk; *and* —Obshchestvo S Ogranichennoi Otvetstvennostyu 'Gazprom Dobycha Irkutsk'. d.14 ul.Nizhnyaya Naberezhnaya, Irkutsk, Irkutskaya obl 664011, Russia.	For all items subject to the EAR when used in projects specified in § 746.5 of the EAR.	See § 746.5(b) of the EAR.	81 FR 61601, 9/7/16.
	Gazprom Dobycha Krasnodar, OOO, a.k.a., the following two aliases: —Gazprom Dobycha Krasnodar; *and* —Obshchestvo S Ogranichennoi Otvetstvennostyu 'Gazprom Dobycha Krasnodar'. d.53 ul.Shosse Neftyanikov, Krasnodar, Krasnodarski krai 350051, Russia.	For all items subject to the EAR when used in projects specified in § 746.5 of the EAR.	See § 746.5(b) of the EAR.	81 FR 61601, 9/7/16.
	Gazprom Dobycha Kuznetsk, OOO, a.k.a., the following two aliases: —Gazprom Dobycha Kuznetsk; *and* —Obshchestvo S Ogranichennoi Otvetstvennostyu 'Gazprom Dobycha Kuznetsk'. d.4 prospekt Oktyabrski, Kemerovo, Kemerovskaya obl 650066, Russia.	For all items subject to the EAR when used in projects specified in § 746.5 of the EAR.	See § 746.5(b) of the EAR.	81 FR 61601, 9/7/16.
	Gazprom Dobycha Nadym, OOO, a.k.a., the following two aliases: —Gazprom Dobycha Nadym; *and* —Obshchestvo S Ogranichennoi Otvetstvennostyu 'Gazprom Dobycha Nadym'. d.1 ul.Zvereva, Nadym, Yamalo-Nenetski a.o. 629730, Russia.	For all items subject to the EAR when used in projects specified in § 746.5 of the EAR.	See § 746.5(b) of the EAR.	81 FR 61601, 9/7/16.
	Gazprom Dobycha Noyabrsk, OOO, a.k.a., the following two aliases: —Gazprom Dobycha Noyabrsk; *and* —Obshchestvo S Ogranichennoi Otvetstvennostyu 'Gazprom Dobycha Noyabrsk'. d.20 ul. Respubliki, Noyabrsk, Yamalo-Nenetski a.o. 629802, Russia.	For all items subject to the EAR when used in projects specified in § 746.5 of the EAR.	See § 746.5(b) of the EAR.	81 FR 61601, 9/7/16.
	Gazprom Dobycha Urengoi, OOO, a.k.a., the following two aliases: —Gazprom Dobycha Urengoy; *and* —Obshchestvo S Ogranichennoi Otvetstvennostyu 'Gazprom Dobycha Urengoi'. d.8 ul.Zheleznodorozhnaya, Novy Urengoi, Yamalo-Nenetski a.o. 629307, Russia.	For all items subject to the EAR when used in projects specified in § 746.5 of the EAR.	See § 746.5(b) of the EAR.	81 FR 61601, 9/7/16.
	Gazprom Dobycha Yamburg,OOO, a.k.a., the following two aliases: —Gazprom Dobycha Yamburg; *and* —Obshchestvo S Ogranichennoi Otvetstvennostyu 'Gazprom Dobycha Yamburg'. d.9 ul. Geologorazvedchikov, Novy Urengoi, Yamalo-Nenetski a.o 629306, Russia.	For all items subject to the EAR when used in projects specified in § 746.5 of the EAR.	See § 746.5(b) of the EAR.	81 FR 61601, 9/7/16.

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	Gazprom Energo, OOO, a.k.a., the following two aliases: —Gazprom Energo; *and* —Obshchestvo S Ogranichennoi Otvetstvennostyu 'Gazprom Energo'. 8 Korp. 1 ul.Stroitelei, Moscow 117939, Russia.	For all items subject to the EAR when used in projects specified in § 746.5 of the EAR.	See § 746.5(b) of the EAR.	81 FR 61601, 9/7/16.
	Gazprom Flot, OOO (f.k.a., Obshchestvo S Ogranichennoi Otvetstvennostyu Gazflot), a.k.a., the following two aliases: —Gazprom Flot; *and* —Obshchestvo S Ogranichennoi Otvetstvennostyu 'Gazprom Flot'. d. 12 A ul.Nametkina, Moscow 117420, Russia.	For all items subject to the EAR when used in projects specified in § 746.5 of the EAR.	See § 746.5(b) of the EAR.	81 FR 61601, 9/7/16.
	Gazprom Gaznadzor, OOO, a.k.a., the following two aliases: —Gazprom Gaznadzor; *and* —Obshchestvo S Ogranichennoi Otvetstvennostyu 'Gazprom Gaznadzor'. 41 str. 1 prospekt Vernadskogo, Moscow 119415, Russia.	For all items subject to the EAR when used in projects specified in § 746.5 of the EAR.	See § 746.5(b) of the EAR.	81 FR 61601, 9/7/16.
	Gazprom Gazobezopasnost, OOO, a.k.a., the following two aliases: —Gazprom Gazobezopasnost; *and* —Obshchestvo S Ogranichennoi Otvetstvennostyu 'Gazprom Gazobezopasnost'. d. 8 korp. 1 ul.Stroitelei, Moscow 119311, Russia.	For all items subject to the EAR when used in projects specified in § 746.5 of the EAR.	See § 746.5(b) of the EAR.	81 FR 61601, 9/7/16.
	Gazprom Geologorazvedka, OOO (f.k.a., Obshchestvo S Ogranichennoi Otvetstvennostyu Gazprom Dobycha Krasnoyarsk), a.k.a., the following two aliases: —Gazprom Geologorazvedka; *and* —Obshchestvo S Ogranichennoi Otvetstvennostyu 'Gazprom Geologorazvedka'. d.70 ul.Gertsena, Tyumen, Tyumenskaya obl. 625000, Russia.	For all items subject to the EAR when used in projects specified in § 746.5 of the EAR.	See § 746.5(b) of the EAR.	81 FR 61601, 9/7/16.
	Gazprom Inform, OOO (f.k.a., Zakrytoe Aktsionernoe Obshchestvo Informgazinvest), a.k.a., the following two aliases: —Gazprom Inform; *and* —Obshchestvo S Ogranichennoi Otvetstvennostyu 'Gazprom Inform'. d. 13 str. 3 ul.Bolshaya Cheremushkinskaya, Moscow 117447, Russia.	For all items subject to the EAR when used in projects specified in § 746.5 of the EAR.	See § 746.5(b) of the EAR.	81 FR 61601, 9/7/16.
	Gazprom Invest, OOO, a.k.a., the following two aliases: —Gazprom Invest; *and* —Obshchestvo S Ogranichennoi Otvetstvennostyu 'Gazprom Invest'. d. 6 litera D ul.Startovaya, St. Petersburg 196210, Russia.	For all items subject to the EAR when used in projects specified in § 746.5 of the EAR.	See § 746.5(b) of the EAR.	81 FR 61601, 9/7/16.
	Gazprom Kapital, OOO (f.k.a., Obshchestvo S Ogranichennoi Otvetstvennostyu Kap Infin), a.k.a., the following two aliases: —Gazprom Kapital; *and* —Obshchestvo S Ogranichennoi Otvetstvennostyu 'Gazprom Kapital'. Sosenskoe Pos, Pos. Gazoprovod, D. 101 Korp. 9, Moscow 142770, Russia.	For all items subject to the EAR when used in projects specified in § 746.5 of the EAR.	See § 746.5(b) of the EAR.	81 FR 61601, 9/7/16.

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	Gazprom Komplektatsiya, OOO, a.k.a., the following two aliases: —Gazprom Komplektatsiya; *and* —Obshchestvo S Ogranichennoi Otvetstvennostyu 'Gazprom Komplektatsiya'. 8 Korp. 1 ul.Stroitelei, Moscow 119991, Russia.	For all items subject to the EAR when used in projects specified in § 746.5 of the EAR.	See § 746.5(b) of the EAR.	81 FR 61601, 9/7/16.
	Gazprom Mezhregiongaz, OOO, a.k.a., the following two aliases: —Gazprom Mezhregiongaz; *and* —Obshchestvo S Ogranichennoi Otvetstvennostyu 'Gazprom Mezhregiongaz'. d. Dom 24 korp. Liter A nab.Admirala Lazareva, St. Petersburg 197110, Russia.	For all items subject to the EAR when used in projects specified in § 746.5 of the EAR.	See § 746.5(b) of the EAR.	81 FR 61601, 9/7/16.
	Gazprom Neft (a.k.a. Gazprom Neft OAO; a.k.a. JSC Gazprom Neft; a.k.a. Open Joint-Stock Company Gazprom Neft; f.k.a. Sibirskaya Neftyanaya Kompaniya OAO) Address: Let. A. Galernaya, 5, ul, St. Petersburg 190000, Russia Alt Address: Ul. Pochtamtskaya, 3–5, St. Petersburg 190000, Russia Alt Address: 3–5 Pochtamtskaya St., St. Petersburg 190000, Russia Alt Address: 125 A. Profsoyuznaya Street, Moscow 117647, Russia	For all items subject to the EAR when used in projects specified in § 746.5 of the EAR.	See § 746.5(b) of the EAR.	79 FR 55612, 9/17/14.
	Gazprom, OAO (a.k.a. Open Joint Stock Company Gazprom; a.k.a. OAO Gazprom; a.k.a. Gazprom) Address: 16 Nametkina St., Moscow, Russia GSP–7, 117997, Russia Alt Address: 16 Nametkina ul., Moscow 117991, Russia	For all items subject to the EAR when used in projects specified in § 746.5 of the EAR.	See § 746.5(b) of the EAR.	79 FR 55612, 9/17/14.
	Gazprom Pererabotka, OOO, a.k.a., the following two aliases: —Gazprom Pererabotka; *and* —Obshchestvo S Ogranichennoi Otvetstvennostyu 'Gazprom Pererabotka'. d.16 ul.Ostrovskogo, Surgut, Khanty-Mansiski Avtonomny okrug—Yugra a.o. 628417, Russia.	For all items subject to the EAR when used in projects specified in § 746.5 of the EAR.	See § 746.5(b) of the EAR.	81 FR 61601, 9/7/16.
	Gazprom Personal, OOO, a.k.a., the following two aliases: —Gazprom Personal; *and* —Obshchestvo S Ogranichennoi Otvetstvennostyu 'Gazprom Personal'. 16, Gsp-7 ul.Nametkina, Moscow 117997, Russia.	For all items subject to the EAR when used in projects specified in § 746.5 of the EAR.	See § 746.5(b) of the EAR.	81 FR 61601, 9/7/16.
	Gazprom Promgaz, AO (f.k.a., Otkrytoe Aktsionernoe Obshchestvo Gazprom Promgaz), a.k.a., the following two aliases: —Aktsionernoe Obshchestvo 'Gazprom Promgaz' *and* —Gazprom Promgaz. d. 6 ul.Nametkina, Moscow 117420, Russia.	For all items subject to the EAR when used in projects specified in § 746.5 of the EAR.	See § 746.5(b) of the EAR.	81 FR 61601, 9/7/16.
	Gazprom Russkaya, OOO (f.k.a., Obshchestvo S Ogranichennoi Otvetstvennostyu Kovyktneftegaz), a.k.a., the following two aliases: —Gazprom Russkaya; *and* —Obshchestvo S Ogranichennoi Otvetstvennostyu 'Gazprom Russkaya'. 3 korp.2 ul.Varshavskaya, St. Petersburg 196128, Russia.	For all items subject to the EAR when used in projects specified in § 746.5 of the EAR.	See § 746.5(b) of the EAR.	81 FR 61601, 9/7/16.

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	Gazprom Sotsinvest, OOO (f.k.a., Gazprominvestarena OOO), a.k.a., the following two aliases: —Gazprom Sotsinvest; *and* —Obshchestvo S Ogranichennoi Otvetstvennostyu 'Gazprom Sotsinvest'. d. 20 litera A nab.Aptekarskaya, St. Petersburg 197022, Russia.	For all items subject to the EAR when used in projects specified in § 746.5 of the EAR.	See § 746.5(b) of the EAR.	81 FR 61601, 9/7/16.
	Gazprom Svyaz, OOO, a.k.a., the following two aliases: —Gazprom Svyaz; *and* —Obshchestvo S Ogranichennoi Otvetstvennostyu 'Gazprom Svyaz'. d.16 ul.Nametkina, Moscow 117997, Russia.	For all items subject to the EAR when used in projects specified in § 746.5 of the EAR.	See § 746.5(b) of the EAR.	81 FR 61601, 9/7/16.
	Gazprom Telekom, OOO (f.k.a., Zakrytoe Aktsionernoe Obshchestvo Gaztelekom), a.k.a., the following two aliases: —Gazprom Telecom; *and* —Obshchestvo S Ogranichennoi Otvetstvennostyu 'Gazprom Telekom'. d. 62 str. 2 shosse Starokaluzhskoe, Moscow 117630, Russia.	For all items subject to the EAR when used in projects specified in § 746.5 of the EAR.	See § 746.5(b) of the EAR.	81 FR 61601, 9/7/16.
	Gazprom Transgaz Kazan, OOO, a.k.a., the following two aliases: —Gazprom Transgaz Kazan; *and* —Obshchestvo S Ogranichennoi Otvetstvennostyu 'Gazprom Transgaz Kazan'. d.41 ul.Adelya Kutuya, Kazan, Tatarstan resp 420073, Russia.	For all items subject to the EAR when used in projects specified in § 746.5 of the EAR.	See § 746.5(b) of the EAR.	81 FR 61601, 9/7/16.
	Gazprom Transgaz Krasnodar, OOO, a.k.a., the following two aliases: —Gazprom Transgaz Krasnodar; *and* —Obshchestvo S Ogranichennoi Otvetstvennostyu 'Gazprom Transgaz Krasnodar'. d.36 ul.Im Dzerzhinskogo, Krasnodar, Krasnodarski krai 350051, Russia.	For all items subject to the EAR when used in projects specified in § 746.5 of the EAR.	See § 746.5(b) of the EAR.	81 FR 61601, 9/7/16.
	Gazprom Transgaz Makhachkala, OOO (f.k.a., Obshchestvo S Ogranichennoi Otvetstvennostyu Gazprom Transgaz Makhachkala), a.k.a., the following two aliases: —Gazprom Transgaz Makhachkala; *and* —Obshchestvo S Ogranichennoi Otvetstvennostyu 'Gazprom Transgaz Makhachkala'.ul.O.Bulacha, Makhachkala, Dagestan resp. 367030, Russia.	For all items subject to the EAR when used in projects specified in § 746.5 of the EAR.	See § 746.5(b) of the EAR.	81 FR 61601, 9/7/16.
	Gazprom Transgaz Nizhni Novgorod, OOO, a.k.a., the following two aliases: —Gazprom Transgaz Nizhny Novgorod; *and* —Obshchestvo S Ogranichennoi Otvetstvennostyu 'Gazprom Transgaz Nizhni Novgorod'. d.11 ul.Zvezdinka, Nizhni Novgorod, Nizhegorodskaya obl. 603950, Russia.	For all items subject to the EAR when used in projects specified in § 746.5 of the EAR.	See § 746.5(b) of the EAR.	81 FR 61601, 9/7/16.

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	Gazprom Transgaz Samara, OOO, a.k.a., the following two aliases: —Gazprom Transgaz Samara; *and* —Obshchestvo S Ogranichennoi Otvetstvennostyu 'Gazprom Transgaz Samara'. d. 106 A str. 1 ul.Novo-Sadovaya, Samara, Samarskaya obl. 443068, Russia.	For all items subject to the EAR when used in projects specified in § 746.5 of the EAR.	See § 746.5(b) of the EAR.	81 FR 61601, 9/7/16.
	Gazprom Transgaz Sankt-Peterburg, OOO, a.k.a., the following two aliases: —Gazprom Transgaz Saint Petersburg; *and* —Obshchestvo S Ogranichennoi Otvetstvennostyu 'Gazprom Transgaz Sankt-Peterburg'. 3 korp.2 ul.Varshavskaya, St. Petersburg 196128, Russia.	For all items subject to the EAR when used in projects specified in § 746.5 of the EAR.	See § 746.5(b) of the EAR.	81 FR 61601, 9/7/16.
	Gazprom Transgaz Saratov, OOO, a.k.a., the following two aliases: —Gazprom Transgaz Saratov; *and* —Obshchestvo S Ogranichennoi Otvetstvennostyu 'Gazprom Transgaz Saratov'. d.118 A prospekt Im 50 Let Oktyabrya, Saratov, Saratovskaya obl. 410052, Russia.	For all items subject to the EAR when used in projects specified in § 746.5 of the EAR.	See § 746.5(b) of the EAR.	81 FR 61601, 9/7/16.
	Gazprom Transgaz Stavropol, OOO, a.k.a., the following two aliases: —Gazprom Transgaz Stavropol; *and* —Obshchestvo S Ogranichennoi Otvetstvennostyu 'Gazprom Transgaz Stavropol'. d.6 prospekt Oktyabrskoi Revolyutsii, Stavropol, Stavropolski krai 355000, Russia.	For all items subject to the EAR when used in projects specified in § 746.5 of the EAR.	See § 746.5(b) of the EAR.	81 FR 61601, 9/7/16.
	Gazprom Transgaz Surgut, OOO, a.k.a., the following two aliases: —Gazprom Transgaz Surgut; *and* —Obshchestvo S Ogranichennoi Otvetstvennostyu 'Gazprom Transgaz Surgut'. d.1 ul.Universitetskaya, Surgut, Khanty-Mansiski Avtonomny okrug—Yugra a.o. 628406, Russia.	For all items subject to the EAR when used in projects specified in § 746.5 of the EAR.	See § 746.5(b) of the EAR.	81 FR 61601, 9/7/16.
	Gazprom Transgaz Tomsk, OOO, a.k.a., the following two aliases: —Gazprom Transgaz Tomsk; *and* —Obshchestvo S Ogranichennoi Otvetstvennostyu 'Gazprom Transgaz Tomsk'. d.9 prospekt Frunze, Tomsk, Tomskaya obl. 634029, Russia.	For all items subject to the EAR when used in projects specified in § 746.5 of the EAR.	See § 746.5(b) of the EAR.	81 FR 61601, 9/7/16.
	Gazprom Transgaz Ufa, OOO (f.k.a., Obshchestvo S Ogranichennoi Otvetstvennostyu Bashtransgaz Otkrytogo Aktsionernogo Obshchestva Gazprom), a.k.a., the following two aliases: —Gazprom Transgaz Ufa; *and* —Obshchestvo S Ogranichennoi Otvetstvennostyu 'Gazprom Transgaz Ufa'. 59 ul.Rikharda Zorge, Ufa, Bashkortostan resp. 450054, Russia.	For all items subject to the EAR when used in projects specified in § 746.5 of the EAR.	See § 746.5(b) of the EAR.	81 FR 61601, 9/7/16.
	Gazprom Transgaz Ukhta, OOO, a.k.a., the following two aliases: —Gazprom Transgaz Ukhta; *and* —Obshchestvo S Ogranichennoi Otvetstvennostyu 'Gazprom Transgaz Ukhta'. d.39/2 prospekt Lenina, Ukhta, Komi resp 169312, Russia.	For all items subject to the EAR when used in projects specified in § 746.5 of the EAR.	See § 746.5(b) of the EAR.	81 FR 61601, 9/7/16.

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	Gazprom Transgaz Volgograd, OOO, a.k.a., the following two aliases: —Gazprom Transgaz Volgograd; *and* —Obshchestvo S Ogranichennoi Otvetstvennostyu 'Gazprom Transgaz Volgograd'. 58 ul.Raboche-Krestyanskaya, Volgograd, Volgogradskaya obl. 400074, Russia.	For all items subject to the EAR when used in projects specified in § 746.5 of the EAR.	See § 746.5(b) of the EAR.	81 FR 61601, 9/7/16.
	Gazprom Transgaz Yugorsk, OOO (f.k.a., Obshchestvo S Ogranichennoi Otvetstvennostyu Tyumentransgaz), a.k.a., the following two aliases: —Gazprom Transgaz Yugorsk; *and* —Obshchestvo S Ogranichennoi Otvetstvennostyu 'Gazprom Transgaz Yugorsk'. d.15 ul.Mira, Yugorsk, Khanty-Mansiski Avtonomny okrug, Yugra a.o. 628260, Russia.	For all items subject to the EAR when used in projects specified in § 746.5 of the EAR.	See § 746.5(b) of the EAR.	81 FR 61601, 9/7/16.
	Gazprom Tsentrremont, OOO, a.k.a., the following two aliases: —Gazprom Tsentrremont; *and* —Obshchestvo S Ogranichennoi Otvetstvennostyu 'Gazprom Tsentrremont'. d.1 ul.Moskovskaya, Shchelkovo, Moskovskaya obl 141112, Russia.	For all items subject to the EAR when used in projects specified in § 746.5 of the EAR.	See § 746.5(b) of the EAR.	81 FR 61601, 9/7/16.
	Gazprom Vniigaz, OOO, a.k.a., the following two aliases: —Gazprom Vniigaz; *and* —Obshchestvo S Ogranichennoi Otvetstvennostyu 'Nauchno-Issledovatelski Institut Prirodnykh Gazov I Gazovykh Tekhnologi—Gazprom Vniigaz'. P Razvilka, Leninski Raion, Moskovskaya obl. 142717, Russia.	For all items subject to the EAR when used in projects specified in § 746.5 of the EAR.	See § 746.5(b) of the EAR.	81 FR 61601, 9/7/16.
	Hermann Derkach, Pr. Yuria Gagarina 2, Office 801, St. Petersburg, Russia 196105.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Igor Samusev, Ulitsa Artyukhina 6B, 106, Moscow, Russia.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Incorporated Electronics Systems, 9 Lipovaya alleya, St. Petersburg, Russia 197183; *and* 9A Lipovaya alleya, St. Petersburg, Russia 197183.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Institut Stroiproekt, AO, a.k.a., the following six aliases: —Aktsionernoe Obshcestvo Institut Stroiproekt; —AO Institut Stroiproekt; —AO Institute Stroyproekt (f.k.a., Institut Stroiproekt Zakrytoe Aktsionernoe Obshchestvo); —Institute Stroyproect; —Stroyproekt; *and* —Stroyproekt Engineering Group D. 13 Korp. 2 LiteraA Prospekt Dunaiski, St. Petersburg 196158, Russia; *and* 13/2 Dunaisky Prospect, St. Petersburg 196158, Russia.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 94968, 12/27/16.
	Ivan Komarov, Pr. Yuria Gagarina 2, Office 801, St. Petersburg, Russia 196105.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.

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	Ivan Zubarev, 4 Savelkinskiy Dr., Suite 511–512, Zelenograd, Russia 124482.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Izhevsky Mekhanichesky Zavod JSC, a.k.a., the following one alias: —Baikal. 8 Promyshlennaya Str., Izhevsk 426063, Russia.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	80 FR 52968, 9/2/15.
	Joint-Stock Company Concern Almaz-Antey, a.k.a., the following four aliases: —Almaz-Antey Corp; *and* —Almaz-Antey Defense Corporation; *and* —Almaz-Antey JSC; *and* —Otkrytoe Aktsionernoe Obshchestvo Kontsern PVO Almaz Antei. 41 ul. Vereiskaya, Moscow, 121471, Russia.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 42455, 7/22/14.
	Joint Stock Company Angstrem, Angstrem-M, Dom 4, Stroennie 3, Proezd 4806, Zelenograd, Russia 124460.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 61601, 9/7/16.
	Joint Stock Company Angstrem-T, Dom 7, Georgievskiy Prospekt, Zelenograd, Russia 124460.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 61601, 9/7/16.
	Joint-Stock Company Concern Radio-Electronic Technologies, a.k.a., the following three aliases: —Concern Radio-Electronic Technologies; *and* —JSC Concern Radio-Electronic Technologies; *and* —Kret. 20/1 Korp. 1 ul. Goncharnaya, Moscow 109240, Russia.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 42455, 7/22/14.
	Joint Stock Company Concern Sozvezdie, a.k.a., the following one alias: —JSC Concern Sozvezdie. 14 Plekhanovskaya Street, Voronezh, Russia; *and* 14 ul. Plekhanovskaya, Voronezh, Voronezhskaya obl. 394018, Russia.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 42455, 7/22/14.
	Joint Stock Company Foreign Economic Association (FEA) Radioexport, 8 Ukrainksi Boulevard, Moscow, Russia, 121059.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 61601, 9/7/16.
	Joint Stock Company Mikron, a.k.a., the following one alias: —NIIME and Mikron. 1st Zapadny Proezd 12/1, Zelenograd, Russia 124460.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 61601, 9/7/16.

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	Joint Stock Company Military-Industrial Corporation NPO Mashinostroyenia, a.k.a., the following eight aliases: —Joint Stock Company Military Industrial Consortium NPO Mashinostroyenia; *and* —JSC MIC NPO Mashinostroyenia; *and* —MIC NPO Mashinostroyenia JSC; *and* —MIC NPO Mashinostroyeniya JSC; *and* —Military Industrial Corporation NPO Mashinostroenia OAO; *and* —Open Joint Stock Company Military Industrial Corporation Scientific and Production Machine Building Association; *and* —Voenno-Promyshlennaya Korporatsiya Nauchno-Proizvodstvennoe Obedinenie Mashinostroeniya OAO; *and* —VPK NPO Mashinostroeniya. 33, Gagarina St., Reutov-town, Moscow Region 143966, Russia; *and* 33 Gagarin Street, Reutov, Moscow Region, 143966, Russia; *and* 33 Gagarina ul., Reutov, Moskovskaya obl 143966.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 42455, 7/22/14.
	Joint Stock Company Perm Scientific Industrial Instrument-Making Company (PNPPK), 25th of October Street, Number 106, Perm, Russia 614990.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 61601, 9/7/16.
	Joint Stock Company Research and Production Company Micran, 51d Kirova Street, Tomsk, Russia 634041; *and* 2/5/4 Building 3 Slavyanskaya Square, Moscow, Russia 109074.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 61601, 9/7/16.
	JSC GOZ Obukhov Plant, a.k.a., the following one alias: —GOZ Obukhov Plant. Prospekt Obukhovskoi Oboroni 120, Saint Petersburg, 192012, Russia.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 94968, 12/27/16.
	JSC Institute of Instrumentation—Novosibirsk Plant Comintern (NPO NIIP–NZIK), Planetnaya Street 32, Novosibirsk, 630015, Russia.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 94968, 12/27/16.
	JSC Scientific Research Institute of Aircraft Equipment (NIIAO), a.k.a., the following three aliases: —SRIAE; —NIIAO; *and* —Aviation Instrument Scientific Research Institute Tupoleva 18, Zhukovsky, Moscow, 140182, Russia.	For all items subject to the EAR. (See § 744.11 of the EAR)..	Presumption of denial	81 FR 94968, 12/27/16.

Country	Entity	License requirement	License review policy	FEDERAL REGISTER citation
	Kalashnikov Concern, a.k.a., the following eight aliases: —Concern Kalashnikov; *and* —Izhevskiy Mashinostroitel'nyi Zavod OAO; *and* —Izhmash R&D Center; *and* —JSC NPO Izhmash; *and* —NPO Izhmash OAO; *and* —OJSC Concern Kalashnikov; *and* —OJSC Izhmash; *and* —Scientific Production Association Izhmash Joint Stock Company. 3, Derjabin Pr., Izhevsk, Udmurt Republic, 426006, Russia.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 42455, 7/22/14.
	Kalinin Machine Plant, JSC (a.k.a., Kalinin Machine-Building Plant Open Joint-Stock Company; a.k.a. Kalinin Machinery Plant-BRD; a.k.a. Mashinostroitel'NYI Zavod IM. M.I. Kalinina, G. Yekaterinburg OAO; a.k.a. Mzik OAO; a.k.a. Open-End Joint-Stock Company 'Kalinin Machinery Plant. YEKATERINBURG'; a.k.a. Otkrytoe Aktsionernoe Obshchestvo Mashinostroitelny Zavod IM.M.I.Kalinina, G.Ekaterinburg) Address: 18 prospekt Kosmonavtov, Ekaterinburg 620017, Sverdlovskaya obl., Russia	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 55612, 9/17/14.
	Kaluga Scientific Research Radio Technology Institute (KRRTI), a.k.a., the following two aliases: —KNIRTI; *and* —KRRTI Lenin Street 2, Zhukov, Kaluga Oblast, 249192, Russia.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 94968, 12/27/16.
	Kamchatgazprom, OAO, a.k.a., the following two aliases: —Kamchatgazprom; *and* —Otkrytoe Aktsionernoe Obshchestvo 'Kamchatgazprom'. d.19 ul.Pogranichnaya, Petropavlovsk-Kamchatski, Kamchatski krai 683032, Russia.	For all items subject to the EAR when used in projects specified in § 746.5 of the EAR.	See § 746.5(b) of the EAR.	81 FR 61601, 9/7/16.
	Karst, OOO, a.k.a., the following four aliases: —Construction Holding Company Old City—Karst; —Karst Ltd.; —LLC Karst; *and* —Obshcestvo S Ogranichennoi Otvetstvennostyu Karst D. 4 Litera A Pomeshchenie 69 ul. Kapitanskaya, St. Petersburg 199397, Russia; *and* 4 Kapitanskaya Street, Unit A, Office 69–N, St. Petersburg 199397, Russia.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 94968, 12/27/16.
	Kirill A Stekhovskiy, Zastavskaya St. 32A, St. Petersburg, Russia 196084; *and* Zastavaskaya St. 15–B, St. Petersburg, Russia 196084; *and* Raketnyy Bul'var 15, Moscow, Russia 129164; *and* 16 Raketnyy Bul'var, Moscow, Russia 129164.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.

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	Kirill Drozdov, 86 N Prospect Obukhovskoy Oborony, St. Petersburg, Russia 190000.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Kirill Pechorin Starodvorsky, 25 Red Cadets Street Letter H, Office Block 2, St. Petersburg, Russia 99034; *and* 130–17 Nevskiy Ave., Saint Petersburg, Russia 191036; *and* 16 Linia V.O., 7 Office 43, St. Petersburg, Russia 99034; *and* Krestovski River Quay 3, Suite 42, St. Petersburg, Russia 197376.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Konstruktorskoe Byuro Priborostroeniya Otkrytoe Aktsionernoe Obshchestvo, a.k.a., the following five aliases: —Instrument Design Bureau; *and* —JSC KBP Instrument Design Bureau; *and* —KBP Instrument Design Bureau; *and* —KBP Instrument Design Bureau Joint Stock Company; *and* —KBP OAO. 59 Shcheglovskaya Zaseka ul., Tula 300001, Russia.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 42455, 7/22/14.
	Krasnoyarskgazprom, PAO, a.k.a., the following two aliases: —Krasnoyarskgazprom; *and* —Publichnoe Aktsionernoe Obshchestvo 'Krasnoyarskgazprom. d.1 pl.Akademika Kurchatova, Moscow 123182, Russia.	For all items subject to the EAR when used in projects specified in § 746.5 of the EAR.	See § 746.5(b) of the EAR.	81 FR 61601, 9/7/16.
	Lazurnaya, OOO, a.k.a., the following two aliases: —Obshchestvo S Ogranichennoi Otvetstvennostyu 'Lazurnaya'; *and* —"Lazurnaya". d.103 prospekt Kurortny, Sochi, Krasnodarski krai 354024, Russia.	For all items subject to the EAR when used in projects specified in § 746.5 of the EAR.	See § 746.5(b) of the EAR.	81 FR 61601, 9/7/16.
	LLC Koksokhimtrans, a.k.a., the following one alias: —Koksokhimtrans Ltd. Rakhmanovskiy lane, 4, bld.1, Morskoy House, Moscow 127994, Russia.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 61601, 9/7/16.
	LLC Ruschemtrade, St. Mashinostroitelnyj, 3, Rostov-on-Don 344090, Russia; and 86/1, Temryuk, Krasnodar 353500, Russia.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 94968, 12/27/16.
	Lukoil, OAO (a.k.a. Lukoil; a.k.a. Lukoil Oil Company; a.k.a. Neftyanaya Kompaniya Lukoil OOO; a.k.a. NK Lukoil OAO) Address: 11 Sretenski boulevard, Moscow 101000, Russia	For all items subject to the EAR when used in projects specified in § 746.5 of the EAR.	See § 746.5(b) of the EAR.	79 FR 55612, 9/17/14.
	Lyudmila V Talyanova, Zastavskaya St. 32A, St. Petersburg, Russia 196084; *and* Zastavskaya St. 15–B, St. Petersburg, Russia; *and* Raketnyy Bul'var 15, Moscow, Russia 129164; *and* Krestovski River Quay 3, Suite 42, St. Petersburg, Russia 197376.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Magnetar, Pr. Yuria Gagarina 2, Office 801, St. Petersburg, Russia 196105.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Mariya Lomova, 9 Lipovaya alleya, St. Petersburg, Russia 197183.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.

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	Mark Gofman, P.O. Box 242, St. Petersburg, Russia 196240.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Maxim Yevgenevich Ivakin, 106 Kuybyshev Str, Office 68, Yekaterinburg, Russia.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	MaxiTechGroup, a.k.a., the following two aliases: —MaksiTekhGrup; *and* —JSC MaksiTekhGrup, 4 Pokhodnyy Dr, Bldg 1, 4th floor, Room 417, Moscow, Russia 125373; *and* 46 Chkalova St., Zhukovskiy, Moscow Region, 140180.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Megel, 26 General Belov St, Office 1010, Moscow, Russia 115583; *and* 26 Generala Belova Street, Office 1010, Moscow, Russia 115583.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Mekom, a.k.a., the following one alias: —Mecom, Ulitsa Mitinskaya 36/1, Moscow, Russia 125430.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Melkom, a.k.a., the following two aliases: —Melcom; *and* —Melkom JSC, Ulitsa Ordzhonikidze 10, Moscow, Russia 119071; *and* 10 Ordjonikidze Street, Moscow, Russia 119071; *and* Ultisa Polyany 9/6, Moscow, Russia 117042; *and* Polijani str., 9–6, 117042, Moscow, Russia; *and* 33 Ulitsa Marshala Tukhachevskogo, Suite 231, Moscow, Russia 123154; *and* Bolshaya Semenovskaya, 40/505, Moscow, Russia 107023; *and* Ulitsa Metallurgov, 29, Str. 1, Komnata Pravleni, Moscow, Russia 111401.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	MicroComponent LLC, 2/1, 4th Zapadny proezd, Zelenograd, Russia 124460; *and* 4 Yunost Square, NPZ, Suite 1–7, Zelenograd, Russia 124482; *and* 4th West Passage Dr., Building 2, 124460, Zelenograd, Russia.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	MIG Engineering, a.k.a., the following one alias: —MIG Electronics, 26 General Belov Str, Office 1010, Moscow, Russia 115583; *and* 26 Generala Belova Street, Office 1010, Moscow, Russia 115583; *and* 53 Scherbakovskaya St, Bldg 3, Moscow, Russia 105187.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Mikhail Davidovich, a.k.a., the following one alias: —Mike Davidovich, P.O. Box 242, St. Petersburg, Russia 196240.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.

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	Mikhail Karpushin, 5A North Street, Saransk, Republic of Mordovia, Russia 43006; *and* 53 Sherbakovskaya Street, Building 3, Office 509, 105318 Moscow, Russia; *and* 26 General Belov St Office 415, Moscow, Russia 115583; *and* 26 Generala Belova Street, Office 415, Moscow, Russia 115583; *and* 60 Bolshevistskaya St., Office 905, Saransk, Republic of Mordovia, Russia; *and* 60 Bolshevistskaya St., Office 910, Saransk, Republic of Mordovia, Russia; *and* 5a Severnaya Street, Saransk, Republic of Mordovia, Russia.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Mikhail Vinogradov, 4 Pokhodnyy Dr, Bldg 1, 4th Floor, Room 417, Moscow, Russia 125373.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Mytishchinski Mashinostroitelny Zavod, OAO (a.k.a., JSC Mytishchinski Machine-Building Plant; a.k.a. Otkrytoe Aktsionernoe Obshchestvo 'Mytishchinski Mashinostroitelny ZAVOD') Address: 4 ul. Kolontsova Mytishchi, Mytishchinski Raion, Moskovskayaobl 141009, Russia Alt. Address: UL Koloncova, d.4, Mytishi, Moscow region 141009, Russia	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 55612, 9/17/14.
	Neft-Aktiv LLC, a.k.a., the following two aliases: —OOO Neft —Aktiv; *and* —RN-Aktiv OOO. Ulica Kaluzhskaya M., d., 15, str. 28, Moscow 119071, Russia.	For all items subject to the EAR when used in projects specified in § 746.5 of the EAR.	See § 746.5(b) of the EAR.	80 FR 52968, 9/2/15.
	Neva Electronica, a.k.a., the following one alias: —Neva Elektronika, Pr. Yuria Gagarina 2, Office 801, St. Petersburg, Russia 196105; *and* 5 Professora Popova St., Saint Petersburg, 197022.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Niigazekonomika, OOO, a.k.a., the following two aliases: —Niigazeconomika; *and* —Obshchestvo S Ogranichennoi Otvetstvennostyu 'Nauchnoissledovatelski Institut Ekonomiki I Organizatsii Upravleniya V Gazovoipromyshlennosti'. d. 20 korp. 8 ul. Staraya Basmannaya, Moscow 107066, Russia.	For all items subject to the EAR when used in projects specified in § 746.5 of the EAR.	See § 746.5(b) of the EAR.	81 FR 61601, 9/7/16.
	Nikolai Bragin, 2A Chernyshevskogo St., St. Petersburg, Russia 191123; *and* Zastavkaya St. 32A, St. Petersburg, Russia 196084; *and* Zastavskaya st. 15–B, St. Petersburg, Russia 196084; *and* Raketnyy Bul'var 15, Moscow, Russia 129164; *and* 16 Raketnyy Bul'var, Moscow, Russia 129164.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.

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	Nova Technologies, a.k.a., the following five aliases: —Novie Technologies; *and* —Nova SPB; *and* —New Technology; *and* —Nova Technologies Co., Ltd.; *and* —Novyye Tekhnologii, LLC, 25 Red Cadets Street Letter H, Office Block 2, St. Petersburg, Russia 99034; *and* 130–17 Nevskiy Ave., Saint Petersburg, Russia 191036; *and* 16 Linia V.O., 7 Office 43, St. Petersburg, Russia 99034; *and* Krestovski River Quay 3, Suite 42, St. Petersburg, Russia 197376.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	NPC Granat, 22 Polytechnicheskaya Street, Saint Petersburg, Russia 194021.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 61601, 9/7/16.
	OAO All-Russia Research Institute of Radio Equipment (JSC VNIIRA), a.k.a., the following three aliases: —OJSC VNIIRA; —OAO All-Russia Research Institute of Radio Technology; *and* —All-Russian Scientific Research Institute of Radio Equipment Shkipersky Protok 19, V.I. St. Petersburg, 199106, Russia.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 94968, 12/27/16.
	OAO Ship Repair Center 'Zvezdochka', a.k.a., the following four aliases: —'Zvezdochka' Shipyard; —AO Ship Repair Center 'Zvezdochka'; —Joint Stock Company Ship Repair Center 'Zvezdochka;' *and* —Ship Repair Center Zvezdochka. 12, proyezd Mashinostroiteley, Severodvinsk, Arkhangelskaya Oblast 164509, Russia. (See alternate address in Crimea region of Ukraine).	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 61601, 9/7/16.
	OAO Volgogradneftemash (f.k.a. Dochernee Aktsionernoe Obshchestvo Otkrytogo Tipa Volgogradneftemash Rossiiskogo Aktsionernogo Obshchestva Gazprom), a.k.a., the following two aliases: —JSC Volgogradneftemash; *and* —Otkrytoe Aktsionernoe Obshchestvo Volgogradneftemash 45 Ulitsa Elektrolesovskaya, Volgograd, Volgogradskaya Oblast 400011, Russia.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	80 FR 80646, 12/28/15.
	OJSC Achinsk Refinery, a.k.a., the following two aliases: —Achinsk Refinery; *and* —OAO Achinsk Oil Refinery VNK. Achinsk Refinery industrial area, Bolsheuluisky district, Krasnoyarsk territory 662110, Russia.	For all items subject to the EAR when used in projects specified in § 746.5 of the EAR.	See § 746.5(b) of the EAR.	80 FR 52968, 9/2/15.

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	OJSC Angarsk Petrochemical Company, a.k.a., the following one alias: —Angarsk Refinery. Angarsk, Irkutsk region 665830, Russia; *and* 6 ul. K. Marksa, Angarsk 665830, Russia.	For all items subject to the EAR when used in projects specified in § 746.5 of the EAR.	See § 746.5(b) of the EAR.	80 FR 52968, 9/2/15.
	OJSC Kuybyshev Refinery, a.k.a., the following two aliases: —Kuibyshev Refinery; *and* —OJSC Kuibyshev Refinery. 25 Groznenskaya st., Samara 443004, Russia.	For all items subject to the EAR when used in projects specified in § 746.5 of the EAR.	See § 746.5(b) of the EAR.	80 FR 52968, 9/2/15.
	OJSC Novokuybyshev Refinery, a.k.a., the following one alias: —Novokuibyshevsk Refinery. Novokuibyshevsk, Samara region 446207, Russia.	For all items subject to the EAR when used in projects specified in § 746.5 of the EAR.	See § 746.5(b) of the EAR.	80 FR 52968, 9/2/15.
	OJSC Orenburgneft, a.k.a., the following two aliases: —OAO JSC Orenburgneft; *and* —Orenburgneft. Magistralnaya St., 2, Buzuluk, the Orenburg Region 461040, Russia; *and* st. Magistralynaya 2, Buzuluk 461040, Russia.	For all items subject to the EAR when used in projects specified in § 746.5 of the EAR.	See § 746.5(b) of the EAR.	80 FR 52968, 9/2/15.
	OJSC RN Holding, a.k.a., the following one alias: —RN Holding OAO. 60 Oktyabrskaya ul., Uvat 626170, Russia.	For all items subject to the EAR when used in projects specified in § 746.5 of the EAR.	See § 746.5(b) of the EAR.	80 FR 52968, 9/2/15.
	OJSC Samotlorneftegaz, a.k.a., the following two aliases: —Samotlorneftegaz; *and* —Samotlorneftegaz JSC. Lenina St. 4, the Tyumen Region, Khanty-Mansiysk, Autonomous District, Nizhnevartovsk 628606, Russia.	For all items subject to the EAR when used in projects specified in § 746.5 of the EAR.	See § 746.5(b) of the EAR.	80 FR 52968, 9/2/15.
	OJSC Sovfracht, a.k.a., the following three aliases: —PJSC 'Sovfracht'; —Sovfracht JSC; *and* —Sovfrakht. Rakhmanovskiy lane, 4, bld.1, Morskoy House, Moscow 127994, Russia.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 61601, 9/7/16.
	OJSC Syzran Refinery, a.k.a., the following two aliases: —Open Joint-Stock Oil and Gas Company Syzran; *and* —Syzran Refinery. 1 Astrakhanskaya st., Syzran, Samara region 446009, Russia; *and* Moskvorechje street 105, Building 8, Moscow 115523, Russia.	For all items subject to the EAR when used in projects specified in § 746.5 of the EAR.	See § 746.5(b) of the EAR.	80 FR 52968, 9/2/15.
	OJSC Ural Production Company Vector (UPP Vector), a.k.a., the following two aliases: —JSC 'SCP' Vector; *and* —JSC PPM Vector Gagarin Street 28, Ekaterinburg, 620078, Russia.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 94968, 12/27/16.
	Oksana Timohina, 6 Aptekarskiy Prospekt, Office 710, St. Petersburg, Russia 197376; *and* Naberezhnaya Chernoi Rechki 61–1, St. Petersburg, Russia 197342; *and* 7 Belovodskiy Ln, St. Petersburg, Russia 194044; *and* Belovodskyi Per, 7, St. Petersburg, Russia 194044; *and* Naberegnaja Chernoj Rechki 61–1, 197342, Saint Petersburg, Russia; *and* 16 Parkovaya 30, Office 319, Moscow, Russia 105484.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.

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	Oleg Koshkin, 26 General Belov St Office 415, Moscow, Russia 115583; *and* 26 Generala Belova St Office 415, Moscow, Russia 115583; *and* 53 Sherbakovskaya Street, Building 3, Office 509, 105318 Moscow, Russia.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Oleg Kunilov, 4 Savelkinskiy Dr., Suite 511–512, Zelenograd, Russia 124482.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Olga Naumova, 53 Sherbakovskaya St, Bldg 3, Moscow, Russia 105187; *and* 26 General Belov Str, Office 1010, Moscow, Russia 115583; *and* 26 Generala Belova Street, Office 1010, Moscow, Russia 115583.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Olga Pakhmutova, 53 Sherbakovskaya Street, Building 3, Office 509, 105318 Moscow, Russia; *and* 26 General Belov Str, Office 1010, Moscow, Russia 115583; *and* 26 Generala Belova Street, Office 1010, Moscow, Russia 115583; *and* 26 General Belov St Office 415, Moscow, Russia 115583; *and* 26 Generala Belova Street, Office 415, Moscow, Russia 115583.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Olga Petrovna Kuznetsova, 33 Ulitsa Marshala Tukhachevskogo, Suite 231 Moscow, Russia 123154; *and* Ordzhonikidze 10, Moscow, Russia 119071; *and* 10 Ordjonikidze Street, Moscow, Russia 119071; *and* Ulitsa Polyany 9/6, Moscow, Russia 117042; *and* Poljani str., 9–6, 117042 Moscow, Russia; *and* 9 Polyany Street, Suite 6, Moscow, Russia 117042; *and* Bolshaya Semenovskaya, 40/505, Moscow, Russia 107023; *and* Ulitsa Metallurgov, 29, Str. 1, Komnata Pravleni, Moscow, Russia 111401.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Olga Ruzmanova, 53 Sherbakovskaya Street, Building 3, Office 509, 105318 Moscow, Russia; *and* 26 General Belov St Office 415, Moscow, Russia 115583; *and* 26 Generala Belova Street, Office 415, Moscow, Russia 115583; *and* 26 General Belov Str, Office 19, Moscow, Russia 115583; *and* 26 Generala Belova Street, Office 19, Moscow, Russia 115583.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/2012.
	Olga V Bobrikova, 8 Pushkinskaya St., Apt. #47, St. Petersburg, Russia 196607; *and* Zastavskaya St 32A, St. Petersburg, Russia 196084; *and* Zastavskaya St. 15–B, St. Petersburg, Russia 196084; *and* Raketnyy Bul'var 15, Moscow, Russia 129164; *and* 16 Raketnyy Bul'var, Moscow, Russia 129164.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Olid Ltd., a.k.a., the following one alias: —OOO Solid ul Mira 4, Novorossiysk, Krasnodarskiy kray 630024, Russia.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 94968, 12/27/16.

Country	Entity	License requirement	License review policy	FEDERAL REGISTER citation
	OOO 'DSK', a.k.a., the following one alias: —OOO 'Dorozhnaya Stroitelnaya Kompania'.' Stroitelnaya Street, 34, village of Kesova Gora, Tver Oblast 171470, Russia.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 61601, 9/7/16.
	OOO 'STG–EKO', a.k.a., the following one alias: —'STG–EKO' LLC. Street Zastavskaya Building 22, Part A, Saint Petersburg 196084, Russia.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 61601, 9/7/16.
	Open Joint Stock Company Kontsern Izhmash, a.k.a., the following one alias: —OJSC Kontsern Izhmash. 3 Deryabin Proezd, Izhevsk, Udmurt Republic 426006, Russia.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	80 FR 52968, 9/2/15.
	Otkrytoe Aktsionernoe Obshchestvo Vneshneekonomicheskoe Obedinenie Tekhnopromeksport, a.k.a., the following seven aliases: —Joint Stock Company Foreign Economic Association Tekhnopromexport; —JSC Tekhnopromexport; —JSC Vo Tekhnopromexport; —OJSC Technopromexport; —Open Joint Stock Company Foreign Economic Association Tekhnopromexport; —VO Tekhnopromeksport, OAO; *and* —"JSC TPE" d. 15 str. 2 ul. Novy Arbat, Moscow 119019, Russia.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	80 FR 80646, 12/28/15.
	Pavel Grishanovich, 9 Lipovaya alleya, St. Petersburg, Russia 197183.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Petersburg Electronic Company (PEC), LLC, a.k.a., the following one alias: —Petersburg Electron-Komplekt Ltd., Zastavskaya St 32A, St. Petersburg, Russia 196084; *and* Zastavskaya St. 15–B, St. Petersburg, Russia 196084; *and* Raketnyy Bul'var 15, Moscow, Russia 129164; *and* 16 Raketnyy Bul'var, Moscow, Russia 129164.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Petersburg Electronic Company Warehouse, Zastavskaya St. 15–B, St. Petersburg, Russia 196084.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	PJSC Mostotrest, a.k.a., the following four aliases: —Mostotrest; —Mostotrest, PAO; —Open Joint Stock Company 'Mostotrest'; *and* —Public Joint Stock Company Mostotrest. 6 Barklaya str., bld. 5, Moscow 121087, Russia; *and* d. 6 str. 5, ul. Barklaya, Moscow 121087, Russia.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 61601, 9/7/16.

Country	Entity	License requirement	License review policy	FEDERAL REGISTER citation
	PJSC Verkhnechonskneftegaz, a.k.a., the following two aliases: —OJSC Verkhnechonskneftegaz; *and* —Verkhnechonskneftegaz. Baikalskaya St., 295 B, Irkutsk 664050, Russia.	For all items subject to the EAR when used in projects specified in § 746.5 of the EAR.	See § 746.5(b) of the EAR.	80 FR 52968, 9/2/15.
	ProExCom, Ulitsa Artyukhina 6B, 106, Moscow, Russia.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Radel Ltd., a.k.a., the following one alias: —Firm Radel Ltd., 20 Novaya Basmannaya St., Moscow, Russia.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Ramil Yarullovich Magzhanov, Zastavskaya St 32A, St. Petersburg, Russia 196084; *and* Zastavskaya St. 15–B, St. Petersburg, Russia 196084; *and* Raketnyy Bul'var 15, Moscow, Russia 129164; *and* 16 Raketnyy Bul'var, Moscow, Russia 129164.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Ravil Mukminovich Bagautdinov, 53 Sherbakovskaya Street, Building 3, Office 509, 105318 Moscow, Russia; *and* 26 General Belov Str, Office 1010, Moscow, Russia 115583; *and* 26 Generala Belova Street, Office 1010, Moscow, Russia 115583; *and* 26 General Belov St Office 415, Moscow, Russia 115583; *and* 26 Generala Belova Street, Office 415, Moscow, Russia 115583.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	RCM Group, 6 Aptekarskiy Prospekt, Office 700, St. Petersburg, Russia 197376; *and* 30 16th Parkovaya St, Office 319, Moscow, Russia 105484; *and* 16-aya Parkovaya Str., 30, Office 319, Moscow, Russia 105484.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Research and Production Association KVANT, a.k.a., the following one alias: —NPO Kvant Bolshaya Saint Petersburg 73, Velikii-Novgorod 173003, Russia.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 94968, 12/27/16.
	Research and Production Association M.V. Frunze, a.k.a., the following two aliases: —NNPO Frunze; *and* —NZIF Gagarin Prospect 174, Nizhny Novgorod, 606950, Russia.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 94968, 12/27/16.
	RN-Komsomolsky Refinery LLC, a.k.a., the following three aliases: —Komsomolsk Refinery; —LLC RN-Komsomolsk Refinery; *and* —RN-Komsomolski NPZ OOO. 115 Leningradskaya st., Komsomolsk-on-Amur, Khabarovsk region 681007, Russia.	For all items subject to the EAR when used in projects specified in § 746.5 of the EAR.	See § 746.5(b) of the EAR.	80 FR 52968, 9/2/15.
	RN-Yuganskneftegaz LLC, a.k.a., the following two aliases: —RN- Yuganskneftegaz OOO; *and* —Yuganskneftegaz. Lenina St., 26, Nefteyugansk, Tyumen Region, 628309, Russia.	For all items subject to the EAR when used in projects specified in § 746.5 of the EAR.	See § 746.5(b) of the EAR.	80 FR 52968, 9/2/15.

Country	Entity	License requirement	License review policy	FEDERAL REGISTER citation
	Roman Eliseev, a.k.a., the following one alias: —Roman Yeliseyev, 26 General Belov Str Office 19, Moscow, Russia 115583; *and* 26 Generala Belova Street, Office 19, Moscow, Russia 115583; *and* 53 Sherbakovskaya Street, Building 3, Office 509, 105318 Moscow, Russia; *and* 26 General Belov Str, Office 1010, Moscow, Russia 115583; *and* 26 Generala Belova Street, Office 1010, Moscow, Russia 115583; *and* 26 General Belov St Office 415, Moscow, Russia 115583; *and* 26 Generala Belova Street, Office 415, Moscow, Russia 115583.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Rosneft (a.k.a. Open Joint-Stock Company Rosneft Oil Company; a.k.a. OAO Rosneft Oil Company; a.k.a. Oil Company Rosneft; a.k.a. OJSC Rosneft Oil Company; a.k.a. Rosneft Oil Company) Address: 26/1, Sofiyskaya Embankment, 117997, Moscow, Russia	For all items subject to the EAR when used in projects specified in § 746.5 of the EAR.	See § 746.5(b) of the EAR.	79 FR 55612, 9/17/14.
	Ryazan State Instrument Enterprise (RSIE), a.k.a., the following two aliases: —RSIE; *and* —GRPZ Seminarskaya Street 32, Ryazan, 390000, Russia.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 94968, 12/27/16.
	Sakhatrans LLC, a.k.a., the following two aliases: —Obshchestvo S Organichennoi Otvetstvennostyu'sakha (Yakutskaya) Transportnaya Kompaniya, *and* —Sakhatrans OOO 14 ul. Molodezhnaya Rabochi Pos. Vanino, 682860 Vaninski, Raion Khabarovski Krai, Russia	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 24561, 5/1/14.
	Salvation Committee of Ukraine, a.k.a., the following three aliases: —Committee for the Rescue of Ukraine; —Savior of Ukraine Committee; *and* —Ukraine Salvation Committee. Russia.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 61601, 9/7/16.
	Saransk Electronic Company, a.k.a., the following one alias: —APEX Saransk, 5A North Street, Saransk, Republic of Mordovia, Russia 43006; *and* 60 Bolshevistskaya St., Office 905, Saransk, Republic of Mordovia, Russia; *and* 60 Bolshevistskaya St., Office 910, Saransk, Republic of Mordovia, Russia; *and* 5a Severnaya Street, Saransk, Republic of Mordovia, Russia.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.

Country	Entity	License requirement	License review policy	FEDERAL REGISTER citation
	Scientific and Production Association ''Lianozovo Electromechanical Plant'' (NPO LEMZ), a.k.a., the following four aliases: —JSC LEMZ R&P Corporation; —OAO Design Bureau Lianozovsky Radars Moscow; —Lianozovsky Electromechanical factory; *and* —OAO Design Bureau Lianozovsky Radars Moscow Dmitrovskoye Shosse 110, Moscow, 127411, Russia.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 94968, 12/27/16.
	SCTB Engineering, Pr. Yuria Gagarina 1, Office 230, St. Petersburg, Russia 196105; *and* Pr. Yuri Gagarin 1, Office 230, St. Petersburg, Russia 196105.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Sergei Evgenevich Klinov, a.k.a., the following one alias: —Sergey Yevgenyevich Klinov, 26 General Belov St Office 415, Moscow, Russia 115583; *and* 26 Generala Belova Street, Office 415, Moscow, Russia 115583; *and* 53 Sherbakovskaya Street, Building 3, Office 509, 105318 Moscow, Russia; *and* 26 General Belov St Office 1010, Moscow, Russia 115583; *and* 26 Generala Belova St Office 1010, Moscow, Russia 115583.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Sergei G Yuropov, Zastavskaya St 32A, St. Petersburg, Russia 196084; *and* Zastavskaya St. 15–B, St. Petersburg, Russia 196084; *and* Raketnyy Bul'var 15, Moscow, Russia 129164; *and* 16 Raketnyy Bul'var, Moscow, Russia 129164.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Sergey Koynov, a.k.a., the following one alias: —Sergey V. Coyne, 106 Kuybyshev Str, Office 68, Yekaterinburg, Russia (see alternate address in Hong Kong).	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Sergey Nikolayevich Sanaev, a.k.a., the following one alias: —Sergei Nikoleivich Sanev, 5A North Street, Saransk, Republic of Mordovia, Russia 43006; *and* 53 Sherbakovskaya Street, Building 3, Office 509, 105318 Moscow, Russia; *and* 26 General Belov St Office 415, Moscow, Russia 115583; *and* 26 Generala Belova Street, Office 415, Moscow, Russia 115583; *and* 60 Bolshevistskaya St., Office 905, Saransk, Republic of Mordovia, Russia; *and* 60 Bolshevistskaya St., Office 910, Saransk, Republic of Mordovia, Russia; *and* 5a Severnaya Street, Saransk, Republic of Mordovia, Russia.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.

Country	Entity	License requirement	License review policy	FEDERAL REGISTER citation
	SGM Most OOO (f.k.a., Obshchestvo S Ogranichennoi Otvetstvennostyu SGM Most), a.k.a., the following three aliases: —Obshchestvo S Ogranichennoi Otvetstvennostyu 'SGM-Most'; —SGM-Bridge; *and* —SGM-Most, LLC. d. 10 korp. 3 ul. Neverovskogo, Moscow 121170, Russia.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 61601, 9/7/16.
	SMT–K, a.k.a., the following six aliases: —KRYM SMT OOO LLC; —LLC CMT Crimea; —OOO 'CMT–K'; —OOO 'SMT–K'; —SMT-Crimea; *and* —Sovmortrans-Crimea. Anapskoye Highway 1, Temryuk, Russia. (See alternate address under Crimea region of Ukraine).	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 61601, 9/7/16.
	Southeast Trading Oy, a.k.a., the following one alias: —Southeast Trading LTD. St. Petersburg, Russia. (See also addresses under Finland and Romania)	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	80 FR 52968, 9/2/15.
	Sovfracht Managing Company, LLC, a.k.a., the following four aliases: —LLC Sovfracht Management Company; —Management Company Sovfrakht Ltd.; —Sovfracht Management Company; *and* —Sovfracht Management Company, LLC. Dobroslobodskaya, 3 BC Basmanov, Moscow 105066, Russia.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 61601, 9/7/16.
	Sovfracht-Sovmortrans Group, a.k.a., the following two aliases: —Sovfracht-Sovmortrans; *and* —Sovfrakht-Sovmortrans. Rakhmanovskiy Lane, 4, bld.1, Morskoy House, Moscow 127994, Russia; *and* Dobroslobodskaya, 3 BC Basmanov, Moscow 105066, Russia.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 61601, 9/7/16.
	Specelkom, a.k.a., the following one alias: —Special Electronic Components, Ulitsa Mitinskaya 30/4, Moscow, Russia 123430.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	SpekElectronGroup, 72 Lenigradsky Avenue, Bldg 4, Moscow, Russia 125315.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Stanislav Berezovets, Ulitsa Polyany 9/6, Moscow, Russia 117042.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Stanislav Bolt, 9 Lipovaya alleya, St. Petersburg, Russia 197183.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.

Country	Entity	License requirement	License review policy	FEDERAL REGISTER citation
	Stanislav Orelsky, 6 Aptekarskiy Prospekt, Office 710, St. Petersburg, Russia 197376; *and* Naberezhnaya Chernoi Rechki 61–1, St. Petersburg, Russia 197342; *and* 7 Belovodskiy Ln, St. Petersburg, Russia 194044; *and* Belovodskyi Per, 7, St. Petersburg, Russia 194044; *and* Naberegnaja Chernoj Rechki 61–1, 197342, Saint Petersburg, Russia; *and* 16 Parkovaya 30, Office 319, Moscow, Russia 105484.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Stroygazmontazh, a.k.a., the following three aliases: —Limited Liability Company Stroygazmontazh, *and* —SGM, *and* —Stroygazmontazh Corporation 53 prospekt Vernadskogo, Moscow, 119415, Russia	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 24561, 5/1/14.
	Stroytransgaz Group, a.k.a., the following two aliases: —STG Group, *and* —Stroytransgaz 3 Begovaya Street, Building # 1, Moscow, 125284, Russia	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 24561, 5/1/14.
	Stroytransgaz LLC, a.k.a., the following one alias: —OOO Stroytransgaz House 65, Novocheremushkinskaya St., Moscow 117418, Russia	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 24461, 5/1/14.
	Stroytransgaz OJSC, a.k.a., the following one alias: —OAO Stroytransgaz. House 58, Novocheremushkinskaya St., Moscow 117418, Russia	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 24561, 5/1/14.
	Stroytransgaz-M LLC, Novy Urengoy City, 26th Meeting of the Communist Party Street, House 2V, Tyumenskaya Oblast, Yamalo-Nenetsky Autonomous Region 629305, Russia	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 24561, 5/1/14.
	Surgutneftegas (a.k.a. Open Joint Stock Company Surgutneftegas; a.k.a. Otkrytoe Aktsionernoe Obshchestvo Surgutneftegaz; a.k.a. Surgutneftegas OAO; a.k.a. Surgutneftegas OJSC; a.k.a. Surgutneftegaz OAO) Address: ul. Grigoriya Kukuyevitskogo, 1, bld. 1, Khanty-Mansiysky Autonomous Okrug—Yugra, the city of Surgut, Tyumenskaya Oblast 628415, Russia Alt Address: korp. 1 1 Grigoriya Kukuevitskogo ul., Surgut, Tyumenskaya oblast 628404, Russia. Alt Address: Street Kukuevitskogo 1, Surgut, Tyumen Region 628415, Russia	For all items subject to the EAR when used in projects specified in § 746.5 of the EAR.	See § 746.5(b) of the EAR.	79 FR 55612, 9/17/14.
	Svyaz Design Bureau, OJSC, a.k.a., the following one alias: —KB Svyaz Prospect Sokolova 96, Rostov-on-Don 344010, Russia.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 94968, 12/27/16.

Country	Entity	License requirement	License review policy	FEDERAL REGISTER citation
	Systema VP, a.k.a., the following one alias: —Sistema VP, 4 Savelkinskiy Dr., Suite 511–512, Zelenograd, Russia 124482; *and* Savelkinsky Pr 4, Office 512, Zelenograd, Russia 124482; *and* Savelkinskiy Proyedz 4, Office 512, Zelenograd, Russia 124482; *and* 4 Yunost Square, NPZ, Suite 1–7, Zelenograd, Russia 124482; *and* Ofis 511, Prospeckt Savelinksi, Moscow, Russia 124482; *and* 4 Yunost Plaza NPZ, rooms 1–7, Zelenograd, Moscow 124482.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Technopole Company, 5–183 Entuziastov Street, Dubna, Moscow Region, Russia 141980; *and* 12 Aviamotornaya Street, Moscow, Russia 111024.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 61601, 9/7/16.
	Tikhomirov Scientific Research Institute of Instrument Design, JSC (a.k.a., JSC NIIP, f.k.a., Otkrytoe Aktsionernoe Obshchestvo Nauchno Issledovatelski Institute Priborostroeniya Imeni V.V. Tikhomirova; a.k.a. Scientific Research Institute of Instrument Design; a.k.a. JSC V. Tikhomirov Scientific Research Institute of Instrument Design.) Address: 3 Ul. Gagarina, Zhukovski, Moskovskaya Obl 140180, Russia	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 55612, 9/17/14.
	Timur Nikoleavich Edigeev, a.k.a., the following one alias: —Timur Yedigeyev, 53 Sherbakovskaya Street, Building 3, Office 509, 105318 Moscow, Russia; *and* 26 General Belov Str, Office 1010, Moscow, Russia 115583; *and* 26 Generala Belova Street, Office 1010, Moscow, Russia 115583; *and* 26 General Belov St Office 415, Moscow, Russia 115583; *and* 26 Generala Belova Street, Office 415, Moscow, Russia 115583.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Trans-Flot JSC, a.k.a., the following one alias: —JSC Trans-Flot ul Ventseka 1/97, Samara 443099, Russia.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 94968, 12/27/16.
	Transoil, a.k.a., the following four aliases: —Limited Liability Company Transoil, *and* —Transoil LLC, *and* —Transoyl SNG Ltd., *and* —Obshchestvo S Organichernnoi Otvetstvennostyu Transoil 18A Petrogradskaya nab., St. Petersburg, Russia, 197046	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 24561, 5/1/14.
	Transpetrochart Co. Ltd., Prospekt Engelsa 30, St. Petersburg 194156, Russia.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 94968, 12/27/16.

Country	Entity	License requirement	License review policy	FEDERAL REGISTER citation
	Transservice LLC, a.k.a., the following three aliases: —Limited Liability Company Transservis; —Obschestvo S Ogranichennoi Otvetstvennostyu Transservis; *and* —OOO Transservis. 35 Prospekt Gubkina, Omsk, Omskaya Oblast 664035, Russia.	For all items subject to the EAR. (See § 744.11 of the EAR)	Presumption of denial	80 FR 80646, 12/28/15.
	United Shipbuilding Corporation, a.k.a., the following four aliases: —Obedinennaya Sudostroitelnaya Korporatsiya OAO; *and* —OJSC United Shipbuilding Corporation; *and* —United Shipbuilding Corporation Joint Stock Company; *and* —OSK OAO. 90, Marata ul., St. Petersburg 191119, Russia; *and* 11, Sadovaya-Kudrinskaya str., Moscow 123242, Russia.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 45679, 8/6/14.
	Uralvagonzavod, a.k.a., the following eight aliases: —Nauchno-Proizvodstvennaya Korporatsiya Uralvagonzavod OAO; *and* —NPK Uralvagonzavod; *and* —NPK Uralvagonzavod OAO; *and* —OJSC Research and Production Corporation Uralvagonzavod; *and* —Research and Production Corporation Uralvagonzavod; *and* —Research and Production Corporation Uralvagonzavod OAO; *and* —Uralvagonzavod Corporation; *and* —UVZ. 28, Vostochnoye shosse, Nizhni Tagil, Sverdlovsk region 622007, Russia; *and* 28 Vostochnoe shosse, Nizhni Tagil, Sverdlovskaya oblast 622007, Russia; *and* 40, Bolshaya Yakimanka Street, Moscow 119049, Russia.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 42455, 7/22/14.
	Vadim Shuletskiy, 6 Aptekarskiy Prospekt, Office 710, St. Petersburg, Russia 197376; *and* 7 Belovodskiy Ln, St. Petersburg, Russia 194044; *and* Belovodskyi Per, 7, St. Petersburg, Russia 194044, *and* Naberegnaja Chernoj Rechki 61–1, 197342, Saint Petersburg, Russia; *and* 16 Parkovaya 30, Office 319, Moscow, Russia 105484.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Valentina Mazalova, 6 Aptekarskiy Prospekt, Office 710, St. Petersburg, Russia 197376; *and* Naberezhnaya Chernoi Rechki 61–1, St. Petersburg, Russia 197342; *and* 7 Belovodskiy Ln, St. Petersburg, Russia 194044; *and* Belovodskyi Per, 7, St. Petersburg, Russia 194044; *and* Naberegnaja Chernoj Rechki 61–1, 197342, Saint Petersburg, Russia; *and* 16 Parkovaya 30, Office 319, Moscow, Russia 105484.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.

Country	Entity	License requirement	License review policy	FEDERAL REGISTER citation
	Video Logic, 4 Yunost Square, NPZ, Suite 1–7, Zelenograd, Russia 124482.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Viktor Bokovoi, Ulitsa Polyany 9/6, Moscow, Russia 117042.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Vitaliy Nagorniy, Ulitsa Polyany 9/6, Moscow, Russia 117042.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Vladimir Davidenko, 20 Novaya Basmannaya St., Moscow, Russia.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Vladimir Safraonov, 25 Red Cadets Street Letter H, Office Block 2, St. Petersburg, Russia 99034; *and* 130–17 Nevskiy Ave., Saint Petersburg, Russia 191036; *and* 16 Linia V.O., 7 Office 43, St. Petersburg, Russia 99034; *and* Krestovski River Quay 3, Suite 42, St. Petersburg, Russia 197376.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Vladimir Viktorovich Lavrov, Vavilovykh Street 4–2 #267, St. Petersburg, Russia 195257; *and* Zastavskaya St. 32A, St. Petersburg, Russia 196084; *and* Zastavskaya St. 15–B, St. Petersburg, Russia 196084; *and* Raketnyy Bul'var 15, Moscow, Russia 129164; *and* 16 Raketnyy Bul'var, Moscow, Russia 129164.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Vladislav A. Sokolov, 6 Aptekarskiy Prospekt, Office 710, St. Petersburg, Russia 197376; *and* Naberezhnaya Chernoi Rechki 61–1, St. Petersburg, Russia 197342; *and* 7 Belovodskiy Ln, St. Petersburg, Russia 194044; *and* Belovodskyi Per, 7, St. Petersburg, Russia 194044; *and* Naberegnaja Chernoj Rechki 61–1, 197342, Saint Petersburg, Russia; *and* 16 Parkovaya 30, Office 319, Moscow, Russia 105484.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Volga Group, a.k.a., the following three aliases: —Volga Group Investments, *and* —Volga Resources, *and* —Volga Resources Group. Russia (see alternate address under Luxembourg).	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 24561, 5/1/14.
	Vostokgazprom, OAO, a.k.a., the following two aliases: —Otkrytoe Aktsionernoe Obshchestvo 'Vostokgazprom'; *and* —Vostokgazprom. d.73 ul.Bolshaya Podgornaya, Tomsk, Tomskaya obl. 634009, Russia.	For all items subject to the EAR when used in projects specified in § 746.5 of the EAR.	See § 746.5(b) of the EAR.	81 FR 61601, 9/7/16.
	Vyacheslav Y Shillin, Zastavskaya St. 32A, St. Petersburg, Russia 196084; *and* Zastavskaya St. 15–B, St. Petersburg, Russia 196084; *and* Raketnyy Bul'var 15, Moscow, Russia 129164; *and* 16 Raketnyy Bul'var, Moscow, Russia 129164.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.

Country	Entity	License requirement	License review policy	FEDERAL REGISTER citation
	Yamalgazinvest, ZAO, a.k.a., the following two aliases: —Yamalgazinvest; *and* —Zakrytoe Aktsionernoe Obshchestvo 'Yamalgazinvest'. d. 41 korp. 1 prospekt Vernadskogo, Moscow 117415, Russia.	For all items subject to the EAR when used in projects specified in § 746.5 of the EAR.	See § 746.5(b) of the EAR.	81 FR 61601, 9/7/16.
	Yekaterina Parfenova, 4 Savelkinskiy Dr., Suite 511–512, Zelenograd, Russia 124482.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Yevgeniy L Biryukov, Pr. Yuria Gagarina 2, Office 801, St. Petersburg, Russia 196105.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Yuliya L. Molkova-Poluh, a.k.a., the following three aliases: —Yuliya Molkova-Polukh; *and* —Yuliya Leonidovna; Molkova-Polyukh; *and* —Yuliya Molkova-Polah, Zastavskaya St. 32A, St. Petersburg, Russia 196084; *and* Zastavskaya St. 15–B, St. Petersburg, Russia 196084; *and* Raketnyy Bul'var 15, Moscow, Russia 129164; *and* 16 Raketnyy Bul'var, Moscow, Russia 129164.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Yuri A. Krasheninnikov, 9 Lipovaya alleya, St. Petersburg, Russia 197183.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Yuri Savin, 39 Dnepropetrovskaya Str., Build 1, Apt. 287, Moscow, Russia; *and* 36 Mitinskaya St, Building 1, Office 406, Moscow, Russia 125430; *and* 53 Shcherbakovskaya Street, Moscow 105187; *and* 72 Lenigradsky Avenue, Bldg 4, Moscow, Russia 125315.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Yuriy Vasilyevich Kuzminov, a.k.a., the following one alias: —Yuri Kuzminov, 53 Sherbakovskaya Street, Building 3, Office 509, 105318 Moscow, Russia; *and* 26 General Belov Str, Office 19, Moscow, Russia 115583; *and* 26 Generala Belova Street, Office 19, Moscow, Russia 115583.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Yuzhno-Kirinskoye Field, in the Sea of Okhotsk.	For all items subject to the EAR. (See § 746.5 of the EAR).	Presumption of denial	80 FR 47404, 8/7/15.
SINGAPORE	Action Global, (a.k.a., Action Global Co.), Limited, 520 Sims Avenue, #02–04, Singapore 387580 (See alternate addresses under Hong Kong)	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	76 FR 67062, 10/31/11.
	Amanda Sng, 211 Henderson Road, #13–02 Henderson Industrial Park, Singapore 159552.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 14958, 3/21/16.
	Amaze International, Block 1057 Eunos Avenue 3, #02–85, Singapore 409848 (See alternate address under Hong Kong)	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	76 FR 67062, 10/31/11.
	Brian Douglas Woodford, 1 Scotts Road, Suite 25–06 Shaw Centre, Singapore 228208 (See alternate address under the United Kingdom)	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	73 FR 74001, 12/5/08.

Country	Entity	License requirement	License review policy	FEDERAL REGISTER citation
	Corezing International, (a.k.a., CoreZing Electronics, Corezing International Group Company, Corezing International Pte Ltd, Corezing Technology Pte Ltd and Core Zing), 2021 Bukit Batok Street 23, #02–212, Singapore 659626; *and* 111 North Bridge Road, #27–01 Peninsula Plaza, Singapore 179098; *and* 50 East Coast Road, #2–70 Roxy Square, Singapore 428769; *and* Block 1057 Eunos Avenue 3, #2–85, Singapore 409848 (See alternate addresses under China, and Hong Kong)	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	76 FR 67062, 10/31/11.
	Cyberinn PTE LTD, a.k.a., the following alias: —Index Consultancy & Services PTE LTD., 1 Rochor Canal Road, #06–07 Sim Lim Square, 188504, Singapore.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	73 FR 54508, 9/22/08. 77 FR 58006, 9/19/12.
	Gryphon Aerospace, 36 Lorong N Telok Kurau Unit #03–03, Singapore 425160	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	73 FR 74001, 12/5/08.
	Hia Soo Gan Benson, (a.k.a., Benson, Soo Gan Benson Hia and Thomas Yan), Blk 8 Empress Road, #0705, Singapore 260008; *and* 2021 Bukit Batok Street 23, #02–212, Singapore 659626; *and* 111 North Bridge Road, #27–01 Peninsula Plaza, Singapore 179098; *and* 50 East Coast Road, #2–70 Roxy Square, Singapore 428769; *and* Block 1057 Eunos Avenue 3, #02–85, Singapore 409848	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	76 FR 67062, 10/31/11.
	Hossein Ahmad Larijani, 24 Semei Street 1, #06–08, Singapore 52996; *and* 10 Jalan Besar, #11–08 Sim Lim Tower, Singapore 208787 (See alternate addresses under Iran)	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	76 FR 67062, 10/31/11.
	Izix Group Pte Ltd., Number 26 Defu Lane 9, Singapore 539267; *and* 50 Bukit Batok Street, 23 #07–08 Midview Building, Singapore 659578.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 56003, 9/18/14.
	Lim Kow Seng, (a.k.a., Alvin Stanley, Eric Lim, James Wong, Mike Knight and Seng Lim Kow), Blk 751 Woodlands Circle, #10–592, Singapore 730751; *and* 520 Sims Avenue, #02–04, Singapore 387580; *and* 2021 Bukit Batok Street 23, #02–212 Singapore 659626; *and* 111 North Bridge Road, #27–01 Peninsula Plaza, Singapore 179098; *and* 50 East Coast Road, #2–70 Roxy Square, Singapore 428769; *and* Block 1057 Eunos Avenue 3, #02–85, Singapore 409848 (See alternate addresses under Hong Kong)	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	76 FR 67062, 10/31/11.
	Lim Yong Nam, (a.k.a., Lin Rongnan, Steven Lim and Yong Nam Lim),170 Bukit Batok, West Avenue 8, #13–369, Singapore 650170; *and* 158 Kallang Way, #02–505 Kallang Basin, Singapore 349245; *and* 158 Kallang Way #03–511, Singapore 349245; *and* Blk 1001 Tai Seng Ave. #01–2522, Singapore 534411 (See alternate addresses under China)	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	76 FR 67062, 10/31/11.

Country	Entity	License requirement	License review policy	FEDERAL REGISTER citation
	Microsun Electronics Pte. Ltd, Sim Lim Tower, 10 Jalan Besar, Singapore 208787	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	75 FR 1701, 1/13/10.
	Monarch Aviation, 1 Scotts Road, Suite 25–06 Shaw Centre, Singapore 228208	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	73 FR 74001, 12/5/08.
	NEL Electronics, (a.k.a., NEL Electronics Pte Ltd),158 Kallang Way, #02–505 Kallang Basin, Singapore 349245; *and* 158 Kallang Way, #03–511, Singapore 349245; *and* Blk 1001 Tai Seng Ave. #01–2522, Singapore 534411(See alternate addresses under China)	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	76 FR 67062, 10/31/11.
	Opto Electronics Pte. Ltd, Suite 11–08, Sim Lim Tower, 10 Jalan Besar, Singapore 208787	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	75 FR 1701, 1/13/10.
	Surftech Electronics, Block 1057 Eunos Avenue 3, #02–85 Singapore 409848	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	76 FR 67062, 10/31/11.
	Wong Yuh Lan, (a.k.a., Huang Yulan, Jancy Wong and Yuh Lan Wong), Blk 109B Edgedale Plains, #14115, Singapore 822109; *and* 10 Jalan Besar, #11–08 Sim Lim Tower, Singapore 208787	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	76 FR 67062, 10/31/11.
	Yip Kum Kuan, 36 Lorong N Telok Kurau, Unit #03–03, Singapore 425160	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	73 FR 74001, 12/5/08.
SOUTH AFRICA	Gunther Migeotte, 1 River Street, Rosebank, Cape Town, 7700, South Africa; *and* P.O. Box 36623, Menlo Park, 0102, South Africa; *and* 16 Manu Rua, 262 Sprite Avenue, Faerie Glen, 0081, South Africa; *and* Suite 17–106, The Waverley Business Park, Wyecroft Rd., Mowbray, Cape Town, 7925, South Africa (See alternate address under Norway).	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	75 FR 36516, 6/28/10. 77 FR 58006, 9/19/12.
	Icarus Marine (Pty) Ltd., 1 River Street, Rosebank, Cape Town, South Africa; *and* Suite 17–106, The Waverley Business Park, Wyecroft Rd., Mowbray, Cape Town, 7925, South Africa.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	75 FR 36516, 6/28/10. 77 FR 58006, 9/19/12.
	Ralph Brucher, P.O. Box 9523, Centurion 0046, South Africa; *and* Unit 4, Techni Park East, Alwyn Street, Meyerspark Silverton, Pretoria, Gauteng, South Africa; *and* Batter St, Techniec Park East, Silverton, Pretoria, 0184, South Africa; *and* 26 Jakaranda St, Centurion, Gauteng 0157, South Africa; *and* Jacaranda St, Hennopspark Ext 7, Centurion, South Africa.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	75 FR 36516, 6/28/10. 77 FR 58006, 9/19/12.

Country	Entity	License requirement	License review policy	FEDERAL REGISTER citation
	Scavenger Manufacturing (Pty) Ltd., P.O. Box 288, Silverton, Pretoria 0127, South Africa; *and* Unit 4, Techni Park East, Alwyn Street, Meyerspark Silverton, Pretoria, Gauteng, South Africa; *and* Batter St, Techniec Park East, Silverton, Pretoria, 0184, South Africa; *and* 26 Jakaranda St, Centurion, Gauteng 0157, South Africa; *and* Jacaranda St, Hennopspark Ext 7, Centurion, South Africa; *and* P.O. Box 9523, Centurion 0046, South Africa.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	75 FR 36516, 6/28/10. 77 FR 58006, 9/19/12.
	Shawn Hugo De Villiers, 1 River Street, Rosebank, Cape Town 7700, South Africa; *and* Myburgii Street, Somerset West, Cape Town, South Africa; *and* Suite 17–106, The Waverley Business Park, Wyecroft Rd., Mowbray, Cape Town, 7925, South Africa.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	75 FR 36516, 6/28/10. 77 FR 58006, 9/19/12.
SOUTH KOREA	Korea Automation Industry (KAI), D–304, Songdo BRC Smart Valley 30 Songdomirae-ro Yeonsu-gu, Incheon, South Korea 406–840; *and* 4F Miejeong B/D, 405–216, MOK 1-Dong, Yangcheon-Ku, Seoul, South Korea; *and* Number 102–704, Daewoo 2nd, 925–7 Dongchundong, Yeonsu-Ku, Incheon, South Korea.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	80 FR 44849, 7/28/15.
	Joseph Choi, aka Yo-so'p Ch'oe, D–304, Songdo BRC Smart Valley 30 Songdomirae-ro Yeonsu-gu, Incheon, South Korea 406–840; *and* 4F Miejeong B/D, 405–216, MOK 1-Dong, Yangcheon-Ku, Seoul, South Korea.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	80 FR 44849, 7/28/15.
SWEDEN	Catomi Consulting AB, Grev Turegatan 14, 11446 Stockholm, Sweden.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
SWITZERLAND ..	Airfix Aviation Oy, Chemin des Papillons 4, Geneva/Cointrin 1216 Switzerland. (See also address under Finland)	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	80 FR 52968, 9/2/15.
	Beaumont Trading AG, a.k.a., the following one alias: —Beaumont Tradex India. Haldenstrasse 5, Baar (Zug Canton), CH 6342 Switzerland (See alternate addresses in India and the U.A.E.).	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 14958, 3/21/16.
	LTS Holding Limited (f.k.a. IPP-International Petroleum Products Ltd.), Rue du Conseil-General 20, Geneva 1204, Switzerland. (See alternate address under United Kingdom)	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	80 FR 80646, 12/28/15.
	Rosneft Trading S.A., 2, Rue Place du Lac, 1204, Geneva, Switzerland.	For all items subject to the EAR when used in projects specified in § 746.5 of the EAR.	See § 746.5(b) of the EAR.	80 FR 52968, 9/2/15.
SYRIA	Ag Yildiz Insaat Gayrimenkul Tasimacilik Pazarlama Ithalat Ihracat ve Ticaret Ltd. Sirketi, a.k.a., the following four aliases: —Ag Yildiz Cargo; —Ag Yildiz Gayrimenkul; —Yildiz Company; *and* —Yildiz Shipping Company. Al Bab, Syria (See alternate addresses under Iraq and Turkey).	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 57454, 8/23/16.

Country	Entity	License requirement	License review policy	FEDERAL REGISTER citation
	Cham Wings Airlines, Al-Fardous Street, Damascus, Syria	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	76 FR 50410, 8/15/11.
	EKT Electronics, a.k.a. the following four aliases: —Katrangi Electronics; —Katrangi Trading; —Katranji Labs; and —Electronics Systems. #1 floor, 11/A, Abbasieh Building, Hijaz Street, P.O. Box 10112, Damascus, Syria; and #1 floor, 02/A, Fares Building, Rami Street, Margeh, Damascus, Syria (See alternate addresses under Lebanon).	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	73 FR 54509, 9/22/08. 76 FR 50407, 8/15/11. 77 FR 24590, 4/25/12.
	Encyclopedia Electronics Center, a.k.a., Hassan Matni Import Export Co., Nazir Matni Electronics, Mosalam Baroudi Street, P.O. Box 12071, Halbouni, Damascus, Syria	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	73 FR 54503, 9/22/08. 76 FR 50410, 8/15/11.
	Higher Institute of Applied Science and Technology (HIAST), a.k.a., Institut Superieur des Sciences Appliquées et de Technologie (ISSAT), Institut des Sciences Appliquées et de Technologie (ISAT), P.O. Box 31983, Barzeh, Damascus, Syria	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	70 FR 11861, 3/10/05. 76 FR 50410, 8/15/11.
	Industrial Establishment of Defense (IED), a.k.a., Industrial Establishment of Defence (IED), Établissements Industriels de la Défense (EID), Etablissement Industrial de la Defence (ETINDE), Al Thawraa Street, P.O. Box 2330, Damascus, Syria	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	70 FR 11861, 3/10/05. 76 FR 50410, 8/15/11.
	Jamal Jum'ah al-Shawi, Al Bab, Syria.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 57454, 8/23/16.
	Mohammed Katranji, #1 floor, 11/A, Abbasieh Building, Hijaz Street, P.O. Box 10112, Damascus, Syria; and #1 floor, 02/A, Fares Building, Rami Street, Margeh, Damascus, Syria (See alternate address under Lebanon)	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	73 FR 54503, 9/22/08. 76 FR 50410, 8/15/11.
	Muhammad 'ulwan Al-Shawi, Al Bab, Syria	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 57454, 8/23/16.
	National Standards and Calibration Laboratory (NSCL), a.k.a., Scientific Studies and Research Center (SSRC)-NSCL, Institut National Calibration Centre, P.O. Box 4470, Damascus, Syria	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	70 FR 11861, 3/10/05. 76 FR 50410, 8/15/11.
	Scientific Studies and Research Center (SSRC), a.k.a., Center for Scientific Studies and Research (SSRC), Scientific Studies Research Centre (SSRC), Centre d'Etudes et de Recherches Scientifiques (CERS), Center for Study and Research (CERS), Scientific Studies and Research Council, Syrian Scientific Research Council, Scientific Research Council (SRC), P.O. Box 4470, Damascus, Syria	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	70 FR 11861, 3/10/05. 76 FR 50410, 8/15/11.

Country	Entity	License requirement	License review policy	FEDERAL REGISTER citation
	Sekirin Tekstil Ithalat Ihracat Ie ve Dis Ticaret Limited Sirketi, a.k.a., the following seven aliases: —Sekirin Textiles Export Import Limited Company; —Al Shakirin International Transport Company; —Shakirin Company; —Shakrin Company; —Sekirin Ticaret; —Al Shakirin Company; *and* —Sekirin Company. Al Bab, Syria (See alternate addresses under Iraq and Turkey).	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 57454, 8/23/16.
	Ukraine Mediterranean Airlines, a.k.a., UM Airlines, UM Air, 29 Ayar Str., Julia Dumna building, Damascus, Syria (See alternate addresses under Iran and Ukraine)	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	76 FR 50410, 8/15/11.
TAIWAN	Arthur Shyu, 3F–1 No. 52, SEC 2, Chung Shan N. Road, Taipei 104 Taiwan.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	80 FR 22640, 4/23/15.
	Enrich Ever Technologies Co., Ltd., a.k.a., the following one alias: —Enrich Ever Technologies Co., 9F No. 38 Ming-Fu 13th Street, Taoyuan, Taiwan; *and* 8F, No. 431, Da-You Road, Taoyuan, Taiwan.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 40178, 6/21/16.
	Hivocal Technology Company, Ltd., 10F, No. 736, Jhongjheng Road, Jhonghe City, Taipei County 235, Taiwan.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 40178, 6/21/16.
	Hosoda Taiwan Limited, 3F–1 No. 52, SEC 2, Chung Shan N. Road, Taipei 104 Taiwan.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	80 FR 22640, 4/23/15.
	Infinity Wise Technology Limited, Flat/RMA 6/F, Man Wing Building 503–507 Nathan Road Yaumate 1, Taiwan; *and* 8F, No. 431, Da-You Road Taoyuan, Taiwan (See alternate addresses under Hong Kong).	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 40178, 6/21/16.
	Kuang-Su Corporation, 8F, No. 431, Da-You Road, Taoyuan, Taiwan.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 40178, 6/21/16.
	Landstar Tech Company Ltd., 13/F, Number 181, Sec 1, Datong Rd., Sijhih City, Taipei, Taiwan	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	75 FR 7359, 2/19/10.
	Yi-Lan Chen, a.k.a., Kevin Chen, 13/F, Number 181, Sec 1, Datong Rd., Sijhih City, Taipei, Taiwan, and 7th Floor, Number 17, Zhonghua Rd., Sec 2, Xinzhuang City, Taipei, Taiwan	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	75 FR 7359, 2/19/10.
THAILAND	Asian Aviation Logistics Co., Ltd., 21 Tower 2nd Floor Zone A805 Srinakarin Road, Suanluang Bangkok 10250 Thailand; *and* 111/11 Village 0.14 Kingkaew Road, Rajatheva, Bangplee District, Samutprakarn 10540, Thailand; *and* 188/5 Moo 5 Srinakarin Rd, Samrongnua, Muang, Samut Prakarn 10270, Thailand	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	78 FR 75463, 12/12/13.

Country	Entity	License requirement	License review policy	FEDERAL REGISTER citation
	Khalidee Boolay Surinanda, a.k.a., the following one alias: Khalidee Boolay Surinandha. 21 Tower 2nd Floor Zone A805 Srinakarin Road, Suanluang Bangkok 10250 Thailand; *and* 111/11 Village 0.14 Kingkaew Road, Rajatheva, Bangplee District, Samutprakarn 10540, Thailand; *and* 111/11 Village 0.14 King Kaeo Road, Racha Thewa Sub-District, Bang Phli District, Samut Prakarn, 10540, Thailand	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	78 FR 75463, 12/12/13.
	Kosol Surinanda, a.k.a., the following one alias: Kosol Surinandha.140/65 ITF Tower, 27 Floor, Silom Rd., Suriyawongse, Bangrak, Bangkok, 10500, Thailand; *and* 21 Tower 2nd Floor Zone A805 Srinakarin Road, Suanluang Bangkok 10250 Thailand; *and*495 Soi Anamai, Srinakarin Road, Suanluang Bangkok 10250 Thailand;*and* 111/11 Village 0.14 Kingkaew Road, Rajatheva, Bangplee District, Samutprakarn 10540, Thailand; *and* 111/11 Village 0.14 King Kaeo Road, Racha Thewa Sub-District, Bang Phli District, Samut Prakarn, 10540, Thailand	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	78 FR 75463, 12/12/13.
	Mostafa Oveici, a.k.a., the following one alias: Mosi Oveici. 21 Tower 2nd Floor Zone A805 Srinakarin Road, Suanluang Bangkok 10250 Thailand, (See alternate address under Iran)	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	78 FR 75463, 12/12/13.
TURKEY	Abbas Goldoozan, Kimya IC VE Dis Ticaret Ltd., 2nd Floor, No. 2, Istanbul, Turkey; *and* Yesil Tulumba A, Istanbul, Turkey 34134 (See also alternate address under Iran).	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	80 FR 22640, 4/23/15.
	Aeolian Airlines, Ozgur KK No 4 Da 5 Davran Ap Flo, Istanbul, Turkey; *and* Davran Ap Florya, Istanbul, Turkey 34153; *and* Attaturk Airport, Istanbul, Turkey, (See alternate addresses under Greece)	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	78 FR 75463, 12/12/13.
	Ag Yildiz Insaat Gayrimenkul Tasimacilik Pazarlama Ithalat Ihracat ve Ticaret Ltd. Sirketi, a.k.a., the following four aliases: —Ag Yildiz Cargo; —Ag Yildiz Gayrimenkul; —Yildiz Company; *and* —Yildiz Shipping Company. Guneykent Mah. Universite Blv. Tuze Sitesi Alti No: 393/B, Sahinbey, Gaziantep, Turkey (See alternate addresses under Iraq and Syria).	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 57454, 8/23/16.
	Ala al-Shawi, a.k.a., the following one alias: —Abu Cemal. 60147 Caddesi No. 23, Sanayi Mahallesi, Sehitkamil, Gaziantep, Turkey.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 57454, 8/23/16.
	Ali Guzel, 60147 Caddesi No. 23, Sanayi Mahallesi, Sehitkamil, Gaziantep, Turkey.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 57454, 8/23/16.

Country	Entity	License requirement	License review policy	FEDERAL REGISTER citation
	Avistar Havacilik Bilisim Turizm Insaat Sanayi Ve Ticaret Limited Sirketi, Yenibosna Dogu Sanayi Sitesi, 9 Blok No: 1, Bahcelievler—Istanbul, Turkey; *and* Dogu Sanayi Sitesi 9. Blok No:9/1 Yenibosna, Istanbul, Turkey	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	78 FR 75463, 12/12/13.
	Ergin Turker, Yenibosna Dogu Sanayi Sitesi, 9 Blok No: 1, Bahcelievler—Istanbul, Turkey	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	78 FR 75463, 12/12/13.
	Eurocenter Havacilik Dis Ticaret Limited Sirketi, Kemalpasa Mh, Ordu Cad., Yesil Tulumba Sk No 9, Fatih, Istanbul, Turkey; *and* Yesil Tulumba Eminonu Sok No. 9, Eminonu—Istanbul, Turkey 34143; *and* Yesil Tulumba Sk: No 9 Fatih, Eminonu Istanbul, Turkey 34143; *and* Senlikkoy Mahallesi, Ozgur Sk No. 4, Da: 5, Davran Ap Florya, 34153 Istanbul, Turkey	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	78 FR 75463, 12/12/13.
	Golsad Istanbul Trading, a.k.a., the following one alias: —Golsad Import-Export. Kimya IC VE Dis Ticaret Ltd., 2nd Floor, No. 2, Istanbul, Turkey; *and* Yesil Tulumba A, Istanbul, Turkey 34134.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	80 FR 22640, 4/23/15.
	Gulnihal Yegane, Egs Bloklari B–1 Blok K.1 No: 114, Yesilkoy Bakirkoy, Istanbul, Turkey; *and* Huzur mah, Ayazaga Oyak sitesi, 9. Blok, No: 19, Sisli, Istanbul, Turkey; *and* Turgut Reis Mh. Glyimkent Kath Is Merk. K:4 D:4412 Esenler/Istanbul, Turkey; *and* Onucreis Mah. Giyimkent Sitesi 3. Sokak No:118 Esenler/Istanbul, Turkey	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	78 FR 75463, 12/12/13.
	Kral Aviation, a.k.a., the following two aliases: Kral Havacilik Ic Ve Dis Ticaret Sirketi; *and* Kral Aviation Ltd. Senlikkoy Mah, Gumus Sok, No: 1/3, Floor: 11, Florya 134159, Istanbul, Turkey; *and* Senlikkoy Mah. Gumus Sok. No 3/1 Floor: 1 Florya Istanbul, 34153 Turkey *and* Yesilkoy Mh. Ataturk Cad. EGS Business Park Bloklari B2 Blok Kat:6, Istanbul Turkey	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	78 FR 75463, 12/12/13.
	Kral Aviation Services Ltd., Yesilkoy Mh.Ataturk Cd., Esg Business Park B1. B2 K:6 No:234, Bakirkoy Istanbul, Turkey	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	78 FR 75463, 12/12/13.
	Luqman Yasin Yunus Shgragi, a.k.a., the following two aliases: —Lkemanasel Yosef; *and* —Luqman Sehreci. Savcili Mahalesi Turkmenler Caddesi No:2, Sahinbey, Gaziantep, Turkey; *and* Sanayi Mahalesi 60214 Nolu Caddesi No 11, SehitKamil, Gaziantep, Turkey.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 57454, 8/23/16.
	Murat Peker, Mah. Idris Kosku Caddesi Kutu, Sokak No: 1 Pierreloti/Eyup, Instanbul, Turkey	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	78 FR 75463, 12/12/13.

Country	Entity	License requirement	License review policy	FEDERAL REGISTER citation
	Pioneer Logistics Havacilik Turizm Yonetim Danismanlik Ithalat Ihracat San. Tic. Ltd. Sti, Egs Bloklari B–1 Blok Kat: 1 No; 114, Yesilkoy Bakirkoy, Istanbul, Turkey *and* Huzur mah, Ayazaga Oyak sitesi, 9. Blok, No:19, Sisli, Istanbul, Turkey; *and* Turgut Reis Mh. Glyimkent Kath Is Merk. K:4 D:4412 Esenler/Istanbul, Turkey *and* Onucreis Mah. Giyimkent Sitesi 3. Sokak No:118 Esenler/Istanbul, Turkey	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	78 FR 75463, 12/12/13.
	Sekirin Tekstil Ithalat Ihracat Ie ve Dis Ticaret Limited Sirketi, a.k.a., the following seven aliases: —Sekirin Textiles Export Import Limited Company; —Al Shakirin International Transport Company; —Shakirin Company; —Shakrin Company; —Sekirin Ticaret; —Al Shakirin Company; *and* —Sekirin Company. Savcili Mahalesi Turkmenler Caddesi No:2, Sahinbey, Gaziantep, Turkey; *and* Sanayi Mahalesi 60214 Nolu Caddesi No 11, Sehit Kamil, Gaziantep, Turkey (See alternate addresses under Iraq and Syria).	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 57454, 8/23/16.
	Seyyed Abdolreza Mousavi, Kemalpasa Mh, Ordu Cad., Yesil Tulumba Sk No 9, Fatih, Istanbul, Turkey, (See alternate address under Greece)	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	78 FR 75463, 12/12/13.
	Yunus Luqman Yasin Shgragi, a.k.a., the following one alias: —Yunus Sehreci. Savcili Mahalesi Turkmenler Caddesi No: 2, Sahinbey, Gaziantep, Turkey; *and* Sanayi Mahalesi 60214 Nolu Caddesi No 11, SehitKamil, Gaziantep, Turkey.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 57454, 8/23/16.
UGANDA	UCB Arcade, a.k.a., the following alias: —Allied Trading Co. P.O. Box 5999, Kampala, Uganda (See alternate address under Allied Trading Co. in Pakistan).	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	77 FR 58006, 9/19/12.
UKRAINE	*Chernomorneftegaz,* a.k.a., the following two aliases: —Chornomornaftogaz, *and* —NJSC Chornomornaftogaz. Kirova/per. Sovnarkomovskaya, 52/1, Simferopol, Crimea, 95000, Ukraine. (See also Crimea (Occupied)).	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 21396, 4/16/14.
	Donetsk People's Republic, Donetsk Region, Ukraine.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 42455, 7/22/14.

Country	Entity	License requirement	License review policy	FEDERAL REGISTER citation
	Feodosiya Enterprise, a.k.a., the following four aliases: —Feodosia Oil Products Supply Co.; *and* —Feodosiya Enterprise on Providing Oil Products; *and* —Feodosiyske Company for the Oil; *and* —Theodosiya Oil Terminal. Feodosiya, Geologicheskaya str. 2, Crimea 98107, Ukraine; *and* Feodosia, Str. Geological 2, Crimea 98107, Ukraine (See alternate addresses under Crimea (Occupied)).	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 42455, 7/22/14.
	Khors Air Company, 34, Lesi Ukrainki Boulevard, Kiev, 01133, Ukraine; and 10, Mekhanizatoriv Street, Kiev, 03035, Ukraine	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	76 FR 50410, 8/15/11.
	Luhansk People's Republic, a.k.a., the following two aliases: —Lugansk People's Republic —People's Republic of Luhansk Luhansk Region, Ukraine.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 42455, 7/22/14.
	Natalya Totskaya, 34, Lesi Ukrainki Boulevard, Kiev, 01133, Ukraine; and 10, Mekhanizatoriv Street, Kiev, 03035, Ukraine	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	76 FR 50410, 8/15/11.
	Private Joint-Stock Company Mako Holding, a.k.a., the following one alias: —Mako Holding. Bohdan Khmelnytsky Avenue, Building 102, Voroshilovsky District, Donetsk, Donetsk Oblast 83015, Ukraine.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	80 FR 52968, 9/2/15.
	Roman Unytskyi, 34, Lesi Ukrainki Boulevard, Kiev, 01133, Ukraine; and 10, Mekhanizatoriv Street, Kiev, 03035, Ukraine	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	76 FR 50410, 8/15/11.
	Sergei (Sergi) Ivanovich Tomchani, a.k.a., Sergey Ivanovich Tomchani, 34, Lesi Ukrainki Boulevard, Kiev, 01133, Ukraine; and 10, Mekhanizatoriv Street, Kiev, 03035, Ukraine (See alternate addresses under Greece and United Kingdom)	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	76 FR 50410, 8/15/11.
	Ukraine Mediterranean Airlines, a.k.a., UM Airlines, UM Air, 7, Shulyavskaya Str., Kiev, Ukraine (See alternate addresses under Iran and Syria)	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	76 FR 50410, 8/15/11.
UNITED ARAB EMIRATES.	A.H. Shamnad, P.O. Box 42340, Dubai, U.A.E.; and No. 3–4 Sharafia Ahmed Ali Building, Al Nakheel, Deira, Dubai 396, U.A.E	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	73 FR 54503, 9/22/08.
	aBensa FZ LLC, a.k.a. the following one alias: —BiotaGroup Company Al Thuraya Tower 1, 9th Floor, Office 907, P.O. Box: 500097, Dubai, U.A.E.; *and* Al Thuraya Tower 1, Media City, Dubai, U.A.E.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	78 FR 18811, 3/28/13.
	AdCom Systems, Industrial City of Abu Dhabi—ICAD, Abu Dhabi, U.A.E.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 14958, 3/21/16.
	Advanced Targeting Systems Company, LLC (ATS), P.O. Box 34237, High Specialized Economical Zone M41, 103A13, Al Mussafah, Abu Dhabi, U.A.E.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 14958, 3/21/16.

Country	Entity	License requirement	License review policy	FEDERAL REGISTER citation
	Aerostar Asset Management FZC, a.k.a., the following two aliases: Star Aviation Group; *and* Star Aviation Services FZC. Sharjah Airport International Free Zone (Saif Zone), Sharjah, United Arab Emirates; *and* P.O. Box 9300, A2–59, Saif Zone, Sharjah, U.A.E	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	78 FR 75463, 12/12/13.
	Afsari General Trading LLC, Mezzanine Fl, No. M–7, Al Bakhit Centre, Abu-Bakr Rd, Deira, Dubai, U.A.E.; *and* No. 405, Albakhit Centre, Abu-Bakr, AE-Dubai, U.A.E.; *and* P.O. Box 40150, Al Bakhit Centre, Messanine Floor, M–7, Deira, Dubai, U.A.E.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	78 FR 18811, 3/28/13.
	Ahmad Asad Faour, a.k.a., the following one alias: —Ahmad Assad Fa'ur. Industrial Area 11, 28th St, Wave Tech Bldg, Sharjah, U.A.E.; *and* Business Bay, Emirates National Tower, Churchill Bldg, Office 209, Dubai, U.A.E.; *and* P.O. Box 25187, Sharjah, U.A.E.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 32445, 6/5/14.
	Ajab Noor, a.k.a., the following one alias: —Ajab Nur. Box No. 28715, Dubai, U.A.E.; *and* Dubai Tower, Al Maktoum Rd, Al Rigga, Dubai, Near Baniyas Square Metro Station, U.A.E.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	80 FR 8527, 2/18/15.
	Ajab Trading Co. LLC, Box No. 28715, Dubai, U.A.E.; *and* Dubai Tower, Al Maktoum Rd, Al Rigga, Dubai, Near Baniyas Square Metro Station, U.A.E.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	80 FR 8527, 2/18/15.
	al Ajwa al Tiqniah Telecommunications Wire and Wireless Devices, P.O. Box 3421, Sharjah, U.A.E.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 32445, 6/5/14.
	Al-Faris, RAK Free Zone, P.O. Box 10559, Ras Al Khaimah, U.A.E	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	73 FR 54503, 9/22/08.
	Al Maskah Used Car and Spare Parts, Maliha Road, Industrial Area 6, Sharjah, U.A.E.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	77 FR 25055, 4/27/12.
	al Tawasul al Arabi Net Systems, al Tawasul Building, Industrial Area 11, Sharjah, U.A.E.; *and* P.O. Box 25187, Sharjah, U.A.E. (See alternate address under Lebanon).	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 32445, 6/5/14.
	Aletra General Trading (a.k.a., Erman & Sultan Trading Co.), Sabkha Street, Shop No. 8, Dubai, U.A.E	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	76 FR 37633, 6/28/11.
	Alex Ardalan, Al Thuraya Tower 1, 9th Floor, Office 907, P.O. Box: 500097, Dubai, U.A.E.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	78 FR 18811, 3/28/13.

Country	Entity	License requirement	License review policy	FEDERAL REGISTER citation
	Alex Nouri Zadeh, a.k.a. the following three aliases: —Alex Banai; —Alex Norry; *and* —Nouri Zadeh, No. 102 and 106, 1st Floor, K5 Entrance, Alshami Rest. Bldg., Al Muraqqabat Rd., Deira, Dubai, 184609 U.A.E.; *and* P.O. Box 184607, Dubai, U.A.E.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	77 FR 58006, 9/19/12.
	Ali Akbar Yahya, 505 Siraj Building 17B Street, Mankhool, Dubai, U.A.E	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	73 FR 54503, 9/22/08.
	Ali Reza Divanizadeh, Al Ras Center Building, Behind Al Ras Hotel, Shop No. B–05, P.O. Box 5680, Dubai, U.A.E	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	73 FR 54503, 9/22/08.
	Amir Mohammad Zahedi, RAK Free Zone, P.O. Box 10559, Ras Al Khaimah, U.A.E	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	73 FR 54503, 9/22/08.
	Aristeidis A. Pappas, Villa D71, Al Hamra Village, Ras Al Khaimah, U.A.E.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 56003, 9/18/14.
	Atlinx Electronics, Flat 401-Bin Yas Center Al Maktum Road, P.O. Box 42340, Dubai, U.A.E.; and Shops 3–4, Sharafia Ahmed Ali Building, al-Nakheel, Deira, Dubai, U.A.E	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	73 FR 54503, 9/22/08.
	Avia Trust, a.k.a., the following one alias: Avia Trust FZE. Warehouse G–22 PO Box 54541, Dubai Airport Free Zone Dubai, U.A.E	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	78 FR 75463, 12/12/13.
	Beaumont Trading AG, a.k.a., the following one alias: —Beaumont Tradex India. DMCC Business Center, 49 Almas Tower—JLT Dubai, U.A.E. (See alternate addresses in India and Switzerland).	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 14958, 3/21/16.
	Behover General Trading/Information Technologies, a.k.a., the following one alias: —DBA Behover Information Technologies. P.O. Box 25756, Atrium Center Building, Burdubai, Dubai, U.A.E.; *and* Unit M3&4, Atrium Centre, Bank Street Dubai, U.A.E.; *and* P.O. Box 19741, Dubai, U.A.E.; *and* Unit 2009, Prism Tower, Business Bay, Dubai, U.A.E.; *and* P.O. Box 115904, Dubai, U.A.E.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 14958, 3/21/16.

Country	Entity	License requirement	License review policy	FEDERAL REGISTER citation
	Beverly Apigo, P.O. Box 28515, Dubai, U.A.E.; *and* 202 B Sama Tower Sheikh Tayed Road #3 Dubai, U.A.E. P.O. Box 16048; *and* BC2–414, RAK Free Trade Zone, P.O. Box 16048, Ras Al Khaimah, U.A.E.; *and* G1/RAK Free Trade Zone RAK—U.A.E.; *and* G–17 Sheikh Tayed Road #3, Ras Al Khaimah Free Trade Zone, Dubai, U.A.E.; *and* P.O. Box 10559 Ras Al Khaimah, U.A.E.; *and* P.O. Box 25344 Bur Dubai, Dubai, U.A.E.; *and* Suite 608 Atrium Center, Bank St., Bur Dubai, Dubai, U.A.E., P.O. Box 16048; *and* Suite 706 Atrium Center Bank Street, Bur Dubai, Dubai U.A.E.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 14958, 3/21/16.
	Complete Freight Solutions, 704 The Atrium Ctr, Khalid Bin, Dubai, U.A.E; *and* 1st Floor, Office No. 114, Yousef Al Otaiba Bldg, Above Emirates Islamic Bank Office, 2nd December Street (Old Al Dyafah Street), P.O. Box No. 29687, Satwa, Dubai, U.A.E.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 14958, 3/21/16.
	Crescent International Trade and Services FZE, Office No. B34BS33O111, Jebel Ali, U.A.E.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 44683, 8/1/14.
	Cybernet MEA, 202 B Sama Tower Sheikh Tayed Road #3, Dubai, U.A.E., P.O. Box 16048; *and* BC2–414, RAK Free Trade Zone, P.O. Box 16048 Ras Al Khaimah, U.A.E.; *and* G1/RAK Free Trade Zone RAK—U.A.E.; *and* G–17 Sheikh Tayed Road #3, Ras Al Khaimah Free Trade Zone, Dubai, U.A.E.; *and* No. 608 Atrium Center Bank Street, Dubai, U.A.E.; *and* P.O. Box 10559 Ras Al Khaimah, U.A.E.; *and* P.O. Box 116911 Dubai, U.A.E.; *and* P.O. Box 25344 Bur Dubai, Dubai, U.A.E.; *and* Suite 608 Atrium Center Bank Street, Bur Dubai, Dubai, U.A.E.; *and* Suite 706 Atrium Center Bank Street, Bur Dubai, Dubai U.A.E.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 14958, 3/21/16.
	Danoush Trading Company, No. 104, Beside Kheibar Hotel, Morshed Market St., Dubai, U.A.E	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	73 FR 54503, 9/22/08.
	David Khayam, Apt #1811 Manchester Tower, Dubai Marina, Dubai, U.A.E.; *and* PO Box 111831, Al Daghaya, Dubai, U.A.E.; *and* Dubai Shopping Center, Office 13, Dubai, U.A.E.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	78 FR 18811, 3/28/13.
	Divanizadeh General Trading Company, Al Ras Center Building, Behind Al Ras Hotel, Shop No. B–05, P.O. Box 5680, Dubai, U.A.E	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	73 FR 54503, 9/22/08.

Country	Entity	License requirement	License review policy	FEDERAL REGISTER citation
	Donna Lynn Ocampo, P.O. Box 28515, Dubai, U.A.E.; *and* 202 B Sama Tower Sheikh Tayed Road #3 Dubai, U.A.E., P.O. Box 16048; *and* BC2–414, RAK Free Trade Zone P.O. Box 16048 Ras Al Khaimah, U.A.E.; *and* G1/RAK Free Trade Zone RAK—U.A.E.; *and* G–17 Sheikh Tayed Road #3 Ras Al Khaimah Free Trade Zone Dubai, U.A.E.; *and* P.O. Box 10559 Ras Al Khaimah, U.A.E.; *and* P.O. Box 25344 Bur Dubai, Dubai, U.A.E.; *and* Suite 608 Atrium Center, Bank St., Bur Dubai, Dubai, U.A.E. P.O. Box 16048; *and* Suite 706 Atrium Center Bank Street Bur Dubai, Dubai, U.A.E.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 14958, 3/21/16.
	Dow Technology, W–38 Musalla Tower, Dubai, U.A.E.; *and* P.O. Box 5780, Dubai, U.A.E.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 8829, 2/23/16.
	Dr. Artush Parsi, No. 75 Noor Mohammed Taleb Building, Opposite to Ascot Hotel, Khaleed-bin-Valid Rd, Bur Dubai, Dubai, U.A.E.; *and* No. 7 Noor Mohammad Taleb Bldg. Opp. Ascot Hotel Khalid Bin Rd, Dubai, U.A.E.; *and* No. 705, Noor Mohammad Taleb Bldg, Bin Valid Road, Dubai, U.A.E.; *and* P.O. Box 122114, Dubai, U.A.E.; *and* P.O. 111837, Dubai, U.A.E.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	78 FR 18811, 3/28/13.
	Euro Vision Technology LLC, #701 Damas Tower, 702 Al Maktoum St., Dubai, U.A.E.; *and* 701 Attar Tower, Maktoum St. Dubai, U.A.E.; *and* City Tower, Al Maktoum St., Office No. 701, Dubai U.A.E.; *and* P.O. Box 40595, Dubai, U.A.E.; *and* Warehouse No. 8, Plot No. 238, Rashidiya, Dubai, U.A.E.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 8829, 2/23/16.
	Fajr Almadeena Electronics, No. 102 and 106, 1st Floor, K5 Entrance, Alshami Rest. Bldg., Al Muraqqabat Rd., Deira, Dubai, 184609 U.A.E.; *and* P.O. Box 184607, Dubai, U.A.E.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	77 FR 58006, 9/19/12.
	Farrokh Nia Yaghmaei, a.k.a, Farokh Nia Yaghmaei, Flat 401—Bin Yas Center—Al Maktum Road, P.O. Box 42340, Dubai, U.A.E.; and Shops 3–4, Sharafia Ahmed Ali Building, al-Nakheel, Deira, Dubai, U.A.E.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	73 FR 54510, 9/22/08. 76 FR 21631, 4/18/11.
	Feroz Khan, a.k.a., the following three aliases: —Haaje Khan; —Haaji Khan; *and* —Firoz. Maliha Road, Industrial Area 6, Sharjah, U.A.E.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	77 FR 25055, 4/27/12.
	FIMCO FZE, LOB 16, F16401, P.O. Box 61342, JAFZ, U.A.E. (See alternate addresses under Iran).	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 44683, 8/1/14.

Country	Entity	License requirement	License review policy	FEDERAL REGISTER citation
	Frank Genin, a.k.a., the following one alias: —Franck Genin. Villa No. 6 AL WASL RD, 332/45b Jumeira 1, Dubai, Dubai 25344, U.A.E.; *and* Suite 608 Atrium Center, Bank St., Bur Dubai, Dubai, U.A.E., P.O. Box 16048; *and* Suite 706 Atrium Center Bank Street Bur Dubai, Dubai U.A.E.; *and* P.O. Box 10559 Ras Al Khaimah, U.A.E.; *and* P.O. Box 25344 Bur Dubai, Dubai, U.A.E.; *and* 2nd Floor, #202 Sheik Zayed Road Dubai POB 25344 U.A.E.; *and* P.O. Box 28515, Dubai, U.A.E.; *and* 202 B Sama Tower Sheikh Tayed Road #3 Dubai, U.A.E. P.O. Box 16048; *and* BC2–414, RAK Free Trade Zone P.O. Box 16048 Ras Al Khaimah, U.A.E.; *and* G1/RAK Free Trade Zone RAK—U.A.E.; *and* G–17 Sheikh Tayed Road #3 Ras Al Khaimah Free Trade Zone, Dubai, U.A.E. (See alternate address under Hong Kong).	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 14958, 3/21/16.
	FWS Trading FZE, Rainbow No. 1212, Ajman Free Zone, Ajman, U.A.E.; *and* City Tower 2, Office #2004, Dubai, U.A.E.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 8829, 2/23/16.
	Ghasem Afsari, No. 405, Albakhit Centre, Abu-Bakr, AE-Dubai, U.A.E.; *and* P.O. Box 40150, Al Bakhit Centre, Messanine Floor, M–7, Deira, Dubai, U.A.E.; *and* Mezzanine Fl, No. M–7, Al Bakhit Centre, Abu-Bakr Rd, Deira, Dubai, U.A.E.; *and* No. 75 Noor Mohammed Taleb Building, Opposite to Ascot Hotel, Khaleed-bin-Valid Rd, Bur Dubai, Dubai, U.A.E.; *and* No. 7 Noor Mohammad Taleb Bldg. Opp. Ascot Hotel Khalid Bin Rd, Dubai, U.A.E.; *and* No. 705, Noor Mohammad Taleb Bldg, Bin Valid Road, Dubai, U.A.E.; *and* P.O. Box 122114, Dubai, U.A.E.; *and* P.O. 111837, Dubai, U.A.E.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	78 FR 18811, 3/28/13.
	Glasgow International Trading, a.k.a., the following one alias: Glasgow International General Trading LLC. P.O. Box 6462, Dubai, U.A.E.; *and* P.O. Box 42064, Dubai U.A.E	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	78 FR 75463, 12/12/13.
	Global Merchant General Trading LLC, P.O. Box 39960, Dubai, U.A.E.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 40178, 6/21/16.
	Gulf Eagle Contracting (GEC), P.O. Box 31814, Al Dhafra Road, New Airport Road, Abu Dhabi, U.A.E.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 14958, 3/21/16.
	Gulf Eagle Industrial and Metal Profiles (GEIMP), P.O. Box 31814, Al Mussafah Industrial City, Abu Dhabi, U.A.E.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 14958, 3/21/16.

Country	Entity	License requirement	License review policy	FEDERAL REGISTER citation
	Gulf Gate Sea Cargo LLC, No. 508, Bldg P–114, Almaktoum Road, Deirah, Dubai, United Arab Emirates; *and* P.O. Box 39948, Dubai, U.A.E.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 40178, 6/21/16.
	Gulf Gate Shipping Co. LLC, No. 508, Bldg P–114, Almaktoum Road, Deirah, Dubai, United Arab Emirates; *and* P.O. Box 39948, Dubai, U.A.E.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 40178, 6/21/16.
	H. Ghasir, Flat 401-Bin Yas Center—Al Maktum Road, P.O. Box 42340, Dubai, U.A.E.; and Shops 3–4, Sharafia Ahmed Ali Building, al-Nakheel, Deira, Dubai, U.A.E	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	73 FR 54503, 9/22/08.
	Hamed Al Fahid Trading Company, Shop No. 3–4, Ahmed Ali Bldg., Al Jalel, Deira, Dubai, U.A.E	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	73 FR 54503, 9/22/08.
	Hamed Athari, No. 3–4 Sharafia Ahmed Ali Building, Al Nakheel, Deira, Dubai 396, U.A.E	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	73 FR 54503, 9/22/08.
	Hamed Kianynejad, Rainbow No. 1212, Ajman Free Zone, Ajman, U.A.E.; City Tower 2, Office #2004, Dubai, U.A.E.; *and* City Tower 2, 20th Floor, Office #2005, Sheikh Zayed Road, Dubai, U.A.E.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 8829, 2/23/16.
	Hamid Rashed, Apt #1811 Manchester Tower, Dubai Marina, Dubai, U.A.E.; *and* PO Box 111831, Al Daghaya, Dubai, U.A.E.; *and* Dubai Shopping Center, Office 13, Dubai, U.A.E.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	78 FR 18811, 3/28/13.
	Hamideh Ghayour, P.O. Box 155904, Dubai, U.A.E.; and Unit M3&4, Atrium Centre, Bank Street Dubai, U.A.E.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 14958, 3/21/16.
	Hassan Dow, W–38 Musalla Tower, Dubai, U.A.E.; *and* P.O. Box 5780, Dubai, U.A.E.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 8829, 2/23/16.
	Husayn Fa'ur, a.k.a., the following one alias: —Hussein Faour. Beirut Hadath, Morjan Bldg near Sfeir Bridge, Lebanon; *and* Industrial Area 11, 28th St, Wave Tech Bldg, Sharjah, U.A.E. (See alternate address under Lebanon).	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 32445, 6/5/14.
	Indira Mirchandani, Town House 1033 Uptown Mirdif, Mirdif, Algeria Street, Dubai, U.A.E.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 56003, 9/18/14.
	Infotec, a.k.a., the following two aliases: —Info Tech, *and* —I. Tec Trading FZE, P.O. Box 10559, Ras Al Khaimah, U.A.E.; *and* Ras Al Khaimah Free Trade Zone (RAKFTZ), U.A.E.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	76 FR 78146, 12/16/11. 77 FR 71098, 11/29/12.
	Innovative Technology Systems (ITS), 2nd Floor, #202 Sheik Zayed Road Dubai, POB 25344, U.A.E.; *and* Suite 608 Atrium Center, Bank Street, Bur Dubai, Dubai, U.A.E; *and* Suite 706 Atrium Center Bank Street, Bur Dubai, Dubai U.A.E.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 14958, 3/21/16.

Country	Entity	License requirement	License review policy	FEDERAL REGISTER citation
	Jamal Hasan, a.k.a. the following alias: —Jamal Haji, No. 102 and 106, 1st Floor, K5 Entrance, Alshami Rest. Bldg., Al Muraqqabat Rd., Deira, Dubai, 184609 U.A.E.; *and* P.O. Box 184607, Dubai, U.A.E.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	77 FR 58006, 9/19/12.
	Kadin Satco FZE, No. 28 Street 6, Phase Springs 10, Emirates Hills, Dubai, U.A.E	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	78 FR 75463, 12/12/13.
	Khosrow Kasraei, P.O. Box 61342, Jebel Ali, U.A.E.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 44683, 8/1/14.
	Liberty House Trading LLC, a.k.a. the following two aliases: -Baet Alhoreya Electronics Trading; *and* -Baet Alhoreya, Apt #1811 Manchester Tower, Dubai Marina, Dubai, U.A.E.; *and* PO Box 111831, Al Daghaya, Dubai, U.A.E.; *and* Dubai Shopping Center, Office 13, Dubai, U.A.E.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	78 FR 18811, 3/28/13.
	Majidco Micro Electronics, Flat 401-Bin Yas Center—Al Maktum Road, P.O. Box 42340, Dubai, U.A.E.; and Shops 3–4, Sharafia Ahmed Ali Building, al-Nakheel, Deira, Dubai, U.A.E	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	73 FR 54503, 9/22/08.
	Managed Systems and Services (MSAS)(FZC), No. A3089 Seif Sharjah U.A.E.; *and* SAIF Zone 250 M2 Warehouse P60–109, P.O. Box 122550, Sharjah, U.A.E.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 14958, 3/21/16.
	Mayrow General Trading, Flat 401-Bin Yas Center—Al Maktum Road, P.O. Box 42340, Dubai, U.A.E.; Shops 3–4, Sharafia Ahmed Ali Building, al-Nakheel, Deira, Dubai, U.A.E.; P.O. Box 42340, Deira, Dubayy, U.A.E. and P.O. Box 171978, Deira, Dubayy, U.A.E	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	73 FR 54503, 9/22/08.
	Mayrow Technics Co., No. 3–4 Sharafia Ahmed Ali Building, Al Nakheel, Deira, Dubai 396, U.A.E	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	73 FR 54503, 9/22/08.
	Mehdi Jafariyeh, a.k.a., the following one alias: —Mehdi Jeffery. P.O. Box 28515, Dubai, U.A.E.; *and* 202 B Sama Tower Sheikh Tayed Road #3 Dubai, U.A.E., P.O. Box 16048; *and* BC2–414, RAK Free Trade Zone P.O. Box 16048 Ras Al Khaimah, U.A.E.; *and* G 1/RAK Free Trade Zone RAK—U.A.E.; *and* G–17 Sheikh Tayed Road #3 Ras Al Khaimah Free Trade Zone, Dubai, U.A.E. *and* P.O. Box 10559 Ras Al Khaimah, U.A.E.; *and* P.O. Box 25344 Bur Dubai, Dubai, U.A.E.; *and* Suite 608 Atrium Center, Bank St., Bur Dubai, Dubai, U.A.E., P.O. Box 16048; *and* Suite 706 Atrium Center Bank Street Bur Dubai, Dubai U.A.E.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 14958, 3/21/16.
	Mehdi Rafie, Shop No. 3 & 4, Sharafia Ahmed Ali Bldg., Al Nakheel St., Deira, P.O. Box 171978, Dubai, U.A.E.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	73 FR 54503, 9/22/08.

Country	Entity	License requirement	License review policy	FEDERAL REGISTER citation
	Mehran Kamalinia, a.k.a. Ronald Simon, Shop No. 3 & 4, Sharafia Ahmed Ali Bldg., Al Nakheel St., Deira, P.O. Box 171978, Dubai, U.A.E	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	73 FR 54503, 9/22/08.
	Mehrdad Moeinansari, a.k.a., the following one alias: —Mehrdad Ansari. No 7101, Index Tower DIFC, Dubai, U.A.E.; *and* No 508, Sheikha Maryam Bldg., Deirah, Dubai, U.A.E. 39948.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 40178, 6/21/16.
	Micatic General Trading, Flat 401-Bin Yas Center—Al Maktum Road, P.O. Box 42340, Dubai, U.A.E.; and Shops 3–4, Sharafia Ahmed Ali Building, al-Nakheel, Deira, Dubai, U.A.E	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	73 FR 54503, 9/22/08.
	Micro Middle East Electronics, Flat 401-Bin Yas Center—Al Maktum Road, P.O. Box 42340, Dubai, U.A.E.; and Shops 3–4, Sharafia Ahmed Ali Building, al-Nakheel, Deira, Dubai, U.A.E	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	73 FR 54503, 9/22/08.
	Moh Khoman, No. 405, Albakhit Centre, Abu-Bakr, AE-Dubai, U.A.E.; *and* P.O. Box 40150, Al Bakhit Centre, Messanine Floor, M–7, Deira, Dubai, U.A.E.; *and* Mezzanine Fl, No. M–7, Al Bakhit Centre, Abu-Bakr Rd, Deira, Dubai, U.A.E.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	78 FR 18811, 3/28/13.
	Mohamad Javad, No. 405, Albakhit Centre, Abu-Bakr, AE-Dubai, U.A.E.; *and* P.O. Box 40150, Al Bakhit Centre, Messanine Floor, M–7, Deira, Dubai, U.A.E.; *and* Mezzanine Fl, No. M–7, Al Bakhit Centre, Abu-Bakr Rd, Deira, Dubai, U.A.E.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	78 FR 18811, 3/28/13.
	Mohammad Nayeb, No. 102 and 106, 1st Floor, K5 Entrance, Alshami Rest. Bldg., Al Muraqqabat Rd., Deira, Dubai, 184609 U.A.E.; *and* P.O. Box 184607, Dubai, U.A.E.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	77 FR 58006, 9/19/12.
	Mohsen Saghafi, Shop No. 3 & 4, Sharafia Ahmed Ali Bldg., Al Nakheel St., Deira, P.O. Box 171978, Dubai, U.A.E	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	73 FR 54503, 9/22/08.
	Mojtaba Alikhani, Rainbow No. 1212, Ajman Free Zone, Ajman, U.A.E.; *and* City Tower 2, Office #2004, Dubai, U.A.E.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 8829, 2/23/16.
	Mostafa Salehi, No. 308, 3rd Floor, Rafi Center, Al Nakheel, Deira, Dubai, U.A.E	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	73 FR 54503, 9/22/08.
	Mujahid Ali, a.k.a. the following one alias: —Mujahid Ali Mahmood Ali Office No. B34BS33O111, Jebel Ali, U.A.E.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 44683, 8/1/14.
	Narinco, Flat 401-Bin Yas Center—Al Maktum Road, P.O. Box 42340, Dubai, U.A.E.; and Shops 3–4, Sharafia Ahmed Ali Building, al-Nakheel, Deira, Dubai, U.A.E	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	73 FR 54503, 9/22/08.
	Neda Overseas Electronics L.L.C., No. 308, 3rd Floor, Rafi Center, Al Nakheel, Deira, Dubai, U.A.E	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	73 FR 54503, 9/22/08.

Country	Entity	License requirement	License review policy	FEDERAL REGISTER citation
	Next Gulf Trading LLC, No. 75 Noor Mohammed Taleb Building, Opposite to Ascot Hotel, Khaleed-bin-Valid Rd, Bur Dubai, Dubai, U.A.E.; *and* No. 7 Noor Mohammad Taleb Bldg. Opp. Ascot Hotel Khalid Bin Rd, Dubai, U.A.E.; *and* No. 705, Noor Mohammad Taleb Bldg, Bin Valid Road, Dubai, U.A.E.; *and* P.O. Box 122114, Dubai, U.A.E.; *and* P.O. 111837, Dubai, U.A.E.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	78 FR 18811, 3/28/13.
	Noun Nasreddine, a.k.a., the following one alias: —N.A. Nasreddine. #701 Damas Tower, 702 Al Maktoum St., Dubai, U.A.E.; *and* 701 Attar Tower, Maktoum St. Dubai, U.A.E.; *and* City Tower, Al Maktoum St., Office No. 701, Dubai U.A.E.; *and* P.O. Box 40595, Dubai, U.A.E.; *and* Warehouse No. 8, Plot No. 238, Rashidiya, Dubai, U.A.E.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 8829, 2/23/16.
	Patco Group Ltd, P.O. Box 20470, Ajman, U.A.E.; *and* Ajman Free Zone Bldg., 48-Block-C Meena Road near Ajman Sea Port, Ajman, U.A.E.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 14958, 3/21/16.
	Perfect Tyre Trading Co LLC, Al Ain—Al Sanaiya—Inh. Mohammed Sultan Aldarmaki—Bld, Dubai, U.A.E.; *and* Post Box No. 67221, Abu Dhabi, U.A.E.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	80 FR 8527, 2/18/15.
	Pyramid Technologies, P.O. Box 42340, Dubai, U.A.E.; and No. 3–4, Sharafia Ahmed Ali Building, Al Nakheel, Deira, Dubai 396, U.A.E	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	73 FR 54503, 9/22/08.
	Rainbow General Trading Company, City Tower 2, 20th Floor, Office #2005, Sheikh Zayed Road, Dubai, U.A.E.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 8829, 2/23/16.
	Reza Ghoreishi, P.O. Box 61342, Jebel Ali, U.A.E.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 56003, 9/18/14.
	Reza Hajigholamali, P.O. Box 20470, Ajman, U.A.E.; *and* Ajman Free Zone Bldg., 48-Block-C Meena Road near Ajman Sea Port, Ajman, U.A.E (See alternate address under Iran).	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 14958, 3/21/16.
	Rose Ann Apigo, P.O. Box 28515, Dubai, U.A.E.; *and* 202 B Sama Tower Sheikh Tayed Road #3 Dubai, U.A.E., P.O. Box 16048; *and* BC2–414, RAK Free Trade Zone P.O. Box 16048 Ras Al Khaimah, U.A.E.; *and* G1/RAK Free Trade Zone RAK—U.A.E.; *and* G–17 Sheikh Tayed Road #3 Ras Al Khaimah Free Trade Zone, Dubai, U.A.E.; *and* P.O. Box 10559 Ras Al Khaimah, U.A.E.; *and* P.O. Box 25344 Bur Dubai, Dubai, U.A.E.; *and* Suite 608 Atrium Center, Bank St., Bur Dubai, Dubai, U.A.E., P.O. Box 16048; *and* Suite 706 Atrium Center Bank Street, Bur Dubai, Dubai U.A.E.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 14958, 3/21/16.
	Saeed Talebi, a.k.a., the following two aliases: Al; *and* Allen Talebi. No. 28 Street 6, Phase Springs 10, Emirates Hills, Dubai, U.A.E., (See alternate addresses under Canada and Iran)	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	78 FR 75463, 12/12/13.

Country	Entity	License requirement	License review policy	FEDERAL REGISTER citation
	Sawa Air Aviation FZCO, a.k.a., the following two aliases: Sawa Aviation; *and* Sawa Air. P.O. Box 42707, Al Sahel Bldg, Fish Round About, Deira, Dubai, U.A.E. 254	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	78 FR 75463, 12/12/13.
	Seyed Mahdi Mousavi, P.O. Box 49465, Dubai, UAE; *and* P.O. Box 7941, Dubai, U.A.E. (See alternate addresses under Iran).	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	77 FR 58006, 9/19/12.
	Seyed Mousavi Trading, a.k.a., the following two aliases: —Hitech Computer Peripherals; *and* —Hitech Corporation. P.O. Box 49465, Dubai, UAE; *and* P.O. Box 7941, Dubai, U.A.E. (See alternate addresses under Iran).	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	77 FR 58006, 9/19/12.
	Shaji Muhammed Basheer, a.k.a. the following alias: —S. Basheer. Shop No. 3 & 4, Sharafia Ahmed Ali Bldg., Al Nakheel St., Deira, P.O. Box 171978, Dubai, U.A.E	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 24590, 4/25/12.
	Skylinks FZC, a.k.a., the following two aliases: —Skylinks; *and* —Skylinks Satellite Comm. P.O. Box 28515, Dubai, U.A.E.; *and* 202 B Sama Tower Sheikh Tayed Road #3 Dubai, U.A.E., P.O. Box 16048; *and* BC2–414, RAK Free Trade Zone P.O. Box 16048 Ras Al Khaimah, U.A.E.; *and* G1/RAK Free Trade Zone RAK—U.A.E.; *and* G–17 Sheikh Tayed Road #3 Ras Al Khaimah Free Trade Zone, Dubai, U.A.E.; *and* P.O. Box 10559 Ras Al Khaimah, U.A.E.; *and* P.O. Box 25344 Bur Dubai, Dubai, U.A.E.; *and* Suite 608 Atrium Center, Bank St., Bur Dubai, Dubai, U.A.E., P.O. Box 16048; *and* Suite 706 Atrium Center Bank Street, Bur Dubai, Dubai U.A.E. 3 (See alternate address under Hong Kong).	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 14958, 3/21/16.
	Source Com, Sharjah Airport, SAIF Zone P6 Area 191, Sharjah, U.A.E.; *and* P.O. Box 120291, Sharjah, U.A.E.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 32445, 6/5/14.
	Syed Amir Ahmed Najfi, Sabkha Street, Shop No. 8, Dubai, U.A.E	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	76 FR 37633, 6/28/11.
	Taha Mansur, a.k.a., the following one alias: —Taha Mansour. P.O. Box 389, Dubai, U.A.E.; *and* Al Quoz Warehouse, Dubai, U.A.E.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 32445, 6/5/14.
	Teofila Logistics, Office 228, Al Aatar Shopping Mall, P.O. Box 115824, Karama, Dubai, U.A.E.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 14958, 3/21/16.
	TGO General Trading LLC, a.k.a., the following one alias: —Three Green Orbit. 19th Floor Festival Tower, Festival City, P.O. Box 36605, Dubai, U.A.E.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 14958, 3/21/16.

Country	Entity	License requirement	License review policy	FEDERAL REGISTER citation
	Thrust Aviation FZE, 17c–F3 PO Box 5406 Fujairah Free Zone, Fujairah U.A.E.; *and* PO Box 5232 Fujairah Free Zone, Fujairah U.A.E.; *and* Q4–168 PO 8318 Sharjah Free Zone, Sharjah, U.A.E	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	78 FR 75463, 12/12/13.
	T.V. Joe Ouseppachan, Office 228, Al Aatar Shopping Mall, P.O. Box 115824, Karama, Dubai, U.A.E.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	81 FR 14958, 3/21/16.
	Waseem Jawad, Ras Al Khaimah Free Trade Zone (RAKFTZ), U.A.E.; *and* P.O. Box: 25123, Dubai U.A.E	For all items subject to the EAR. (See § 744.11 of the EAR)	Presumption of denial	76 FR 78148, 12/16/11.
	Wave Tech Computers, Industrial Area 11, 28th St, Wave Tech Bldg, Sharjah, U.A.E.; *and* P.O. Box 3421, Sharjah, U.A.E.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 32445, 6/5/14.
	Wave Tech Group, Business Bay, Emirates National Tower, Churchill Bldg, Office 209, Dubai, U.A.E.; *and* P.O. Box 30686, Dubai, U.A.E.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 32445, 6/5/14.
	Zurmat General Trading, Office No. 205, Platinum Business Center, Baghdad Street, Al-Nahda 2, Al-Qusais, Dubai, U.A.E.; *and* P.O. Box No. 171452, Dubai, U.A.E.; *and* 1st Street, Industrial Area 4th, Sharjah, U.A.E. (Behind the Toyota Showroom), *and* P.O. Box 35470, Sharjah, U.A.E.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	77 FR 25055, 4/27/12.
	Zurmat General Trading, Office No. 205, Platinum Business Center, Baghdad Street, Al-Nahda 2, Al-Qusais, Dubai, U.A.E.; *and* P.O. Box No. 171452, Dubai, U.A.E.; *and* 1st Street, Industrial Area 4th, Sharajah, U.A.E. (Behind the Toyota Showroom), *and* P.O. Box 35470, Sharajah, U.A.E.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	77 FR 25057, 4/27/12.
UNITED KINGDOM.	A.P. Finance Limited, 38, Princes Court—88 Brompton Road, Knightsbridge, London, SW3 1ES, United Kingdom; and Enterprise House, 113/115 George Lane, London, E18 1AB, United Kingdom	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	76 FR 50410, 8/15/11.
	Anatolii Pysarenko, 38, Princes Court—88 Brompton Road Knightsbridge, London, SW3 1ES, United Kingdom; and Enterprise House,113/115 George Lane, London, E18 1AB, United Kingdom	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	76 FR 50410, 8/15/11.
	Brian Douglas Woodford (See alternate address under Singapore)	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	73 FR 74001, 12/5/08.
	Farshid Gillardian, a.k.a., Isaac Gill, Isaac Gillardian, London, United Kingdom	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	73 FR 74001, 12/5/08.
	Fentex Properties LTD., Tortola, British Virgin Islands.	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	80 FR 80646, 12/28/15.
	Flamar Shipping Ltd, P.O. Box 3321, Road Town, Tortola, British Virgin Islands.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	IKCO Finance 6 Lothbury, London, England, EC2R 7HH	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	77 FR 24590, 4/25/12.

Country	Entity	License requirement	License review policy	FEDERAL REGISTER citation
	Latebrook Trading Ltd, Drake Chambers, Road Town, Tortola, British Virgin Islands.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	LTS Holding Limited (f.k.a. IPP-International Petroleum Products Ltd.), Tortola, British Virgin Islands. (See alternate address under Switzerland).	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	80 FR 80646, 12/28/15.
	MCES, London, United Kingdom	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	73 FR 74001, 12/5/08.
	Myra Gkizi, 38, Princes Court—88 Brompton Road, Knightsbridge, London, SW3 1ES, United Kingdom	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	76 FR 50410, 8/15/11.
	Nelford United Corp, P.O. Box 3321, Road Town, Tortola, British Virgin Islands.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Niki Panteli Kyriakou, 38, Princes Court—88 Brompton Road, Knightsbridge, London, SW3 1ES, United Kingdom (See alternate address under Cyprus)	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	76 FR 50410, 8/15/11.
	Oystercredit Ltd Ogb, OMC Chambers, Wickhams Cay 1, Road Town, Tortola, British Virgin Islands.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Profin Estates, Inc., Palm Chambers 5, Suite 120, The Lake Building, Wickhams Cay 1, P.O. Box 3175, Road Town, Tortola, British Virgin Islands	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Sergei (Sergi) Ivanovich Tomchani, a.k.a., Sergey Ivanovich Tomchani, 38, Princes Court—88 Brompton Road, Knightsbridge, London, SW3 1ES, United Kingdom; and Enterprise House 113/115 George Lane, London, E18 1AB, United Kingdom (See alternate addresses under Greece and Ukraine)	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	76 FR 50410, 8/15/11.
	Southport Management Services Limited, De Castro Street 24, Akara Building, Wickhams Cay 1, Road Town, Tortola, Virgin Islands, British. (See also address under Cyprus).	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	80 FR 52968, 9/2/15.
	Unimont S.A., Drake Chambers, P.O. Box 3321, Road Town, Tortola, British Virgin Islands.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.
	Veteran Avia LLC a.k.a., the following alias: —Veteran Airline 1 Beckett Place, South Hamptonshire, London, U.K. (See also addresses under Armenia, Greece, India, and Pakistan).	For all items subject to the EAR. (See § 744.11 of the EAR).	Presumption of denial	79 FR 56003, 9/18/14. 81 FR 8829, 2/23/16.
	Voltero Alliance LLP, 45–51 Newhall Street 330, Birmingham, West Midlands, B3 3RB, United Kingdom.	For all items subject to the EAR. (See § 744.11 of the EAR.).	Presumption of denial	77 FR 61256, 10/9/12.

[63 FR 64325, Nov. 19, 1998]

EDITORIAL NOTE: For FEDERAL REGISTER citations affecting supplement no. 4 to part 744, see the List of CFR Sections Affected, which appears in the Finding Aids section of the printed volume and at *www.fdsys.gov*.

SUPPLEMENT NO. 5 TO PART 744—PROCEDURES FOR END-USER REVIEW COMMITTEE ENTITY LIST DECISIONS

The End-User Review Committee (ERC), composed of representatives of the Departments of Commerce, State, Defense, Energy and, where appropriate, the Treasury, will make all decisions to make additions to, removals from or changes to the Entity List. The ERC will be chaired by the Department of Commerce and will make all decisions to add an entry to the Entity List by majority vote and all decisions to remove or modify an entry by unanimous vote.

When determining to add an entity to the Entity List or to modify an existing entry, the ERC will also specify the section or sections of the EAR that provide the basis for that determination. In addition, if the section or sections that form the basis for an addition or modification do not specify the license requirements, the license application review policy or the availability of license exceptions, the ERC will specify the license requirements, the license application review policy and which license exceptions (if any) will be available for shipments to that entity.

Any agency that participates in the ERC may make a proposal for an addition to, modification of or removal of an entry from the Entity List by submitting that proposal to the chairman.

The ERC will vote on each proposal no later than 30 days after the chairman first circulates it to all member agencies unless the ERC unanimously agrees to postpone the vote. If a member agency is not satisfied with the outcome of the vote of the ERC that agency may escalate the matter to the Advisory Committee on Export Policy (ACEP). A member agency that is not satisfied with the decision of the ACEP may escalate the matter to the Export Administration Review Board (EARB). An agency that is not satisfied with the decision of the EARB may escalate the matter to the President.

The composition of the ACEP and EARB as well as the procedures and time frames shall be the same as those specified in Executive Order 12981 as amended by Executive Orders 13020, 13026 and 13117 for license applications. If at any stage, a decision by majority vote is not obtained by the prescribed deadline the matter shall be raised to the next level.

A final decision by the ERC (or the ACEP or EARB or the President, as may be applicable in a particular case) to make an addition to, modification of, or removal of an entry from the Entity List shall operate as clearance by all member agencies to publish the addition, modification or removal as an amendment to the Entity List even if, in the case of a decision by the ERC to add an entry or any decision by the ACEP or EARB, such decision is not unanimous. Such amendments will not be further reviewed through the regular Export Administration Regulations interagency review process.

A proposal by the ERC to make any change to the EAR other than an addition to, modification of, or removal of an entry from the Entity List shall operate as a recommendation and shall not be treated as interagency clearance of an EAR amendment. The chairman of the ERC will be responsible for circulating to all member agencies proposals submitted to him by any member agency. The chairman will be responsible for serving as secretary to the ACEP and EARB for all review of ERC matters. The chairman will communicate all final decisions that require Entity List amendments or individual ''is informed'' letters, to the Bureau of Industry and Security which shall be responsible for drafting the necessary changes to the Entity List. If the ERC decides in a particular case that a party should be informed individually instead of by EAR amendment the chairman will be responsible for preparing the ''is informed'' letter for the signature of the Deputy Assistant Secretary for Export Administration.

A listed entity may present a request to remove or modify its Entity List entry along with supporting information to the chairman at Room 3886, U.S. Department of Commerce, 14th Street and Pennsylvania Avenue, NW., Washington, DC 20230. The chairman shall refer all such requests and supporting information to all member agencies. The member agencies will review and vote on all such requests. The time frames, procedures and right of escalation by a member agency that is dissatisfied with the results that apply to proposals made by a member agency shall apply to these requests. The decision of the ERC (or the ACEP or EARB or the President, as may be applicable in a particular case) shall be the final agency decision on the request and shall not be appealable under part 756 of the EAR. The chairman will prepare the response to the party who made the request. The response will state the decision on the request and the fact that the response is the final agency decision on the request. The response will be signed by the Deputy Assistant Secretary for Export Administration.

The End-User Review Committee will conduct a review of the entire Entity List at least once per year for the purpose of determining whether any listed entities should be removed or modified. The review will include analysis of whether the criteria for listing the entity are still applicable and research to determine whether the name(s) and address(es) of each entity are accurate and complete and whether any affiliates of each listed entity should be added or removed.

[73 FR 49322, Aug. 21, 2008]

SUPPLEMENT NO. 6 TO PART 744—UNVERIFIED LIST

Exports, reexports, and transfers (in-country) involving parties to the transaction who are listed in this supplement are subject to the restrictions and requirements outlined in §744.15 of the EAR.

Country	Listed person and address	FEDERAL REGISTER citation and date of publication
CANADA	Rizma, Inc., 1403–8 McKee Avenue, Toronto, Ontario M2N 7E5, Canada	80 FR 60532, October 7, 2015.
CHINA	China National Plant Import/Export Co., Room 2135, Jingxin Building A, No Dong San Huan North Road, Beijing, China	79 FR 34220, June 16, 2014.
CZECH REPUBLIC.	Bonitopto S.R.O., Vancurova 1084/10, Ostrov 363 01, Czech Republic; *and,* Jachymovska 178, Ostrov 363 01, Czech Republic	80 FR 60532, October 7, 2015.
FINLAND	Sav-Inter OY Ltd., Nuolitie 20, Vantaa, Finland; *and* Manttaalitie 5, Vantaa, Finland; *and* Virkatie 1, Vantaa, Finland	81 FR 40171, June 21, 2016.
GEORGIA	Spars Ltd., a.k.a. Spars Trading Ltd., Room 1, House 11, Nutsubdize 111 marker, Tbilisi, Georgia, 0183	80 FR 60532, October 7, 2015.
HONG KONG	Advent International Limited, Room 1303 Goldfield Tower, 53–59 Wuhu Street, Kung Hom, Kowloon, Hong Kong; *and* Flat F, 13/F, Block 1, Hong Sing Garden, Tsueng Kwan O, New Territories, Hong Kong	81 FR 40171, June 21, 2016.
	AST Technology Group (HK) Ltd., Flat 6, 20/F, Mega Trade Centre, 1–9 Mei Wan Street, Tsuen Wan, Hong Kong; *and* Unit 2209, 22/F, Wu Chung House, 213 Queen's Road East, Wan Chai, Hong Kong; *and* Unit 2103, 21/F, Sino Centre, 582–592 Nathan Road, Mong Kok, Kowloon, Hong Kong	80 FR 4779 January 29, 2015; 80 FR 60532, October 7, 2015.
	Boqur International Ltd., Room 1203, 12/F, International Trade Centre, 11–19 Sha Tsui Road, Tsuen Wan, New Territories, Hong Kong; *and* Room 19C, Lockhart Centre, 301–307 Lockhart Road, Wan Chai, Hong Kong	81 FR 40171, June 21, 2016.
	Brilliance Technology Ltd, Flat A, 11/F, Adolfo Mansion, 114–116 Austin Road, Tsim Sha Tsui, Kowloon, Hong Kong; *and* Rm 1203, 12/F, Hip Kwan Commercial Bldg., 38 Pitt Street, Yau Ma Tei, Hong Kong	79 FR 34220, June 16, 2014.
	Carry Goldstar Ltd., 15A, 15/F, Cheuk Nang Plaza, 250 Hennessy Road, Wan Chai, Hong Kong.	81 FR 40171, June 21, 2016.
	Central Right Investments Ltd., Room 1019, 10/F, 1 Hung To Road, Kwun Tong, Hong Kong.	81 FR 40171, June 21, 2016.
	CITI Hong Kong Ltd., Unit F, 7/F, Haribest Industry Building, 45–47 Au Pui Wan Street, Fo Tan, New Territories, Hong Kong.	81 FR 40171, June 21, 2016.
	CST Source Industrial Co., Ltd., Rooms 5–15, 13/F, South Tower, World Finance Centre, Harbour City, 17 Canton Road, Tsim Sha Tsui, Kowloon, Hong Kong.	81 FR 40171, June 21, 2016.
	Daystar Electric (HK) Ltd., Flat D, 19/F, Waylee Industrial Centre, 30–38 Tsuen King Circuit, Tsuen Wan, New Territories, Hong Kong; *and* 9/F Kam Chung Commercial Building, 19–21 Hennessy Road, Wanchai, Hong Kong	80 FR 4781, January 29, 2015.
	E-Chips Technology, Unit 4, 7/F, Bright Way Tower, No. 33 Mong Kok Road, Mong Kok, Kowloon, Hong Kong; *and* Flat 1205, 12/F, Tai Sang Bank Building, 130–132 Des Voeux Road Hong Kong	80 FR 4779, January 29, 2015; 80 FR 60532, October 7, 2015.
	Foot Electronics Co. Ltd., Unit 2103, 21/F, Sino Centre, 582–592 Nathan Road, Mong Kok, Kowloon, Hong Kong; *and* Rm. 19C, Lockhart Centre, 301–307 Lockhart Road, Wan Chai, Hong Kong	80 FR 60532, October 7, 2015.
	Fuiyen Technology Ltd., 6/F, Block H, East Sun Industrial Centre, 16 Shing Yip Street, Kwun Tong, Kowloon, Hong Kong; *and* Room 1405, Lucky Centre, 165–171 Wan Chai Road, Wan Chai, Hong Kong	81 FR 40171, June 21, 2016.
	Fussion Electronics Co., Ltd., 11/F, International Trade Centre, 11–19 Sha Tsui Road, Tsuen Wan, New Territories, Hong Kong	81 FR 40171, June 21, 2016.
	GA Industry Co. Ltd., Room 1103, Hang Seng Mong Kok Building, 677 Nathan Road, Kowloon, Hong Kong	80 FR 60532, October 7, 2015.
	Global Sourcing Electronics (HK) Ltd., Unit 4, 7/F, Bright Way Tower, No. 33 Mong Kok Road, Mong Kok, Kowloon, Hong Kong	81 FR 40171, June 21, 2016.
	Globe Communication (HK) Ltd., Flat 01A2, 10/F, Carnival Commercial Building, 18 Java Road, North Point, Hong Kong; *and* Flat C, 9/F, Winning House, 72–74 Wing Lok Street, Sheung Wan, Hong Kong	81 FR 40171, June 21, 2016.
	GS Technology Ltd., a.k.a. GS Technology Group Ltd., Flat 6, 20/F, Mega Trade Centre, 1–9 Mei Wan Street, Tsuen Wan, New Territories, Hong Kong; *and* Unit D, 16/F, Cheuk Nang Plaza, 250 Hennessy Road, Wanchai, Hong Kong	80 FR 4781, January 29, 2015.
	Haofeng Industrial Co., Ltd., Room 1101, 11/F, San Toi Building, 139 Connaught Road, Central, Hong Kong	81 FR 40171, June 21, 2016.

Country	Listed person and address	FEDERAL REGISTER citation and date of publication
	Hi-Shine Technology (HK) Limited, Flat D12, 11/F, King Yip Factory Bldg, 59 King Yip Street, Kwun Tong, Kowloon, Hong Kong; *and* Room 603, 6/F, Hang Pont Commercial Building, 31 Tonking Street, Cheung Sha Wan, Kowloon, Hong Kong	79 FR 34220, June 16, 2014.
	Hong Kong Engy Technology Co., a.k.a. Hong Kong Energy Technology Co., a.k.a. SZ Engy Technology Co., a.k.a. SZ Energy Technology Co., Workshop 15, 2/F, Cardinal Industrial Building, 17 On Lok Mun Street, Fanling, New Territories, Hong Kong	81 FR 40171, June 21, 2016.
	Hong Kong Haimao Info-Tec Development Co Ltd, Rm 1013B, Well Fung Ind. Center, Ta Chuen Ping Street, Kwai Chung, Hong Kong	79 FR 34220, June 16, 2014.
	Hong Kong U.Star Electronics Technology Co., Ltd., Room 28, 8/F, Shing Yip Industrial Building, 19–21 Shing Yip Street, Kwun Tong, Kowloon, Hong Kong; *and* Unit 5, 27/F, Richmong Commercial Building, 109 Argyle Street, Mong Kok, Kowloon, Hong Kong; *and* Room 704, 7/F, Bright Way Tower, 33 Mong Kok Road, Mong Kok, Kowloon, Hong Kong	80 FR 4781, January 29, 2015; 81 FR 40171, June 21, 2016.
	Hongbo Industrial Technology, Unit 3, 9/F, Shing Yip Industrial Building, 19–21 Shing Yip Street, Kwun Tong, Kowloon, Hong Kong; *and* Unit 04, 7/F, Bright Way Tower, No. 33, Mong Kok Road, Kowloon, Hong Kong	80 FR 4781, January 29, 2015.
	Hua Fu Technology Co. Ltd., Rm 1209, 12/F, Workingbond Commercial Centre, 162 Prince Edward Road West, Mong Kok, Kowloon, Hong Kong	80 FR 60532, October 7, 2015.
	Jin Yan Technology & Development Co., Ltd., Workshop 11, 8/F, Block A, Delya Industrial Centre, 7 Shek Pai Tau Road, Tuen Mun, New Territories, Hong Kong; *and* Room 1, Fook Cheung Building, 42 Ka Shin Street, Tai Kok Tsui, Kowloon, Hong Kong	81 FR 40171, June 21, 2016.
	KingV Ltd., a.k.a. Jinnway Data Ltd., Room 31, 9/F, Shing Yip Industrial Building, 19–21 Shing Yip Street, Kwun Tong, Kowloon, Hong Kong; *and* 11/F, Front Block, Hang Lok Building, 130 Wing Lok Street, Sheung Wan, Hong Kong	81 FR 40171, June 21, 2016.
	Lianqi (HK) Electronics Co Ltd, Unit N, 3/F, Hopewell House, 175 Hip Wo Street, KwunTong, Kowloon, Hong Kong	79 FR 34220, June 16, 2014.
	Ling Ao Electronic Technology Co. Ltd., a.k.a. Voyage Technology (HK) Co. Ltd., Room 17, 7/F, Metro Centre Phase 1, No. 32 Lamhing St., Kowloon Bay, Hong Kong; *and* 15B, 15/F, Cheuk Nang Plaza, 250 Hennessy Road, Hong Kong; *and* Flat C, 11/F, Block No. 2, 62 Hoi Yu Street, Kowloon, Hong Kong; *and* Room C1–D, 6/F, Wing Hing Industrial Building, 14 Hing Yip Street, Kwun Tong, Kowloon, Hong Kong	80 FR 4779 January 29, 2015; 80 FR 60532, October 7, 2015.
	Lion Chip Electronics Ltd, Unit N, 3/F, Hopewell House, 175 Hip Wo Street, KwunTong, Kowloon, Hong Kong	79 FR 34220, June 16, 2014.
	Maipu Communication Technology Co Ltd, 7/F Kerry Warehouse, 36–42 Shan Mei St, Shatin, Hong Kong	79 FR 34220, June 16, 2014.
	Master-Uni Industry Co., Ltd., Room 602, 6/F, 168 Queens Road, Central, Hong Kong	81 FR 40171, June 21, 2016.
	Microlink Communication Ltd., Room 806, 8/F, Kenbo Commercial Building, No. 335–339 Queen's Road West, Hong Kong	80 FR 4781, January 29, 2015.
	Milectronic Communication Ltd., Room 2912, Tower 2, Times Square, 1 Matheson Street, Causeway Bay, Hong Kong	80 FR 4781, January 29, 2015.
	Nano Tech International Co Ltd, Unit 5, 27/F, Richmond Commercial Building, 109 Argyle Street, Mongkok, Kowloon, Hong Kong	79 FR 34220, June 16, 2014.
	Narpel Technology Co., Limited, Unit A, 6/F, Yip Fat Factory Building, Phase 1, No 77 Hoi Yuen Road, Kwun Tong, Kowloon, Hong Kong; *and* Room 4C, 8/F, Sunbeam Centre, 27 Shing Yip Street, Kwun Tong, Kowloon, Hong Kong; *and* Room 1905, Nam Wo Hong Building, 148 Wing Lok Street, Sheung Wan, Hong Kong; *and* 15B, 15/F, Cheuk Nang Plaza, 250 Hennessy Road, Wan Chai, Hong Kong	79 FR 34217, June 16, 2014; 80 FR 4779 January 29, 2015; 80 FR 60532, October 7, 2015.
	Newplus Equipment Ltd., 12/F, Chinachem Johnston Plaza, 178–186 Johnston Road, Wan Chai, Hong Kong	81 FR 40171, June 21, 2016.
	People Tele-com Group, Flat A, 11/F, Adolfo Mansion, 114–116 Austin Road, Tsim Sha Tsui, Kowloon, Hong Kong	79 FR 34220, June 16, 2014.
	Phonai Electronics Ltd., 51F, Core Building 11, New Territories, Hong Kong	81 FR 40171, June 21, 2016.
	Powersun Electronics, Flat/Rm 502D, Hang Pont Commercial Building, 31 Tonkin Street, Cheung Sha Wan, Kowloon, Hong Kong; *and* G/F and G/M, Winner Godown Building, 1–9 Sha Tsui Road, Tsuen Wan, New Territories, Hong Kong	79 FR 34217, June 16, 2014, 80 FR 4781, January 29, 2015.
	Runtop Circuits Technology Co., Room D9, 67/F, Block 2, Camel Paint Building, 62 Hoi Yuen Road, Kwun Tong, Hong Kong; *and* Flat 8–11, 16/F, New Trend Centre, 704 Prince Edward Road East, San Po Kong, Kowloon, Hong Kong	81 FR 40171, June 21, 2016.

Country	Listed person and address	FEDERAL REGISTER citation and date of publication
	Scitech International Express Co. Limited, Workshop 11, 8/F, Block A, Delya Industrial Centre, 7 Shek Pai Tau Road, Tuen Mun, New Territories, Hong Kong	81 FR 40171, June 21, 2016.
	Selective Components Ltd., Room 8, 10/F, International Trade Centre, 11–19 Sha Tsui Road, Tsuen Wan, New Territories, Hong Kong	81 FR 40171, June 21, 2016.
	Suke Logistics Ltd., Flat 6, 20/F, Mega Trade Centre, 1–9 Mei Wan Street, Tsuen Wan, New Territories, Hong Kong	80 FR 4781, January 29, 2015.
	Sun Wing Ltd., Room 31, 9/F, Shing Yip Industrial Building, 19–21 Shing Yip Street, Kwun Tong, Kowloon, Hong Kong	81 FR 40171, June 21, 2016.
	Sur-Link Technology (HK) Ltd., a.k.a. Sur-Link International (HK) Ltd., a.k.a. Surlink Group, Flat 6, 20/F, Mega Trade Centre, 1–9 Mei Wan Street, Tsuen Wan, New Territories, Hong Kong	81 FR 40171, June 21, 2016.
	Team Kingdom Limited, Unit 526, 5/F, Advanced Technology Centre, 2 Choi Fat Street, Sheung Shui, New Territories, Hong Kong	79 FR 34220, June 16, 2014.
	Tianao Electronics Limited, Rm 9, 7/F, Block G, East Sun Industrial Ctr, 16 Shing Yip Street, Kwun Tong, Kowloon, Hong Kong	79 FR 34220, June 16, 2014.
	Top-Rank Int Trade (HK), Room 201–202, Westin Centre, 26 Hung To Road, Kwun Tong, Hong Kong; *and* Units A&B, 15/F, Neich Tower, 128 Gloucester Road, Wanchai, Hong Kong	79 FR 34220, June 16, 2014.
	Toptech Electronics Ltd., 15/F, Hong Kong and Macau Building, 156–157 Connaught Road, Central, Hong Kong	81 FR 40171, June 21, 2016.
	Vessel Technology Limited, Rm 2309, 23/F, Ho King Comm Ctr, 2–16 Fayuen St., Mongkok, Kowloon, Hong Kong	79 FR 34220, June 16, 2014.
	Win Electronics Limited, G/F, 26 Pau Chung Street, Tokwawan, Kowloon, Hong Kong; *and* Rm 2309, 23/F, Ho King Comm Ctr, 2–16 Fayuen St., Mongkok, Kowloon, Hong Kong	79 FR 34220, June 16, 2014.
	Win-Semi International Ltd, Flat 6, 20/F, Mega Trade Centre, 1–9 Mei Wan Street, Tsuen Wan, Hong Kong; *and* Unit 503, 5/F, Silvercord Tower 2, 30 Canton Road, Tsimshatsui, Hong Kong	79 FR 34220, June 16, 2014.
	Winthought Company Ltd., Unit E1, 3/F, Wing Tat Commercial Building, 121–125 Wing Lok Street, Sheung Wan, Hong Kong	81 FR 40171, June 21, 2016.
	Yashen (HK) Electronics, Flat R, 15/F, Phase 2, Goldfield Industrial Building, 144–150 Tai Lin Pai Road, Kai Chung, New Territories, Hong Kong; *and* Room N, 3/F, Mongkok Building, 97 Mongkok Road, Kowloon, Hong Kong	79 FR 34220, June 16, 2014.
	Yield Best International, 6/F, Block H, East Sun Industrial Centre, 16 Shing Yip Street, Kwun Tong, Kowloon, Hong Kong; *and* Unit J, 9/F, King Win Factory Building, 65–67 King Yip Street, Kwun Tong, Hong Kong	81 FR 40171, June 21, 2016.
	Yogone Electronics Co., Unit 602, 6/F, Silvercord Tower 2, 30 Canton Road, Tsim Sha Tsui, Kowloon, Hong Kong	80 FR 60532, October 7, 2015.
	ZDAS (HK) Company, G/F, 16 Kwan Tei North Tsuen Leung Yeuk Tau, Sha Tau Kok Road, Fanling, Hong Kong; *and* Room 1609, 16/F, Block B, Veristrong Industrial Center, 34–36 Au Pui Wan Street, FoTaan, Shatin, New Territories, Hong Kong	79 FR 34220, June 16, 2014.
	ZhongJie Electronics, G/F, 26 Pau Chung Street, Tokwawan, Kowloon, Hong Kong; *and* Rm 2309, 23/F, Ho King Comm Ctr, 2–16 Fayuen St., Mongkok, Kowloon, Hong Kong	79 FR 34220, June 16, 2014.
INDIA	Conduit Technologies Pvt., Ltd., Office 201, 2/F, Lunkad Sky Station, Konark Naga, Mhada Colony, Viman Nagar, Pune, India; *and* Office UG21, East Court, Phoenix Market City, Viman Nagar, Pune, India	81 FR 40171, June 21, 2016.
LATVIA	Alfa Photonics, 21 Krisjana Valdemara Iela, Riga, Latvia; *and* 151–11 Krisjana Valdemara Iela, Riga, Latvia; *and* 52–66 Darza Iela, Riga, Latvia; *and* Nordic Technology Park, 15/25 Jurkalnes Iela, Riga, Latvia	81 FR 40171, June 21, 2016.
PAKISTAN	T.M.A. International, a.k.a. TMA International, a.k.a. Tahir Asad Industries Pvt. Ltd., a.k.a. T.A. Industries Pvt. Ltd., 45–B, Ahmed Block, New Garden Town, Lahore, Pakistan; *and* 417 Gulshan Block, Iqbal Town, Lahore, Pakistan	80 FR 4781, January 29, 2015.
RUSSIA	JSC Voentelecom, Bolshaya Olenya Str. 15A, Moscow, Russia	79 FR 34220, June 16, 2014.
	Nasosy Ampika, 3-ya Institutskaya St. Bld. 15, Moscow, Russia	79 FR 34220, June 16, 2014.
	Nuclin LLC, Serebryakova Proezd 14, Moscow, Russia	79 FR 34220, June 16, 2014.
	SDB IRE RAS, 1 Vvedenskogo Square, Fryazino, Russia	79 FR 34220, June 16, 2014.
	Security 2 Business Academy, a.k.a. S2BA, a.k.a. Academy of Business Security, Deguninskaya Street 10, Moscow, Russia; *and* Novoslobodskaya Str. 14/19, Moscow, Russia	79 FR 34220, June 16, 2014.
SINGAPORE	Dorado Network Pte., Ltd., 128 Joo Seng Road, DP Computers Building 04–04, Singapore; *and* 629 Aljunied Road, Cititech Industrial Building, Singapore; *and* 512 Woodlands Drive 14, Singapore	81 FR 40171, June 21, 2016.

Country	Listed person and address	FEDERAL REGISTER citation and date of publication
SWITZERLAND	Light Range AG, Stutzstrasse 13C, Schindellegi, Switzerland; *and* Lowenstrasse 20, Zurich, Switzerland; *and* Via Delle Scuole 34E, Figino, Switzerland	81 FR 40171, June 21, 2016.
UNITED ARAB EMIRATES.	Abu Trade LLC, Lot Number 155, Al Zaroni Yard, Al Wasl Road, Dubai, UAE	81 FR 40171, June 21, 2016.
	Alsima Middle East General Trading, 802 Whiteswan Building, near Fairmont Hotel, Sheikh Zayed Road, Dubai, UAE	81 FR 40171, June 21, 2016.
	Doubair General Trading Co. LLC, P.O. Box 30239, Dubai, UAE	79 FR 34220, June 16, 2014.
	Establishment Standard Lab FZE, a.k.a. Standard Lab FZE, Ras Al Khaimah Free Trade Zone Business Park, Ras Al Khaimah, UAE; *and* P.O. Box 17049, Ras Al Khaimah, UAE	81 FR 40171, June 21, 2016.
	Golden Business FZE, Warehouse #FZS1 AN08, Jebel Ali Free Zone, Dubai, UAE; *and* P.O. Box 263128, Dubai, UAE	79 FR 34220, June 16, 2014.
	Gulf Modern Solutions Engineering Company, No. 14, 35B Street, Al Satwa Road, Dubai, UAE	80 FR 60532, October 7, 2015.
	Marinatec, Office 2008, Grosvenor Commercial Tower, Sheikh Zayed Road, Dubai, UAE; *and* P.O. Box 42236, 17A Radisson Plaza, Deira, Dubai, UAE	81 FR 40171, June 21, 2016.
	Masomi General Trading, Unit No. B605, Baniyas Complex, Baniyas Square, P.O. Box 39497, Dubai, UAE	80 FR 60532, October 7, 2015.
	Middle East Oilfield Equipment, 723 Sama Tower, 6/F, near Fairmont Hotel, Sheikh Zayed Road, P.O. Box 4404, Dubai, UAE; *and* 217 Twin Towers, Baniyas Road, P.O. Box 4404, Deira, Dubai, UAE; *and* Flat 102, Mohammed Zainal Faraidooni Building, Salahuddin Road, Dubai, UAE	81 FR 40171, June 21, 2016.
	Recaz Star General Trading LLC, #307 Naser Lootah Building, Khalid bin Waleed Road, Dubai, UAE	80 FR 60532, October 7, 2015.
	Renat International General Trading, Office #H241, Building #1G, Ajman Free Zone, Ajman, UAE; *and* Building #H1, Behind China Mall, Ajman Free Zone Area, Ajman, UAE	80 FR 60532, October 7, 2015.
	Rich Star General Trading LLC, #203 The Atrium Centre, Khalid bin Waleed Road, Bur Dubai, Dubai, UAE; *and* P.O. Box 181977, Dubai, UAE	80 FR 4781, January 29, 2015.
	Tek Work General Trading, 1902 Metropolis Business Tower, P.O. Box 12865, Business Bay, Dubai, UAE	81 FR 40171, June 21, 2016.
	Trade Star FZC, Sheikh Zayed Road, Al Mossa Tower 1, 17th Floor, Dubai, UAE; and P.O. Box 51159, Sharjah, UAE; *and* ELOB Office #E55G–31, Hamriyah Free Zone, Sharjah, UAE	80 FR 60532, October 7, 2015.
	World Heavy Equipment, Industrial Area 10, Ras Al Khaimah, UAE; *and* World Equipment Trading L.L.C, Industrial Area 10, Ras Al Khaimah, UAE	79 FR 34220, June 16, 2014.

[79 FR 34220, June 16, 2014, as amended at 80 FR 4781, Jan. 29, 2015; 80 FR 60532, Oct. 7, 2015; 81 FR 40171, June 21, 2016]

SUPPLEMENT NO. 7 TO PART 744—TEMPORARY GENERAL LICENSE

Notwithstanding the requirements and other provisions of supplement 4 to part 744, which became effective on March 8, 2016, the licensing and other requirements in the EAR as of March 7, 2016, pertaining to exports, re-exports, and transfers (in-country) of items ''subject to the EAR'' to Zhongxing Telecommunications Equipment (ZTE) Corporation, ZTE Plaza, Keji Road South, Hi-Tech Industrial Park, Nanshan District, Shenzhen, China, and ZTE Kangxun Telecommunications Ltd., 2/3 Floor, Suite A, ZTE Communication Mansion Keji (S) Road, Hi-New Shenzhen, 518057 China, are restored as of March 24, 2016 and through February 27, 2017. Thus, for example, the authority of NLR or a License Exception that was available as of March 7, 2016, may be used as per this temporary general license. The temporary general license is renewable if the U.S. Government determines, in its sole discretion, that ZTE Corporation and ZTE Kangxun are timely performing their undertakings to the U.S. Government and otherwise cooperating with the U.S. Government in resolving the matter.

[81 FR 15635, Mar. 24, 2016, as amended at 81 FR 41800, June 28, 2016; 81 FR 55373, Aug. 19, 2016; 81 FR 81664, Nov. 18, 2016]

EFFECTIVE DATE NOTE: At 81 FR 15635, Mar. 24, 2016, supplement 7 to part 744 was added, effective until June 30, 2016. At 81 FR 41799, 41800, June 28, 2016, the supplement was amended and the effective date was extended until Aug. 30, 2016. At 81 FR 55372, 55373, Aug. 19, 2016, the supplement was further amended and the effective date was extended until Nov. 28, 2016. At 81 FR 81663, 81664, Nov. 18, 2016, the supplement was further amended

and the effective date was extended until Feb. 27, 2017.

PART 745—CHEMICAL WEAPONS CONVENTION REQUIREMENTS

Sec.
745.1 Advance notification and annual report of all exports of Schedule 1 chemicals to other States Parties.
745.2 End-Use Certificate reporting requirements under the Chemical Weapons Convention.
SUPPLEMENT NO. 1 TO PART 745—SCHEDULES OF CHEMICALS
SUPPLEMENT NO. 2 TO PART 745—STATES PARTIES TO THE CONVENTION ON THE PROHIBITION OF THE DEVELOPMENT, PRODUCTION, STOCKPILING, AND USE OF CHEMICAL WEAPONS AND ON THEIR DESTRUCTION
SUPPLEMENT NO. 3 TO PART 745—FOREIGN GOVERNMENT AGENCIES RESPONSIBLE FOR ISSUING END-USE CERTIFICATES PURSUANT TO § 745.2

AUTHORITY: 50 U.S.C. 1701 *et seq.;* E.O. 12938, 59 FR 59099, 3 CFR, 1994 Comp., p. 950; Notice of November 12, 2015, 80 FR 70667 (November 13, 2015).

SOURCE: 64 FR 27143, May 18, 1999, unless otherwise noted.

§ 745.1 Advance notification and annual report of all exports of Schedule 1 chemicals to other States Parties.

Pursuant to the Convention, the United States is required to notify the Organization for the Prohibition of Chemical Weapons (OPCW) not less than 30 days in advance of every export of a Schedule 1 chemical, in any quantity, to another State Party. In addition, the United States is required to provide a report of all exports of Schedule 1 chemicals to other States Parties during each calendar year. If you plan to export any quantity of a Schedule 1 chemical controlled under the EAR and licensed by the Department of Commerce or controlled under the International Traffic in Arms Regulations (ITAR) and licensed by the Department of State, you are required under this section to notify the Department of Commerce in advance of this export. You are also required to provide an annual report of exports that actually occurred during the previous calendar year. The United States will transmit the advance notifications and an aggregate annual report to the OPCW of exports of Schedule 1 chemicals from the United States. Note that the notification and annual report requirements of this section do not relieve the exporter of any requirement to obtain a license from the Department of Commerce for the export of Schedule 1 chemicals subject to the EAR or from the Department of State for the export of Schedule 1 chemicals subject to the ITAR.

(a) *Advance notification of exports.* You must notify BIS at least 45 calendar days prior to exporting any quantity of a Schedule 1 chemical listed in supplement no. 1 to this part to another State Party. This is in addition to the requirement to obtain an export license under the EAR for chemicals controlled by ECCN 1C350 or 1C351 for any reason for control, or from the Department of State for Schedule 1 chemicals controlled under the ITAR. Note that such notifications may be sent to BIS prior to or after submission of a license application to BIS for Schedule 1 chemicals controlled subject to the EAR and under ECCNs 1C350 or 1C351 or to the Department of State for Schedule 1 chemicals controlled on the ITAR. Such notices must be submitted separately from license applications.

(1) Such notification should be on company letterhead or must clearly identify the reporting entity by name of company, complete address, name of contact person and telephone and fax numbers, along with the following information:

(i) Common Chemical Name;

(ii) Structural formula of the chemical;

(iii) Chemical Abstract Service (CAS) Registry Number;

(iv) Quantity involved in grams;

(v) Planned date of export;

(vi) Purpose (end-use) of export;

(vii) Name of recipient;

(viii) Complete street address of recipient;

(ix) Export license or control number, if known; and

(x) Company identification number, once assigned by BIS.

(2) Send the notification either by fax to (202) 482–1731 or by mail or courier delivery to the following address: Information Technology Team, Treaty Compliance Division, Bureau of Industry

and Security, U.S. Department of Commerce, Room 4515, 14th Street and Pennsylvania Avenue, NW., Washington, DC 20230. Attn: ''Advance Notification of Schedule 1 Chemical Export''.

(3) Upon receipt of the notification, BIS will inform the exporter of the earliest date the shipment may occur under the notification procedure. To export the Schedule 1 chemical, the exporter must have applied for and been granted a license (see §§ 742.2 and 742.18 of the EAR, or the ITAR at 22 CFR part 121.

(b) *Annual report of exports.* (1) You must report all exports of any quantity of a Schedule 1 chemical to another State Party during the previous calendar year, starting with exports taking place during calendar year 1997. Reports for exports during calendar years 1997 and 1998 are due to the Department of Commerce August 16, 1999. Thereafter, annual reports of exports are due on February 13 of the following calendar year. The report should be on company letterhead or must clearly identify the reporting entity by name of company, complete address, name of contact person and telephone and fax numbers along with the following information for *each* export:

(i) Common Chemical Name;

(ii) Structural formula of the chemical;

(iii) CAS Registry Number;

(iv) Quantity involved in grams;

(v) Date of export;

(vi) Export license number;

(vii) Purpose (end-use) of export;

(viii) Name of recipient;

(ix) Complete address of recipient, including street address, city and country; and (x) Company identification number, once assigned by BIS.

(2) The report must be signed by a responsible party, certifying that the information provided in the annual report is, to the best of his/her knowledge and belief, true and complete.

(3) Send the report either by fax to (202) 482–1731 or by mail or courier delivery to the following address: Information Technology Team, Treaty Compliance Division, Bureau of Industry and Security, U.S. Department of Commerce, Room 4515, 14th Street and Pennsylvania Avenue, NW., Washington, DC 20230. Attn: ''Annual Report of Schedule 1 Chemical Export''.

[64 FR 27143, May 18, 1999, as amended at 64 FR 28909, May 28, 1999; 65 FR 12923, Mar. 10, 2000; 73 FR 38910, July 8, 2008]

§ 745.2 End-Use Certificate reporting requirements under the Chemical Weapons Convention.

NOTE: The End-Use Certificate requirement of this section does not relieve the exporter of any requirement to obtain a license from the Department of Commerce for the export of Schedule 3 chemicals subject to the Export Administration Regulations or from the Department of State for the export of Schedule 3 chemicals subject to the International Traffic in Arms Regulations.

(a)(1) No U.S. person, as defined in § 744.6(c) of the EAR, may export from the United States any Schedule 3 chemical identified in supplement no. 1 to this part to countries not party to the Chemical Weapons Convention (destinations *not* listed in supplement no. 2 to this part) unless the U.S. person obtains from the consignee an End-Use Certificate issued by the government of the importing destination. This Certificate must be issued by the foreign government's agency responsible for foreign affairs or any other agency or department designated by the importing government for this purpose. Supplement no. 3 to this part includes foreign authorized agencies responsible for issuing End-Use Certificates pursuant to this section. Additional foreign authorized agencies responsible for issuing End-Use Certificates will be included in supplement no. 3 to this part when known. End-Use Certificates may be issued to cover aggregate quantities against which multiple shipments may be made to a single consignee. An End-Use Certificate covering multiple shipments may be used until the aggregate quantity is shipped. End-Use Certificates must be submitted separately from license applications.

(2) Submit a copy of the End-Use Certificate, no later than 7 days after the date of export, either by fax to (202) 482–1731 or by mail or courier delivery to the following address: Information Technology Team, Treaty Compliance Division, Bureau of Industry and Security, U.S. Department of Commerce,

Room 4515, 14th Street and Pennsylvania Avenue, NW., Washington, DC 20230. Attn: ''CWC End-Use Certificate Report''.

(b) The End-Use Certificate described in paragraph (a) of this section must state the following:

(1) That the chemicals will be used only for purposes not prohibited under the Chemical Weapons Convention;

(2) That the chemicals will not be transferred to other end-user(s) or end-use(s);

(3) The types and quantities of chemicals;

(4) Their specific end-use(s); and

(5) The name(s) and complete address(es) of the end-user(s).

[64 FR 27143, May 18, 1999, as amended at 64 FR 49381, Sept. 13, 1999; 66 FR 49525, Sept. 28, 2001; 73 FR 38910, July 8, 2008]

SUPPLEMENT NO. 1 TO PART 745—SCHEDULES OF CHEMICALS

	C.A.S. Registry No.
Schedule 1	
A. Toxic chemicals:	
(1) O-Alkyl ($\leq C_{10}$, incl. cycloalkyl) alkyl (Me, Et, n-Pr or i-Pr)-phosphonofluoridates	
e.g. Sarin: O-Isopropyl methylphosphonofluoridate	107–44–8
Soman: O-Pinacolyl methylphosphonofluoridate	96–64–0
(2) O-Alkyl ($\leq C_{10}$, incl. cycloalkyl) N,N-dialkyl (Me, Et, n-Pr or i-Pr) phosphoramidocyanidates	
e.g. Tabun: O-Ethyl N,N-dimethyl phosphoramidocyanidate	77–81–6
(3) O-Alkyl (H or $\leq C_{10}$, incl. cycloalkyl) S-2-dialkyl (Me, Et, n-Pr or i-Pr)-aminoethyl alkyl (Me, Et, n-Pr or i-Pr) phosphonothiolates and corresponding alkylated or protonated salts	
e.g. VX: O-Ethyl S-2-diisopropylaminoethyl methyl phosphonothiolate	50782–69–9
(4) Sulfur mustards:	
2-Chloroethylchloromethylsulfide	2625–76–5
Mustard gas: Bis(2-chloroethyl)sulfide	505–60–2
Bis(2-chloroethylthio)methane	63869–13–6
Sesquimustard: 1,2-Bis(2-chloroethylthio)ethane	3563–36–8
1,3-Bis(2-chloroethylthio)-n-propane	63905–10–2
1,4-Bis(2-chloroethylthio)-n-butane	142868–93–7
1,5-Bis(2-chloroethylthio)-n-pentane	142868–94–8
Bis(2-chloroethylthiomethyl)ether	63918–90–1
O-Mustard: Bis(2-chloroethylthioethyl)ether	63918–89–8
(5) Lewisites:	
Lewisite 1: 2-Chlorovinyldichloroarsine	541–25–3
Lewisite 2: Bis(2-chlorovinyl)chloroarsine	40334–69–8
Lewisite 3: Tris(2-chlorovinyl)arsine	40334–70–1
(6) Nitrogen mustards:	
HN1: Bis(2-chloroethyl)ethylamine	538–07–8
HN2: Bis(2-chloroethyl)methylamine	51–75–2
HN3: Tris(2-chloroethyl)amine	555–77–1
(7) Saxitoxin	35523–89–8
(8) Ricin	9009–86–3
B. Precursors:.	
(9) Alkyl (Me, Et, n-Pr or i-Pr) phosphonyldifluorides	
e.g. DF: Methylphosphonyldifluoride	676–99–3
(10) O-Alkyl (H or $\leq C_{10}$, incl. cycloalkyl) O-2-dialkyl (Me, Et, n-Pr or i-Pr)-aminoethyl alkyl (Me, Et, n-Pr or i-Pr) phosphonites and corresponding alkylated or protonated salts	
e.g. QL: O-Ethyl O-2-diisopropylaminoethyl methylphosphonite	57856–11–8
(11) Chlorosarin: O-Isopropyl methylphosphonochloridate	1445–76–7
(12) Chlorosoman: O-Pinacolyl methylphosphonochloridate	7040–57–5
Schedule 2	
A. Toxic chemicals:	
(1) Amiton: O,O-Diethyl S-[2-(diethylamino)ethyl] phosphorothiolate and corresponding alkylated or protonated salts	78–53–5
(2) PFIB: 1,1,3,3,3-Pentafluoro-2-(trifluoromethyl)-1-propene	382–21–8
(3) BZ: 3-Quinuclidinyl benzilate	6581–06–2
B. Precursors:	

	C.A.S. Registry No.
(4) Chemicals, except for those listed in Schedule 1, containing a phosphorus atom to which is bonded one methyl, ethyl or propyl (normal or iso) group but not further carbon atoms,	
e.g. Methylphosphonyl dichloride	676–97–1
Dimethyl methylphosphonate	756–79–6
Exemption: Fonofos: O-Ethyl S-phenyl ethylphosphono-thiolothionate	944–22–9
(5) N,N-Dialkyl (Me, Et, n-Pr or i-Pr) phosphoramidic dihalides	
(6) Dialkyl (Me, Et, n-Pr or i-Pr) N,N-dialkyl (Me, Et, n-Pr or i-Pr)-phosphoramidates	
(7) Arsenic trichloride	7784–34–1
(8) 2,2-Diphenyl-2-hydroxyacetic acid	76–93–7
(9) Quinuclidine-3-ol	1619–34–7
(10) N,N-Dialkyl (Me, Et, n-Pr or i-Pr) aminoethyl-2-chlorides and corresponding protonated salts	
(11) N,N-Dialkyl (Me, Et, n-Pr or i-Pr) aminoethane-2-ols and corresponding protonated salts	
Exemptions: N,N-Dimethylaminoethanol and corresponding protonated salts	108–01–0
N,N-Diethylaminoethanol and corresponding protonated salts	100–37–8
(12) N,N-Dialkyl (Me, Et, n-Pr or i-Pr) aminoethane-2-thiols and corresponding protonated salts	
(13) Thiodiglycol: Bis(2-hydroxyethyl)sulfide	111–48–8
(14) Pinacolyl alcohol: 3,3-Dimethylbutane-2-ol	464–07–3

Schedule 3

A. Toxic chemicals:	
(1) Phosgene: Carbonyl dichloride	75–44–5
(2) Cyanogen chloride	506–77–4
(3) Hydrogen cyanide	74–90–8
(4) Chloropicrin: Trichloronitromethane	76–06–2
B. Precursors:	
(5) Phosphorus oxychloride	10025–87–3
(6) Phosphorus trichloride	7719–12–2
(7) Phosphorus pentachloride	10026–13–8
(8) Trimethyl phosphite	121–45–9
(9) Triethyl phosphite	122–52–1
(10) Dimethyl phosphite	868–85–9
(11) Diethyl phosphite	762–04–9
(12) Sulfur monochloride	10025–67–9
(13) Sulfur dichloride	10545–99–0
(14) Thionyl chloride	7719–09–7
(15) Ethyldiethanolamine	139–87–7
(16) Methyldiethanolamine	105–59–9
(17) Triethanolamine	102–71–6

SUPPLEMENT NO. 2 TO PART 745—STATES PARTIES TO THE CONVENTION ON THE PROHIBITION OF THE DEVELOPMENT, PRODUCTION, STOCKPILING, AND USE OF CHEMICAL WEAPONS AND ON THEIR DESTRUCTION

LIST OF STATES PARTIES AS OF JUNE 1, 2016

Afghanistan
Albania
Algeria
Andorra
Angola
Antigua and Barbuda
Argentina
Armenia
Australia
Austria
Azerbaijan
Bahamas
Bahrain
Bangladesh
Barbados
Belarus
Belize
Belgium
Benin
Bhutan
Bolivia
Bosnia-Herzegovina
Botswana
Brazil
Brunei Darussalam
Bulgaria
Burkina Faso
Burma
Burundi
Cambodia
Cameroon
Canada
Cape Verde
Central African Republic
Chad
Chile
China*
Colombia
Comoros
Congo (Democratic Republic of the)
Congo (Republic of the)
Cook Islands
Costa Rica
Cote d'Ivoire (Ivory Coast)
Croatia
Cuba
Cyprus
Czech Republic
Denmark
Djibouti
Dominica
Dominican Republic
Ecuador
El Salvador
Equatorial Guinea
Eritrea
Estonia
Ethiopia
Fiji
Finland
France
Gabon
Gambia
Georgia
Germany
Ghana
Greece
Grenada
Guatemala
Guinea
Guinea-Bissau
Guyana
Haiti
Holy See
Honduras
Hungary
Iceland
India
Indonesia
Iran
Iraq
Ireland
Italy
Jamaica
Japan
Jordan
Kazakhstan
Kiribati
Kenya
Korea (Republic of)
Kuwait
Kyrgyzstan
Laos (P.D.R.)
Latvia
Lebanon
Lesotho
Liberia
Libya
Liechtenstein
Lithuania
Luxembourg
Macedonia
Madagascar
Malawi
Malaysia
Maldives
Mali
Malta
Marshall Islands
Mauritius

Mauritania
Mexico
Micronesia
Moldova (Republic of)
Monaco
Mongolia
Montenegro
Morocco
Mozambique
Namibia
Nauru
Nepal
Netherlands (Kingdom of the) * * *
New Zealand
Nicaragua
Niger
Nigeria
Niue
Norway
Oman
Pakistan
Palau
Panama
Papua New Guinea
Paraguay
Peru
Philippines
Poland
Portugal
Qatar
Romania
Russian Federation
Rwanda
Saint Kitts and Nevis
Saint Lucia
Saint Vincent and the Grenadines
Samoa
San Marino
Sao Tome and Principe
Saudi Arabia
Senegal
Serbia
Seychelles
Sierra Leone
Singapore
Slovak Republic
Slovenia
Solomon Islands
Somalia
South Africa
Spain
Sri Lanka
Sudan
Suriname
Swaziland
Sweden
Switzerland
Syria
Tajikistan
Tanzania
Thailand
The United Arab Emirates
Timor-Leste
Togo
Tonga
Trinidad and Tobago
Tunisia
Turkey
Turkmenistan
Tuvalu
Uganda
Ukraine
United Kingdom
United States
Uruguay
Uzbekistan
Vanuatu
Venezuela
Vietnam
Yemen
Zambia
Zimbabwe

*** For CWC purposes only, the Netherlands (Kingdom of) includes: Aruba, Curaçao, and Sint Maarten (the Dutch two-fifths of the island of Saint Martin).

* For CWC purposes only, China includes Hong Kong and Macau.

[64 FR 27143, May 18, 1999]

EDITORIAL NOTE: For FEDERAL REGISTER citations affecting part 745, supplement 2, see the List of CFR Sections Affected, which appears in the Finding Aids section of the printed volume and at *www.fdsys.gov*.

SUPPLEMENT NO. 3 TO PART 745—FOREIGN AUTHORIZED AGENCIES RESPONSIBLE FOR ISSUING END-USE CERTIFICATES PURSUANT TO § 745.2

Israel

Chemical, Environment Technology Administration, Ministry of Industry & Trade, 30 Agron Street, Jerusalem 94190, Israel
Contact: Josef Dancona, Deputy Director, Telephone: 972–2–6220193, Fax: 972–2–6241987

Taiwan[1]

Board of Foreign Trade, Ministry of Economic Affairs, 1 Hukou St., Taipei, Tel: (02) 2351–0271, Fax: (02) 2351–3603
Export Processing Zone Administration, Ministry of Economic Affairs, 600 Chiachang Rd., Nantze, Kaohsiung, Tel: (07) 361–1212, Fax: (07) 361–4348
Science-Based Industrial Park Administration, National Science Council, Executive Yuan, 2 Hsin-an Rd., Hsinchu, Tel: (03) 577–3311, Fax: (03) 577–6222

[64 FR 27143, May 18, 1999, as amended at 64 FR 43982, Sept. 13, 1999]

PART 746—EMBARGOES AND OTHER SPECIAL CONTROLS

Sec.
746.1 Introduction.
746.2 Cuba.
746.3 Iraq.
746.4 North Korea.
746.5 Russian industry sector sanctions.
746.6 Crimea region of Ukraine.
746.7 Iran.
746.8 [Reserved]
746.9 Syria.
SUPPLEMENT NO. 1 TO PART 746—EXAMPLES OF LUXURY GOODS
SUPPLEMENT NO. 2 TO PART 746—RUSSIAN INDUSTRY SECTOR SANCTION LIST

AUTHORITY: 50 U.S.C. 4601 *et seq.;* 50 U.S.C. 1701 *et seq.;* 22 U.S.C. 287c; Sec 1503, Pub. L. 108–11, 117 Stat. 559; 22 U.S.C. 6004; 22 U.S.C. 7201 *et seq.;* 22 U.S.C. 7210; E.O. 12854, 58 FR 36587, 3 CFR, 1993 Comp., p. 614; E.O. 12918, 59 FR 28205, 3 CFR, 1994 Comp., p. 899; E.O. 13222, 66 FR 44025, 3 CFR, 2001 Comp., p. 783; E.O. 13338, 69 FR 26751, 3 CFR, 2004 Comp., p 168; Presidential Determination 2003–23, 68 FR 26459, 3 CFR, 2004 Comp., p. 320; Presidential Determination 2007–7, 72 FR 1899, 3 CFR, 2006 Comp., p. 325; Notice of May 3, 2016, 81 FR 27293 (May 5, 2016); Notice of August 4, 2016, 81 FR 52587 (August 8, 2016).

SOURCE: 61 FR 12806, Mar. 25, 1996, unless otherwise noted.

§ 746.1 Introduction.

In this part, references to the EAR are references to 15 CFR chapter VII,

[1] Two of the three offices (Export Processing Zone Administration and the Science-Based Industrial Park Administration) are in special economic zones and are responsible for the activity in their respective zones.

subchapter C. This part implements broad based controls for items and activities subject to the EAR imposed to implement U.S. government policies. Two categories of controls are included in this part.

(a) *Comprehensive controls.* This part contains or refers to all the BIS licensing requirements, licensing policies, and License Exceptions for countries subject to general embargoes or comprehensive sanctions, currently Cuba, Iran, and Syria. This part is the focal point for all the EAR requirements for transactions involving these countries.

(1) *Cuba.* All the items on the Commerce Control List (CCL) require a license to Cuba. In addition, most other items subject to the EAR, but not included on the CCL, designated by the Number ''EAR99'', require a license to Cuba. Most items requiring a license to these destinations are subject to a general policy of denial. Because these controls extend to virtually all exports, they do not appear in the Country Chart in part 738 of the EAR, nor are they reflected in the Commerce Control List in part 774 of the EAR.

(2) *Iran.* BIS maintains license requirements and other restrictions on exports and reexports to Iran. A comprehensive embargo on transactions involving this country is administered by the Department of The Treasury's Office of Foreign Assets Control (OFAC).

(3) *Syria.* Pursuant to Sections 5(a)(1) and 5(a)(2)(A) of the Syria Accountability and Lebanese Sovereignty Restoration Act of 2003 (Pub. L. 108–175, codified as a note to 22 U.S.C. 2151) (the SAA), since May 14, 2004 BIS has maintained a prohibition on the export to Syria of all items on the Commerce Control List (in 15 CFR part 774) (CCL) and a prohibition on the export to Syria of products of the United States, other than food and medicine. The President also exercised national security waiver authority pursuant to Section 5(b) of the SAA for certain transactions. Section 746.9 of this part sets forth the specific license requirements, licensing policy and license exceptions applicable to Syria as a sanctioned country under the EAR. These provisions were issued consistent with Executive Order 13338 of May 11, 2004 which implemented the SAA.

(b) *Sanctions on selected categories of items to specific destinations.* (1) BIS controls the export and reexport of selected categories of items to countries under United Nations Security Council arms embargoes. See the Commerce Control List in supplement no. 1 to part 774. See also §§ 746.3 (Iraq) and 746.4 (North Korea).

(2) The countries subject to United Nations Security Council arms embargoes are: Central African Republic, Democratic Republic of the Congo, Eritrea, Iran, Iraq, Lebanon, Libya, North Korea, Somalia, and Sudan.

(3) A license is required to export or reexport items identified in Part 774 as having a ''UN'' reason for control to countries identified in paragraph (b)(2) of this section. To the extent consistent with United States national security and foreign policy interests, BIS will not approve applications for such licenses if the authorization would be contrary to the relevant United Nations Security Council Resolution.

(4) You may not use any License Exception, other than License Exception GOV, for items for personal or official use by personnel and agencies of the U.S. Government or agencies of cooperating governments as set forth in § 740.11(b) of the EAR, to export or reexport items with a UN reason for control to countries listed in paragraph (b)(2) of this section. This paragraph does not apply to Iraq, which is governed by § 746.3(c) of this part; North Korea, which is governed by § 746.4(c) of this part; or Iran, which is governed by § 746.7(c) of this part.

(c) *Russian Industry Sector Sanctions.* The Russian Industry Sector Sanctions are set forth under § 746.5 and referenced under the License Requirements section of certain Export Control Classification Numbers (ECCNs) in supplement No. 1 to part 774 (Commerce Control List), as well as in a footnote to the Commerce Country Chart in supplement no. 1 to part 738.

(d) This part also contains descriptions of controls maintained by the Office of Foreign Assets Control in the Treasury Department and by the Directorate of Defense Trade Controls in the Department of State. Comprehensive embargoes and supplemental controls implemented by BIS under the EAR

usually also involve controls on items and activities maintained by these agencies. This part sets forth the allocation of licensing responsibilities between BIS and these other agencies. References to the requirements of other agencies are informational; for current, complete, and authoritative requirements, you should consult the appropriate agency's regulations.

[61 FR 12806, Mar. 25, 1996, as amended at 62 FR 25459, May 9, 1996; 65 FR 38160, June 19, 2000; 67 FR 70546, Nov. 25, 2002; 69 FR 3005, Jan. 22, 2004; 69 FR 23638, Apr. 29, 2004; 69 FR 46076, July 30, 2004; 72 FR 3725, Jan. 26, 2007; 73 FR 36, Jan. 2, 2008; 76 FR 77117, Dec. 12, 2011; 77 FR 42975, July 23, 2012; 78 FR 22723, Apr. 16, 2013; 79 FR 32625, June 5, 2014; 79 FR 45679, Aug. 6, 2014; 81 FR 76861, Nov. 4, 2016]

§ 746.2 Cuba.

(a) *License requirements*. As authorized by section 6 of the Export Administration Act of 1979, as amended (EAA) and by the Trading with the Enemy Act of 1917, as amended, you will need a license to export or reexport all items subject to the EAR (see part 734 of the EAR for the scope of items subject to the EAR) to Cuba, including any release of technology or source code subject to the EAR to a Cuban national, except as follows:

(1) *License exceptions*. You may export or reexport without a license if your transaction meets all the applicable terms and conditions of any of the following License Exceptions. To determine the scope and eligibility requirements, you will need to turn to the sections or specific paragraphs of part 740 of the EAR (License Exceptions). Read each License Exception carefully, as the provisions available for embargoed countries are generally narrow.

(i) Temporary exports and reexports (TMP) by the news media (see § 740.9(a)(9) of the EAR).

(ii) Operation technology and software (TSU) for legally exported commodities or software (see § 740.13(a) of the EAR).

(iii) Sales technology (TSU) (see § 740.13(b) of the EAR).

(iv) Software updates (TSU) for legally exported software (see § 740.13(c) of the EAR).

(v) Parts (RPL) for one-for-one replacement in certain legally exported commodities (see § 740.10(a) of the EAR).

(vi) Baggage (BAG) (see § 740.14 of the EAR).

(vii) Governments and international organizations (GOV) (see § 740.11 of the EAR).

(viii) Gift parcels and humanitarian donations (GFT) (see § 740.12 of the EAR).

(ix) Items in transit (TMP) from Canada through the U.S. (see § 740.9(b)(1)(iv) of the EAR).

(x) Aircraft, vessels and spacecraft (AVS) for certain aircraft on temporary sojourn; equipment and spare parts for permanent use on a vessel or aircraft, and ship and plane stores; vessels on temporary sojourn; or cargo transiting Cuba on aircraft or vessels on temporary sojourn (*see* § 740.15(a), (b), (d), and (e) of the EAR).

(xi) Permissive reexports of certain spare parts in foreign-made equipment (see § 740.16(h) of the EAR).

(xii) Exports of agricultural commodities, classified as EAR99, under License Exception Agricultural Commodities (AGR) and certain reexports of U.S. origin agricultural commodities, classified as EAR99, under License Exception AGR (see § 740.18 of the EAR).

(xiii) Commodities and software authorized under License Exception Consumer Communications Devices (CCD) (see § 740.19 of the EAR).

(xiv) License Exception Support for the Cuban People (SCP) (*see* § 740.21 of the EAR).

(2) *Deemed exports and deemed reexports*. A license is not required to release technology or source code subject to the EAR but not on the Commerce Control List (*i.e.*, EAR99 technology or source code) to a Cuban national in the United States or a third country.

(b) *Licensing policy*. Items requiring a license are subject to a general policy of denial, except as follows:

(1) *Medicines and Medical Devices*. Applications to export medicines and medical devices as defined in part 772 of the EAR will generally be approved, except:

(i) To the extent restrictions would be permitted under section 5(m) of the Export Administration Act of 1979, as amended (EAA), or section 203(b)(2) of

the International Emergency Economic Powers Act;

(ii) If there is a reasonable likelihood that the item to be exported will be used for purposes of torture or other human rights abuses;

(iii) If there is a reasonable likelihood that the item to be exported will be reexported;

(iv) If the item to be exported could be used in the production of any biotechnological product; or

(v) If it is determined that the United States government is unable to verify, by on-site inspection or other means, that the item to be exported will be used for the purpose for which it was intended and only for the use and benefit of the Cuban people, but this exception shall not apply to donations of medicines for humanitarian purposes to a nongovernmental organization in Cuba.

(2) *Exports and reexports that generally will be approved.* Applications for licenses to export or reexport the following generally will be approved:

(i) Telecommunications items that would improve communications to, from, and among the Cuban people;

(ii) Commodities and software to human rights organizations or to individuals and non-governmental organizations that promote independent activity intended to strengthen civil society in Cuba;

(iii) Commodities and software to U.S. news bureaus in Cuba whose primary purpose is the gathering and dissemination of news to the general public;

(iv) Agricultural items that are outside the scope of agricultural commodities as defined in part 772 of the EAR, such as insecticides, pesticides and herbicides, and agricultural commodities not eligible for License Exception AGR;

(v) Items necessary to ensure the safety of civil aviation and the safe operation of commercial aircraft engaged in international air transportation, including the export or reexport of such aircraft leased to state-owned enterprises; and

(vi) Items necessary for the environmental protection of U.S. and international air quality, waters, or coastlines (including items related to renewable energy or energy efficiency).

(3) *Exports and reexports that may be authorized on a case-by-case basis.* (i) Applications for licenses to export or reexport items to meet the needs of the Cuban people, including exports and reexports of such items to state-owned enterprises, agencies, and other organizations of the Cuban government that provide goods and services for the use and benefit of the Cuban people may be authorized on a case-by-case basis. This policy of case-by-case review includes applications for licenses to export or reexport items for:

(A) Agricultural production, artistic endeavors (including the creation of public content, historic and cultural works and preservation), education, food processing, disaster preparedness, relief and response, public health and sanitation, residential construction and renovation and public transportation;

(B) Wholesale and retail distribution for domestic consumption by the Cuban people;

(C) Construction of facilities for treating public water supplies, facilities for supplying electricity or other energy to the Cuban people, sports and recreation facilities, and other infrastructure that directly benefits the Cuban people; and

(D) Items that will enable or facilitate export from Cuba of items produced by the private sector.

NOTE 1 TO PARAGRAPH (b)(3)(i): Licenses issued pursuant to the policy set forth in this paragraph generally will have a condition prohibiting both reexports from Cuba to any other destination and uses that enable or facilitate the export of goods or services from Cuba, that primarily generate revenue for the state.

NOTE 2 TO PARAGRAPH (b)(3)(i): The policy of case-by-case review in this paragraph is intended to facilitate exports and reexports to meet the needs of the Cuban people. Accordingly, BIS generally will deny applications to export or reexport items for use by state-owned enterprises, agencies, and other organizations that primarily generate revenue for the state, including those engaged in tourism and those engaged in the extraction or production of minerals or other raw materials. Applications for export or reexport of items destined to the Cuban military, police, intelligence or security services also generally will be denied.

(ii) Applications for exports or reexports of aircraft or vessels on temporary sojourn to Cuba either to deliver humanitarian goods or services, or consistent with the foreign policy interests of the United States, may be authorized on a case-by-case basis.

(c) *Definitions.* For purposes of this section, ''U.S. person'' means any person subject to the jurisdiction of the United States, as described in § 515.329 of the Cuban Assets Control Regulations (31 CFR 515.329).

(d) *Related controls.* OFAC maintains controls on the activities of persons subject to U.S. jurisdiction, wherever located, involving transactions with Cuba or any Cuban national, as provided in 31 CFR part 515. Exporters and reexporters should consult with OFAC for further guidance on its related controls.

[61 FR 12802, Mar. 25, 1996, as amended at 61 FR 64284, Dec. 4, 1996; 62 FR 9364, Mar. 3, 1997; 62 FR 25459, May 9, 1997; 64 FR 25808, May 13, 1999; 66 FR 36682, July 12, 2001; 69 FR 5690, Feb. 6, 2004; 69 FR 34567, June 22, 2004; 74 FR 45990, Sept. 8, 2009; 79 FR 32625, June 5, 2014; 80 FR 2290, Jan. 16, 2015; 80 FR 43318, July 22, 2015; 80 FR 56904, Sept. 21, 2015; 81 FR 4582, Jan. 27, 2016; 81 FR 13974, Mar. 16, 2016; 81 FR 71367, Oct. 17, 2016]

§ 746.3 Iraq.

Pursuant to United Nations Security Council (UNSC) Resolutions 1483 and 1546 and other relevant resolutions, the United Nations maintains an embargo on the sale or supply to Iraq of arms and related materiel and their means of production, except items required by the Government of Iraq to serve the purposes of Resolution 1546. UNSC Resolutions 707 and 687 require that Iraq eliminate its nuclear weapons program and restrict its nuclear activities to the use of isotopes for medical, industrial or agricultural purposes. Such resolutions further mandate that Iraq eliminate its chemical and biological weapons programs as well as its ballistic missile program. In support of the applicable UNSC resolutions, certain Iraq specific license requirements and licensing policies are detailed in this section. In addition, this section details restrictions on transfers of items subject to the EAR within Iraq. Exporters should be aware that other provisions of the EAR, including parts 742 and 744, will continue to apply with respect to exports and reexports to Iraq and transfers within Iraq.

(a) *License requirements.* (1) A license is required for the export or reexport to Iraq or transfer within Iraq of any item controlled on the Commerce Control List for NS, MT, NP, CW, CB, RS, CC, EI, SI, or SL reasons. See part 742 of the EAR.

(2) A license is required for the export or reexport to Iraq or transfer within Iraq of any item controlled on the Commerce Control List for UN reasons.

(3) A license is required for the export or reexport to Iraq or transfer within Iraq of items on the Commerce Control List controlled for RS reasons under the following ECCNs: 0B999, 0D999, 1B999, 1C992, 1C995, 1C997, 1C999 and 6A992.

(4) A license is required for the export or reexport to Iraq or transfer within Iraq of any item subject to the EAR if, at the time of the export, reexport or transfer, you know, have reason to know, or are informed by BIS that the item will be, or is intended to be, used for a ''military end-use'' or by a ''military end-user'', as defined in this section. This license requirement does not apply to exports, reexports or transfers of items for the official use by personnel and agencies of the U.S. Government or exports, reexports or transfers to the Government of Iraq. See § 740.11(b)(3) of the EAR for the definition of ''agency of the U.S. Government.'' BIS may inform an exporter, reexporter, or other person, either individually by specific notice or through amendment to the EAR, that a license is required for export, reexport or transfer of items subject to the EAR to specified end-users, because BIS has determined that there is an unacceptable risk of diversion to the uses or users described in this paragraph. Specific notice is to be given only by, or at the direction of, the Deputy Assistant Secretary for Export Administration. When such notice is provided orally, it will be followed by a written notice within two working days signed by the Deputy Assistant Secretary for Export Administration. The absence of any such notification does not excuse the exporter, reexporter or other person

from compliance with the license requirements of this paragraph.

(i) *Military end-use*. In this section, the phrase ''military end-use'' means incorporation into a military item described on the U.S. Munitions List (USML) (22 CFR part 121, International Traffic in Arms Regulations) or the Wassenaar Arrangement Munitions List (WAML) (as set out on the Wassenaar Arrangement website at *http://www.wassenaar.org*); or use, development, or deployment of military items described on the USML or the WAML.

(ii) *Military end-user*. In this section, the term ''military end-user'' means any ''person'' whose actions or functions are intended to support ''military end-uses'' as defined in paragraph (a)(4)(i) of this section and who is not recognized as a legitimate military organization by the U.S. Government.

(5) *Definitions*. For purposes of exports or reexports to Iraq or transfers within Iraq, ''ballistic missile'' is defined as any missile capable of a range greater than 150 kilometers.

(b) *Licensing policy*. (1) License applications for the export or reexport to Iraq or transfer within Iraq of items listed in paragraph (a)(1), (a)(2), or (a)(3) of this section for Iraqi civil nuclear or military nuclear activity, except for use of isotopes for medical, industrial or agricultural purposes, will be subject to a policy of denial.

(2) License applications for the export or reexport to Iraq or transfer within Iraq of machine tools controlled for national security (NS) or nuclear nonproliferation (NP) reasons, as well as for any items controlled for crime control (CC) or United Nations (UN) reasons (including items classified under ECCN 0A986) or ECCNs that end in the number ''018'' or items classified under ''600 series'' ECCNs, that would make a material contribution to the production, research, design, development, support, maintenance or manufacture of Iraqi weapons of mass destruction, ballistic missiles or arms and related materiel will be subject to a general policy of denial. Exports of ''600 series'' items to the Government of Iraq will be reviewed under the policies set forth for such items in §§ 742.4(b) and 742.6(b) of the EAR.

(3) License applications for the export or reexport to Iraq or transfer within Iraq of items listed in paragraph (a)(3) of this section will be reviewed on a case-by-case basis to determine if they would contribute to the building of Iraqi civil infrastructure. Applications determined not to contribute to the building of Iraqi civil infrastructure will be subject to a general policy of denial.

(4) License applications for the export or reexport to Iraq or transfer within Iraq of items listed in paragraph (a)(4) of this section will be subject to a policy of denial.

(c) *License exceptions*. You may export or reexport without a license if your transaction meets all the requirements of any of the following License Exceptions: CIV, APP, TMP, RPL, GOV, GFT, TSU, BAG, AVS, or ENC. For specific requirements of each of these License Exceptions, refer to part 740 of the EAR. Notwithstanding the above, this paragraph may not be applied to exports or reexports that require a license under paragraph (a)(4) of this section.

(d) *Related State Department controls*. The Department of State, Directorate of Defense Trade Controls, maintains controls on arms and military equipment to Iraq under the International Traffic in Arms Regulations (22 CFR parts 120 through 130).

(e) *Transition for licenses issued by the Department of the Treasury's Office of Foreign Assets Control*. Prior to July 30, 2004, the Department of the Treasury's Office of Foreign Assets Control (OFAC) exercised primary licensing jurisdiction for transactions with Iraq, as provided in 31 CFR part 575. This section establishes a validity period for licenses issued by OFAC for exports or reexports to Iraq.

(1) *Validity period*. Licenses issued by OFAC for the export or reexport of items that require a license to Iraq under the Export Administration Regulations (EAR) shall continue to be valid under the EAR. For those licenses with specified expiration dates, such dates will continue to apply. Licenses without specified expiration dates will be valid through July 30, 2005. The recordkeeping requirements applicable to exports and reexports of

items pursuant to licenses issued by OFAC are described in paragraph (e)(3) of this section.

NOTE TO PARAGRAPH (e)(1): Persons that have been authorized by OFAC to export or reexport items that are subject to the export control jurisdiction of other agencies must consult with OFAC and the other relevant agencies with regard to the expiration date of the authorization granted by OFAC.

(2) *Reexports or transfers.* Items subject to a license requirement under the EAR for export or reexport to Iraq as of July 30, 2004, that were previously exported or reexported to Iraq under a specific license granted by OFAC:

(i) May not be transferred within Iraq to a new end-user without a license from BIS,

(ii) May be reexported to the United States without a license,

(iii) May be reexported to third countries subject to the license requirements for the destination, end-use or end-user set forth elsewhere in the EAR.

(3) *Recordkeeping requirement.* Persons in receipt of a specific license granted by OFAC described in paragraph (e)(1) of this section must maintain a record of those items exported or reexported to Iraq pursuant to such specific license and record when the items are consumed or destroyed in the normal course of their use in Iraq, reexported to a third country not requiring further authorization from BIS, or returned to the United States. This requirement applies only to items subject to a license requirement under the EAR for export to Iraq as of July 30, 2004. These records must be maintained in accordance with recordkeeping requirements set forth in part 762 of the EAR and must include the following information:

(i) Date of export or reexport and related details (including means of transport);

(ii) Description of items (including ECCN) and value of items in U.S. Dollars;

(iii) Description of proposed end-use and locations in Iraq where items are intended to be used;

(iv) Parties other than specific OFAC licensee who may be given temporary access to the items; and

(v) Date of consumption or destruction, if the items are consumed or destroyed in the normal course of their use in Iraq, or the date of reexport to a third country not requiring further authorization from BIS, or return to the United States.

(f) *License Requirements for certain transfers within Iraq of items subject to the EAR*—(1) *Licensed items.* A license is required for the transfer within Iraq of any item subject to the EAR exported or reexported pursuant to a specific license issued by the Department of the Treasury or a Department of Commerce specific license or License Exception.

(2) *Other items.* (i) A license is required for the transfer within Iraq of any item subject to the EAR, if, at the time of the transfer, you know, have reason to know, or are informed by BIS that the item will be used in the design, development, production or use of weapons of mass destruction or the means of their delivery, as set forth in part 744 of the EAR.

(ii) A license is required for the transfer within Iraq to designated terrorists or terrorist organizations, as set forth in §§ 744.12, 744.13, or 744.14 of the EAR.

[69 FR 46077, July 30, 2004, as amended at 71 FR 20886, Apr. 24, 2006; 71 FR 51718, Aug. 31, 2006; 71 FR 67036, Nov. 20, 2006; 73 FR 57509, Oct. 3, 2008; 78 FR 22723, Apr. 16, 2013; 79 FR 32625, June 5, 2014]

§ 746.4 North Korea.

(a) *Licensing requirements.* As authorized by section 6 of the Export Administration Act of 1979, as amended, and consistent with United Nations Security Council Resolution 1718, a license is required to export or reexport any item subject to the EAR (see part 734 of the EAR) to the Democratic People's Republic of Korea (North Korea), except food and medicines classified as EAR99 (definitions in part 772 of the EAR). Portions of certain license exceptions, set forth in paragraph (c) of this section, may be available. Exporters should be aware that other provisions of the EAR, including parts 742 and 744, also apply to exports and reexports to North Korea.

(b) *Licensing policy*. Items requiring a license are subject to case-by-case review, except as follows:

(1) *Luxury goods*. Applications to export or reexport luxury goods, e.g., luxury automobiles; yachts; gems; jewelry; other fashion accessories; cosmetics; perfumes; furs; designer clothing; luxury watches; rugs and tapestries; electronic entertainment software and equipment; recreational sports equipment; tobacco; wine and other alcoholic beverages; musical instruments; art; and antiques and collectible items, including but not limited to rare coins and stamps are subject to a general policy of denial. For further information on luxury goods, see supplement no. 1 to part 746.

(2) Applications to export or reexport arms and related materiel are subject to a general policy of denial. In addition, applications to export or reexport items specified by UN documents S/2006/814, S/2006/815 and S/2006/853 and other items that the UN Security Council or the Sanctions Committee established pursuant to UN Security Council Resolution 1718 has determined could contribute to North Korea's nuclear-related, ballistic missile-related or other weapons of mass destruction-related programs are also subject to a general policy of denial.

(3) Applications to export or reexport items controlled for NP and MT reasons (except ECCN 7A103 items) are subject to a general policy of denial.

(4) Applications to export or reexport humanitarian items (e.g., blankets, basic footwear, heating oil, and other items meeting subsistence needs) intended for the benefit of the North Korean people; items in support of United Nations humanitarian efforts; and agricultural commodities or medical devices items that are determined by BIS, in consultation with the interagency license review community, not to be luxury goods are subject to a general policy of approval.

(5) Other items on the CCL. See Section 742.19(b) of the EAR.

(c) *License exceptions*. You may export or reexport without a license if your transaction meets all the applicable terms and conditions of any of the license exception subsections specified in this paragraph. To determine scope and eligibility requirements, you will need to refer to the sections or specific paragraphs of part 740 (License Exceptions). Read each license exception carefully, as the provisions available for countries subject to sanctions are generally narrow.

(1) TMP for items for use by the news media as set forth in § 740.9(a)(9) of the EAR.

(2) GOV for items for personal or official use by personnel and agencies of the U.S. Government, the International Atomic Energy Agency (IAEA), or the European Atomic Energy Community (Euratom) as set forth in § 740.11(a), (b)(2) of the EAR.

(3) GFT, except that GFT is not available to export or reexport luxury goods as described in this section to North Korea.

(4) TSU for operation technology and software for lawfully exported commodities as set forth in § 740.13(a) and sales technology as set forth in § 740.13 (b) of the EAR.

(5) BAG for exports of items by individuals leaving the United States as personal baggage as set forth in § 740.14(a) through (d) of the EAR.

(6) AVS for civil aircraft as set forth in § 740.15(a)(4) of the EAR.

(d) The Secretary of State has designated North Korea as a country the government of which has repeatedly provided support for acts of international terrorism. For anti-terrorism controls, see Section 742.19 of the EAR.

(e) OFAC maintains controls on certain transactions involving persons subject to U.S. jurisdiction and North Korean entities or any specially designated North Korean national.

[72 FR 3725, Jan. 26, 2007, as amended at 72 FR 20223, Apr. 24, 2007; 79 FR 32625, June 5, 2014]

§ 746.5 Russian industry sector sanctions.

(a) *License requirements*—(1) *General prohibition*. As authorized by Section 6 of the Export Administration Act of 1979, a license is required to export, reexport or transfer (in-country) any item subject to the EAR listed in supplement No. 2 to this part and items specified in ECCNs 0A998, 1C992, 3A229, 3A231, 3A232, 6A991, 8A992, and 8D999 when you know that the item will be

used directly or indirectly in exploration for, or production of, oil or gas in Russian deepwater (greater than 500 feet) or Arctic offshore locations or shale formations in Russia, or are unable to determine whether the item will be used in such projects. Such items include, but are not limited to, drilling rigs, parts for horizontal drilling, drilling and completion equipment, subsea processing equipment, Arctic-capable marine equipment, wireline and down hole motors and equipment, drill pipe and casing, software for hydraulic fracturing, high pressure pumps, seismic acquisition equipment, remotely operated vehicles, compressors, expanders, valves, and risers. You should be aware that other provisions of the EAR, including parts 742 and 744, also apply to exports and reexports to Russia. License applications submitted to BIS under this section may include the phrase ''section 746.5'' in Block 9 (Special Purpose) in supplement No. 1 to part 748.

(2) *Additional prohibition on those informed by BIS*. BIS may inform persons, either individually by specific notice or through amendment to the EAR, that a license is required for a specific export, reexport, or transfer (in-country) or for the export, reexport, or transfer (in-country) of specified items to a certain end-user or end-use, because there is an unacceptable risk of use in, or diversion to, the activities specified in paragraph (a)(1) of this section in Russia. Specific notice is to be given only by, or at the direction of, the Deputy Assistant Secretary for Export Administration. When such notice is provided orally, it will be followed by a written notice within two working days signed by the Deputy Assistant Secretary for Export Administration. However, the absence of any such notification does not excuse persons from compliance with the license requirements of paragraph (a)(1) of this section.

(b) *Licensing policy*. Applications for the export, reexport or transfer (in-country) of any item that requires a license for Russia will be reviewed with a presumption of denial when for use directly or indirectly for exploration or production from deepwater (greater than 500 feet), Arctic offshore, or shale projects in Russia that have the potential to produce oil.

(c) *License exceptions*. No license exceptions may overcome the license requirements set forth in this section, except License Exception GOV (§ 740.11(b)).

[79 FR 45680, Aug. 6, 2014, as amended at 79 FR 55615, Sept. 17, 2014; 80 FR 47405, Aug. 7, 2015]

§ 746.6 Crimea region of Ukraine.

(a) *License requirements*—(1) *General prohibition*. As authorized by Section 6 of the Export Administration Act of 1979, a license is required to export or reexport any item subject to the EAR to the Crimea region of Ukraine and the transfer within the Crimea region of Ukraine except food and medicine designated as EAR99 or software that is necessary to enable the exchange of personal communications over the Internet (such as instant messaging, chat and email, social networking, sharing of photos and movies, Web browsing, and blogging), provided that such software is designated EAR99 or is classified as mass market software under Export Control Classification Number (ECCN) 5D992.c of the EAR, and provided further that such software is widely available to the public at no cost to the user. The 'Crimea region of Ukraine' includes the land territory in that region as well as any maritime area over which sovereignty, sovereign rights, or jurisdiction is claimed based on purported annexation of that land territory.

(2) For purposes of applying the EAR deemed export and deemed reexport requirements for foreign nationals located in or from the Crimea region of Ukraine, the nationality of the foreign national (as determined by accepted methods, such as looking to the passport or other nationality document(s) recognized by the United States Government) is what is used for purposes of determining whether a license is required for a deemed export or deemed reexport. For any other export, reexport or transfer (in-country), see the license requirements specified in paragraph (a).

(b) *License review policy*. Applications will be reviewed with a presumption of denial, except for items authorized

under OFAC Ukraine-Related General License No. 4 which will be reviewed on a case-by-case basis.

(c) *License exceptions*. You may export, reexport or transfer (in-country) without a license if your transaction meets all the applicable terms and conditions of any of the license exception paragraphs specified in this paragraph (c). To determine scope and eligibility requirements, you will need to refer to the sections or specific paragraphs of part 740 (License Exceptions). Read each license exception carefully, as the provisions available for countries subject to sanctions are generally narrow.

(1) TMP for items for use by the news media as set forth in § 740.9(a)(9) of the EAR.

(2) GOV for items for personal or official use by personnel and agencies of the U.S. Government, the International Atomic Energy Agency (IAEA), or the European Atomic Energy Community (Euratom) as set forth in § 740.11(a) and (b)(2) of the EAR.

(3) GFT for gift parcels and humanitarian donations as set forth in § 740.12.

(4) TSU for operation technology and software for lawfully exported commodities as set forth in § 740.13(a) and sales technology as set forth in § 740.13 (b) of the EAR.

(5) BAG for exports of items by individuals leaving the United States as personal baggage as set forth in § 740.14(a) through (d) of the EAR.

(6) AVS for civil aircraft and vessels as set forth in § 740.15(a)(4) and (d) of the EAR.

[80 FR 4778, Jan. 29, 2015, as amended at 80 FR 29533, May 22, 2015]

§ 746.7 Iran.

The Treasury Department's Office of Foreign Assets Control (OFAC) administers a comprehensive trade and investment embargo against Iran. This embargo includes prohibitions on exports and certain reexport transactions involving Iran, including transactions dealing with items subject to the EAR. These prohibitions are set forth in OFAC's Iranian Transactions Regulations (31 CFR part 560). In addition, BIS maintains licensing requirements on exports and reexports to Iran under the EAR as described in paragraph (a)(1) of this section or elsewhere in the EAR (*See, e.g.*, § 742.8—Anti-terrorism: Iran).

(a) *License Requirements*—(1) *EAR license requirements*. A license is required under the EAR to export or reexport to Iran any item on the CCL containing a CB Column 1, CB Column 2, CB Column 3, NP Column 1, NP Column 2, NS Column 1, NS Column 2, MT Column 1, RS Column 1, RS Column 2, CC Column 1, CC Column 2, CC Column 3, AT Column 1 or AT Column 2 in the Country Chart Column of the License Requirements section of an ECCN or classified under ECCNs 0A980, 0A982, 0A983, 0A985, 0E982, 1C355, 1C395, 1C980, 1C982, 1C983, 1C984, 2A994, 2D994, 2E994, 5A001.f.1, 5A980, 5D001 (for 5A001.f.1or for 5E001.a (for 5A001.f.1, or for 5D001.a (for 5A001.f.1))), 5D980, 5E001.a (for 5A001.f.1, or for 5D001.a (for 5A001.f.1)) or 5E980.

(2) *BIS authorization*. To avoid duplication, exporters or reexporters are not required to seek separate authorization from BIS for an export or reexport subject both to the EAR and to OFAC's Iranian Transactions Regulations. Therefore, if OFAC authorizes an export or reexport, such authorization is considered authorization for purposes of the EAR as well. Transactions that are not subject to OFAC regulatory authority may require BIS authorization.

(b) *Licensing Policy*. Applications for licenses for transactions for humanitarian reasons or for the safety of civil aviation and safe operation of U.S-origin aircraft will be considered on a case-by-case basis. Licenses for other purposes generally will be denied.

(c) *License Exceptions*. No license exceptions may be used for exports or reexports to Iran.

(d) *EAR Anti-terrorism controls*. The Secretary of State has designated Iran as a country that has repeatedly provided support for acts of international terrorism. Anti-terrorism license requirements and licensing policy regarding Iran are set forth in § 742.8 of the EAR.

(e) *Prohibition on exporting or reexporting EAR items without required OFAC authorization*. No person may export or reexport any item that is subject to the EAR if such transaction is prohibited by the Iranian Transactions Regulations (31 CFR part 560) and not authorized by OFAC. The prohibition

of this paragraph (e) applies whether or not the EAR requires a license for the export or reexport.

[74 FR 2358, Jan. 15, 2009, as amended at 77 FR 39369, July 2, 2012; 78 FR 37383, June 20, 2013; 81 FR 29486, May 12, 2016]

§ 746.8 [Reserved]

§ 746.9 Syria.

Sections 5(a)(1) and 5(a)(2)(A) of the Syria Accountability and Lebanese Sovereignty Restoration Act of 2003 (Pub. L. 108–175, codified as a note to 22 U.S.C. 2151) (the SAA) require a prohibition on the export to Syria of all items on the Commerce Control List (in 15 CFR part 774) (CCL) and a prohibition on the export to Syria of products of the United States, other than food and medicine. The President also exercised national security waiver authority pursuant to Section 5(b) of the SAA for certain transactions. The provisions in this section were issued consistent with Executive Order 13338 of May 11, 2004 which implemented the SAA.

(a) *License requirements.* A license is required for the export or reexport to Syria of all items subject to the EAR, except food and medicine classified as EAR99 (food and medicine are defined in part 772 of the EAR). A license is required for the ''deemed export'' and ''deemed reexport,'' as described in § 734.2(b) of the EAR, of any technology or source code on the Commerce Control List (CCL) to a Syrian foreign national. ''Deemed exports'' and ''deemed reexports'' to Syrian foreign nationals involving technology or source code subject to the EAR but not listed on the CCL do not require a license.

(b) *License Exceptions.* No License Exceptions to the license requirements set forth in paragraph (a) of this section are available for exports or reexports to Syria, except the following:

(1) TMP for items for use by the news media as set forth in § 740.9(a)(9) of the EAR,

(2) GOV for items for personal or official use by personnel and agencies of the U.S. Government as set forth in § 740.11(b)(2) of the EAR,

(3) TSU for operation technology and software, sales technology, and software updates pursuant to the terms of § 740.13(a), (b), or (c) of the EAR,

(4) BAG for exports of personally-owned items by individuals leaving the United States as personal baggage pursuant to the terms of § 740.14(a) through (d), only, of the EAR, and

(5) AVS for the temporary sojourn of civil aircraft reexported to Syria pursuant to the terms of § 740.15(a)(4) of the EAR.

(c) *Licensing policy.* (1) Except as described in this paragraph (c), all license applications for export or reexport to Syria are subject to a general policy of denial. License applications for ''deemed exports'' and ''deemed reexports'' of technology and source code will be reviewed on a case-by-case basis. BIS may consider, on a case-by-case basis, license applications for exports and reexports of items necessary to carry out the President's constitutional authority to conduct U.S. foreign affairs and as Commander-in-Chief, including exports and reexports of items necessary for the performance of official functions by the United States Government personnel abroad.

(2) BIS may also consider the following license applications on a case-by-case basis: items in support of activities, diplomatic or otherwise, of the United States Government (to the extent that regulation of such exportation or reexportation would not fall within the President's constitutional authority to conduct the nation's foreign affairs); medicine (on the CCL) and medical devices (both as defined in part 772 of the EAR); parts and components intended to ensure the safety of civil aviation and the safe operation of commercial passenger aircraft; aircraft chartered by the Syrian Government for the transport of Syrian Government officials on official Syrian Government business; telecommunications equipment and associated computers, software and technology; items in support of United Nations operations in Syria; and items necessary for the support of the Syrian people, including, but not limited to, items related to water supply and sanitation, agricultural production and food processing, power generation, oil and gas production, construction and engineering,

transportation, and educational infrastructure. The total dollar value of each approved license for aircraft parts for flight safety normally will be limited to no more than $2 million over the 24-month standard license term, except in the case of complete overhauls.

(3) In addition, consistent with part 734 of the EAR, the following are not subject to the EAR and therefore not subject to this General Order: informational materials in the form of books and other media; publicly available software and technology; and technology exported in the form of a patent application or an amendment, modification, or supplement thereto or a division thereof (see 15 CFR 734.3(b)(1)(v), (b)(2) and (b)(3)).

NOTE TO §746.9: For administrative reasons, BIS continues to maintain provisions in General Order No. 2, supplement no. 1 to part 736 of the EAR relating to the President's waiver of certain prohibitions. This section contains all of the substantive controls against Syria, including the waiver-related provisions maintained in General Order No. 2.

[76 FR 77117, Dec. 12, 2011, as amended at 78 FR 43973, July 23, 2013; 79 FR 32625, June 5, 2014]

SUPPLEMENT NO. 1 TO PART 746—EXAMPLES OF LUXURY GOODS

The following further amplifies the illustrative list of luxury goods set forth in §746.4(b)(1):

(a) Tobacco and tobacco products

(b) Luxury watches: Wrist, pocket, and others with a case of precious metal or of metal clad with precious metal

(c) Apparel and fashion items, as follows:

(1) Leather articles

(2) Silk articles

(3) Fur skins and artificial furs

(4) Fashion accessories: Leather travel goods, vanity cases, binocular and camera cases, handbags, wallets, designer fountain pens, silk scarves

(5) Cosmetics, including beauty and makeup

(6) Perfumes and toilet waters

(7) Designer clothing: Leather apparel and clothing accessories

(d) Decorative items, as follows:

(1) Rugs and tapestries

(2) Tableware of porcelain or bone china

(3) Items of lead crystal

(4) Works of art (including paintings, original sculptures and statuary), antiques (more than 100 years old), and collectible items, including rare coins and stamps

(e) Jewelry: Jewelry with pearls, gems, precious and semi-precious stones (including diamonds, sapphires, rubies, and emeralds), jewelry of precious metal or of metal clad with precious metal

(f) Electronic items, as follows:

(1) Flat-screen, plasma, or LCD panel televisions or other video monitors or receivers (including high-definition televisions), and any television larger than 29 inches; DVD players

(2) Personal digital assistants (PDAs)

(3) Personal digital music players

(4) Computer laptops

(g) Transportation items, as follows:

(1) Yachts and other aquatic recreational vehicles (such as personal watercraft)

(2) Luxury automobiles (and motor vehicles): Automobiles and other motor vehicles to transport people (other than public transport), including station wagons

(3) Racing cars, snowmobiles, and motorcycles

(4) Personal transportation devices (standup motorized scooters)

(h) Recreational items, as follows:

(1) Musical instruments

(2) Recreational sports equipment

(i) Alcoholic beverages: wine, beer, ales, and liquor

[72 FR 3726, Jan. 26, 2007, as amended at 72 FR 20223, Apr. 24, 2007]

SUPPLEMENT NO. 2 TO PART 746—RUSSIAN INDUSTRY SECTOR SANCTION LIST

The source for the Schedule B numbers and descriptions in this list comes from the Bureau of the Census's Schedule B concordance of exports 2014. Census's Schedule B List 2014 can be found at *http://www.census.gov/foreign-trade /schedules/b/2014 /index.html* The Introduction Chapter of the Schedule B provides important information about classifying products and interpretations of the Schedule B, e.g., NESOI means Not Elsewhere Specified or Included. In addition, important information about products within a particular chapter may be found at the beginning of chapters.

Schedule B	Description
7304110000	LINE PIPE OF A KIND USED FOR OIL OR GAS PIPELINES, SEAMLESS, OF STAINLESS STEEL
7304191020	LINE PIPE OF A KIND USED FOR OIL OR GAS PIPELINES, SEAMLESS, OF IRON (NONCAST) OR NONALLOY STEEL, WITH AN OUTSIDE DIAMETER NOT EXCEEDING 114.3 MM

Schedule B	Description
7304191050	LINE PIPE FOR OIL OR GAS PIPELINES, SEAMLESS, IRON (NONCAST) OR NONALLOY STEEL, WITH OUTSIDE DIAMETER OVER 114.3 MM BUT NOT OVER 406.4 MM
7304191080	LINE PIPE OF A KIND USED FOR OIL OR GAS PIPELINES, SEAMLESS, OF IRON (NONCAST) OR NONALLOY STEEL, WITH AN OUTSIDE DIAMETER EXCEEDING 406.4 MM
7304195020	LINE PIPE OF A KIND USED FOR OIL OR GAS PIPELINES, SEAMLESS, OF OTHER ALLOY STEEL, NOT STAINLESS, WITH AN OUTSIDE DIAMETER NOT EXCEEDING 114.3 MM
7304195050	LINE PIPE, USED FOR OIL OR GAS PIPELINES, SEAMLESS, OF OTHER ALLOY STEEL, NOT STAINLESS, WITH AN OUTSIDE DIAMETER >114.3 MM, BUT <406.4 MM
7304195080	LINE PIPE OF A KIND USED FOR OIL OR GAS PIPELINES, SEAMLESS, OF ALLOY STEEL, NOT STAINLESS, WITH AN OUTSIDE DIAMETER EXCEEDING 406.4 MM
7304220000	OIL WELL DRILL PIPE, OF STAINLESS STEEL
7304233000	OIL WELL DRILL PIPE, OF IRON OR NONALLOY STEEL
7304236000	OIL WELL DRILL PIPE, OF ALLOY STEEL OTHER THAN STAINLESS STEEL
7304241000	OIL WELL CASING OF STAINLESS STEEL
7304246000	OIL WELL TUBING OF STAINLESS STEEL
7304291055	OIL WELL CASING OF IRON OR NONALLOY STEEL
7304293155	OIL WELL CASING OF OTHER ALLOY STEEL NOT STAINLESS
7304295000	OIL WELL TUBING OF IRON OR NONALLOY STEEL
7304296100	OIL WELL TUBING OF OTHER ALLOY STEEL OTHER THAN STAINLESS STEEL
7305111000	LINE PIPE FOR OIL OR GAS, LONGITUDINALLY SUBMERGED ARC WELDED, EXTERNAL DIAMETER MORE THAN 406.4 MM, CIRCULAR CROSS-SECTIONS, OF IRON OR NONALLOY STEEL
7305115000	LINE PIPE FOR OIL/GAS PIPELINES, LONGITUDINALLY SUBMERGED ARC WELDED WITH EXTERNAL DIAMETER OVER 406.4 MM, OF ALLOY STEEL, WITH CIRCULAR CROSS-SECTION
7305121000	LINE PIPE FOR OIL OR GAS, OTHER LONGITUDINALLY WELDED, EXTERNAL DIAMETER MORE THAN 406.4 MM, CIRCULAR CROSS-SECTION, IRON OR NONALLOY STEEL
7305125000	LINE PIPE FOR OIL OR GAS PIPELINES, LONGITUDINALLY WELDED WITH EXTERNAL DIAMETER >406.4 MM, OF ALLOY STEEL, WITH CIRCULAR CROSS SECTION
7305191000	LINE PIPE FOR OIL OR GAS OTHER THAN LONGITUDINALLY WELDED, EXTERNAL DIAMETER MORE THAN 406.4 MM, CIRCULAR CROSS-SECTION, IRON OR NONALLOY STEEL
7305195000	LINE PIPE FOR OIL OR GAS PIPELINES, WITH EXTERNAL DIAMETER >406.4 MM, OF ALLOY STEEL, CIRCULAR CROSS SECTION, WELDED/RIVETED, NESOI
7305203000	CASING, OIL OR GAS DRILLING, OTHER THAN SEAMLESS, CIRCULAR CROSS-SECTION, EXTERNAL DIAMETER OVER 406.4 MM, IRON OR NONALLOY STEEL
7305207000	CASING, OIL OR GAS DRILLING, OTHER THAN SEAMLESS, CIRCULAR CROSS-SECTION, EXTERNAL DIAMETER OVER 406.4 MM, ALLOY STEEL
7306110000	LINE PIPE FOR OIL OR GAS NOT SEAMLESS NESOI, OF STAINLESS STEEL
7306191000	LINE PIPE FOR OIL OR GAS NOT SEAMLESS NESOI, OF IRON OR NONALLOY STEEL
7306195000	LINE PIPE FOR OIL OR GAS NOT SEAMLESS NESOI, OF ALLOY STEEL OTHER THAN STAINLESS STEEL
7311000000	CONTAINERS FOR COMPRESSED OR LIQUEFIED GAS OF IRON OR STEEL
7613000000	ALUMINUM CONTAINERS FOR COMPRESSED OR LIQUEFID GAS
8207130000	ROCK DRILLING OR EARTH BORING TOOLS WITH WORKING PART OF CERMETS, AND PARTS THEREOF
8207191030	PERCUSSION ROCK DRILL BITS, CORE BITS AND REAMERS, OF BASE METAL, AND PARTS THEREOF
8207192030	ROTARY ROCK DRILL BITS, CORE BITS AND REAMERS OF BASE METAL, AND PARTS THEREOF
8207195030	ROCK DRILLING OR EARTH BORING TOOLS OF BASE METALS, NESOI, AND PARTS THEREOF
8413500010	OIL WELL AND OIL FIELD PUMPS, RECIPROCATING POSITIVE DISPLACEMENT
8413600050	OIL WELL AND OIL FIELD PUMPS, ROTARY POSITIVE DISPLACEMENT
8413820000	LIQUID ELEVATORS
8413920000	PARTS OF LIQUID ELEVATORS
8421398020	ELECTROSTATIC PRECIPITATORS, INDUSTRIAL GAS CLEANING EQUIPMENT
8421398030	INDUSTRIAL GAS CLEANING EQUIPMENT, NESOI
8421398040	GAS SEPARATION EQUIPMENT
8430494000	OFFSHORE OIL AND NATURAL GAS DRILLING AND PRODUCTION PLATFORMS
8430498010	BORING OR SINKING MACHINERY, ROTARY, FOR OIL WELL AND GAS FIELD DRILLING
8430498020	BORING OR SINKING MACHINERY FOR OIL WELL AND GAS FIELD DRILLING, NESOI
8431390050	PARTS SUITABLE FOR USE SOLELY OR PRINCIPALLY WITH THE OIL AND GAS FIELD MACHINERY OF HEADINGS 8425 TO 8430
8431434000	OFFSHORE OIL AND NATURAL GAS DRILLING AND PRODUCTION PLATFORM PARTS, OF SUBHEADING 8430.41 OR 8430.49
8431438010	PARTS OF OIL AND GAS FIELD MACHINERY OF SUBHEADING 8430.49 EXCEPT PARTS OF OFFSHORE DRILLING AND PRODUCTION PLATFORMS
8431438090	PARTS OF BORING OR SINKING MACHINERY OF SUBHEADING 8430.41 OR 8430.49, NESOI
8479899850	OIL AND GAS FIELD WIRE LINE AND DOWNHOLE EQUIPMENT
8705200000	MOBILE DRILLING DERRICKS
8708998175	PARTS AND ACCESSORIES, FOR MOTOR VEHICLES OF HEADING 8705.20, NESOI

Schedule B	Description
8905200000	FLOATING OR SUBMERSIBLE DRILLING OR PRODUCTION PLATFORMS
8905901000	FLOATING DOCKS

[79 FR 45680, Aug. 6, 2014]

PART 747—SPECIAL IRAQ RECONSTRUCTION LICENSE

Sec.
747.1 Scope.
747.2 Eligibility requirements.
747.3 Eligible items.
747.4 Steps you must follow to apply for a SIRL.
747.5 SIRL application review process.

AUTHORITY: 50 U.S.C. 4601 *et seq.;* 50 U.S.C. 1701 *et seq.;* Sec. 1503, Pub. L. 108–11, 117 Stat. 559; E.O. 12918, 59 FR 28205, 3 CFR, 1994 Comp., p. 899; E.O. 13222, 66 FR 44025, 3 CFR, 2001 Comp., p. 783; Presidential Determination 2003–23, 68 FR 26459, 3 CFR, 2004 Comp., p. 320; Notice of August 4, 2016, 81 FR 52587 (August 8, 2016).

SOURCE: 69 FR 46078, July 30, 2004, unless otherwise noted.

EFFECTIVE DATE NOTE: At 81 FR 87426, Dec. 5, 2016, part 747 was removed and reserved, effective Jan. 4, 2017.

§ 747.1 Scope.

A Special Iraq Reconstruction License (SIRL) authorizes exports and reexports to Iraq and transfers within Iraq of items in furtherance of civil reconstruction and other related projects.

§ 747.2 Eligibility requirements.

(a) A SIRL authorizes exports and reexports to Iraq and transfers within Iraq of items in furtherance of civil reconstruction and other projects funded by:

(1) The United States Government;

(2) The United Nations, the World Bank, and the International Monetary Fund, their affiliated entities (*i.e.*, International Bank for Reconstruction and Development, International Finance Corporation, and United Nations Development Programme); and

(3) Any other entities that the U.S. Government may designate.

(b) To be eligible for a SIRL, exports, reexports or transfers must be made pursuant to and within the scope of contractual or similar arrangements in furtherance of civil reconstruction or other projects in Iraq funded by any of the entities described above.

§ 747.3 Eligible items.

All items subject to the EAR, other than items controlled for missile technology (MT), nuclear nonproliferation (NP) or chemical and biological weapons (CB) reasons, are eligible for export, reexport or transfer under a SIRL.

§ 747.4 Steps you must follow to apply for a SIRL.

(a) *Step One: Prepare your documentation.* (1) Form BIS-748P, Multipurpose Application, and Form BIS-748P-A, Item Appendix. You must complete the Multipurpose Application Form (BIS-748P) to apply for a SIRL. Applications must specifically describe, on Form BIS-748P-A, Item Appendix, all items subject to the EAR to be exported or reexported to Iraq, or transferred within Iraq, for which BIS approval is sought. Export control classification numbers (ECCNs) must be identified for all such items. Applicants should provide BIS commodity classifications, where available, as this will assist BIS to rule upon the application quickly.

(2) Form BIS-748P-B, End-User Appendix. All end-users must be identified on Form BIS-748P-B, End-User Appendix.

(b) *Step Two: Narrative statement to support application*—In support of an application for a SIRL, exporters must submit with the application a narrative statement that includes the following information:

(1) Identity of all parties to the proposed transaction;

(2) Detailed description of the project, funding entity, the contract or work order which formed the basis of the transaction, and any identification number or project code for that contract or work order;

(3) Explanation of how the project will contribute to the reconstruction of

Iraq and any potential security issues associated with the items to be exported, reexported or transferred;

(4) Written statement from one or more funding agencies referred to in § 747.2 addressing whether the transaction is likely to pose security issues;

(5) Certification that items will not be used in any of the prohibited proliferation activities described in part 744 of the EAR;

(6) For items that will remain in the control of the exporter, a commitment to return all items to the United States when the authorized project or activity is complete, excluding those items that are consumed in Iraq, absent specific permission from BIS; and

(7) Certification that parties to the transaction will obtain a license from BIS prior to transferring within Iraq or reexporting items to end-users not authorized under the SIRL, unless they would not require a BIS license to the new country of destination. (Please see the guidance in § 747.5(d) regarding the transfer of items to persons within Iraq not included on the End-User Appendix.)

§ 747.5 SIRL application review process.

(a) *Application processing time frames.* Upon receiving a complete application with all requisite supporting documentation, BIS may review the application for up to ten days before referring the application to the other appropriate agencies. Agencies have 30 days from the date of referral to process the application. The U.S. Government will review the application as expeditiously as possible.

(b) *Review policy.* (1) BIS will review SIRL applications on a case-by-case basis. To approve a SIRL, BIS must be satisfied that the parties to the license will adhere to the conditions of the license and the EAR, and that approval of the application will not be detrimental to U.S. national security, nonproliferation, or foreign policy interests. In reviewing and approving a specific SIRL application, BIS may retain the right to limit the items that are eligible or to prohibit the export, reexport, or transfer of items under the reconstruction license to specific firms or individuals.

(2) BIS will thoroughly analyze all parties, items and activities associated with the applicant's proposed transaction(s). If BIS cannot verify that all parties, items and activities are appropriate, or establish the reliability of the proposed parties to the application, it may deny the application, or modify it by eliminating certain consignees, items, activities or other elements.

(3) The licensing decision will focus on the following factors:

(i) The proposed end-use(s);

(ii) If the proposed transaction will contribute to the reconstruction of Iraq;

(iii) If the proposed transaction could contribute to the design, development, production, stockpiling, or use of nuclear or chemical or biological weapons, or missiles of greater than 150 kilometer range and the types of assurances available against these activities;

(iv) The potential impact of the proposed transaction on the security situation in Iraq; and

(v) The reliability of all parties to the proposed transaction.

(4) If the U.S. Government determines that the proposed transaction does not satisfy all the criteria of part 747, BIS will inform the applicant that the agency will review the application under standard license procedures for individual items rather than as a SIRL. The applicant may elect to have the application Returned Without Action. Applicants are not required to use the SIRL procedure and may seek authorization under standard license procedures.

(c) *Validity period.* SIRLs will be valid until the completion or discontinuation of the associated project detailed in the application or until otherwise determined by BIS. Applicants are required to submit a report to BIS verifying completion of the project or indicating that the project has been discontinued. These reports should be submitted to the following address: U.S. Department of Commerce, Office of Exporter Services, ATTN: Reports, 14th St. & Pennsylvania Ave., NW., Washington, DC, 20230. The report should include the following information:

(1) The SIRL reference number;

(2) The date the project is completed or discontinued;

(3) Verification that items exported under the authority of the SIRL were, as applicable, consumed during use, returned to the United States, reexported to a third country, or transferred to a party within Iraq for whom the applicant has received a license from BIS; and

(4) The reference numbers of the licenses received for the reexport or transfer within Iraq, if required.

(d) *Post-shipment information*. For any items exported or reexported pursuant to a SIRL that are not consumed in Iraq, the applicant must either:

(1) Return the items to the United States,

(2) Reexport the items to a third country, and obtain prior BIS approval where required; or

(3) Seek a license from BIS prior to transferring the items within Iraq to an end-user not identified on the End-User Appendix.

(e) *Changes to a SIRL*. Changes to a SIRL require BIS prior approval if they involve:

(1) Change to consignee name or address;

(2) Addition of new consignee;

(3) Addition of new item;

(4) Changes to end user information or additional end users added; and/or

(5) Change to license holder ownership or control. Applicants must submit a written request for a change to the Office of Exporter Services. BIS will respond to these requests in written form. Changes involving the following must be reported to BIS within 30 days of their occurrence but do not require prior BIS approval:

(i) License holder address, contact information, or license value; or

(ii) Removing consignee(s), items or end users from the SIRL.

(f) *Administrative actions*. If BIS believes any party to a SIRL is not complying with all conditions of the SIRL, BIS may take measures including revoking or suspending parts of the SIRL, or may restrict what items may be shipped under the SIRL. Whenever necessary to protect the national interest of the United States, BIS may take any licensing action it deems appropriate, without regard to contracts or agreements entered into before such administrative action.

PART 748—APPLICATIONS (CLASSIFICATION, ADVISORY, AND LICENSE) AND DOCUMENTATION

Sec.

748.1 General provisions.
748.2 Obtaining forms; mailing addresses.
748.3 Classification requests and advisory opinions.
748.4 Basic guidance related to applying for a license.
748.5 Parties to the transaction.
748.6 General instructions for license applications.
748.7 Registering for electronic submission of license applications and related documents.
748.8 Unique application and submission requirements.
748.9 Support documents for evaluation of foreign parties in license applications.
748.10 People's Republic of China (PRC) End-User Statement.
748.11 Statement by Ultimate Consignee and Purchaser.
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748.13 Granting of exceptions to the support documentation requirements.
748.14 [Reserved]
748.15 Authorization Validated End-User (VEU).
SUPPLEMENT NO. 1 TO PART 748—BIS-748P, BIS-748P-A; ITEM APPENDIX, AND BIS XA-748P-B; END-USER APPENDIX; MULTIPURPOSE APPLICATION INSTRUCTIONS
SUPPLEMENT NO. 2 TO PART 748—UNIQUE APPLICATION AND SUBMISSION REQUIREMENTS
SUPPLEMENT NO. 3 TO PART 748—STATEMENT BY ULTIMATE CONSIGNEE AND PURCHASER CONTENT REQUIREMENTS
SUPPLEMENT NO. 4 TO PART 748 [RESERVED]
SUPPLEMENT NO. 5 TO PART 748—U.S. IMPORT CERTIFICATE AND DELIVERY VERIFICATION PROCEDURE
SUPPLEMENT NO. 6 TO PART 748—AUTHORITIES ISSUING IMPORT CERTIFICATES UNDER THE FIREARMS CONVENTION [RESERVED]
SUPPLEMENT NO. 7 TO PART 748—AUTHORIZATION VALIDATED END-USER (VEU): LIST OF VALIDATED END-USERS, RESPECTIVE ITEMS ELIGIBLE FOR EXPORT, REEXPORT AND TRANSFER, AND ELIGIBLE DESTINATIONS
SUPPLEMENT NO. 8 TO PART 748—INFORMATION REQUIRED IN REQUESTS FOR VALIDATED END-USER (VEU) AUTHORIZATION
SUPPLEMENT NO. 9 TO PART 748—END-USER REVIEW COMMITTEE PROCEDURES

AUTHORITY: 50 U.S.C. 4601 *et seq.;* 50 U.S.C. 1701 *et seq.;* E.O. 13026, 61 FR 58767, 3 CFR, 1996 Comp., p. 228; E.O. 13222, 66 FR 44025, 3

CFR, 2001 Comp., p. 783; Notice of August 4, 2016, 81 FR 52587 (August 8, 2016).

§ 748.1 General provisions.

(a) *Scope*. In this part, references to the Export Administration Regulations or EAR are references to 15 CFR chapter VII, subchapter C. The provisions of this part involve requests for classifications and advisory opinions, export license applications, reexport license applications, and certain license exception notices subject to the EAR. All terms, conditions, provisions, and instructions, including the applicant and consignee certifications, contained in electronic or paper form(s) are incorporated as part of the EAR. For the purposes of this part, the term ''application'' refers to both electronic applications and the Form BIS–748P: Multipurpose Application.

(b) *BIS responses*. BIS will give a formal classification, advisory opinion or licensing decision only through the review of a properly completed application supported by all relevant facts and required documentation submitted in writing or electronically to BIS.

(c) *Confidentiality*. Consistent with section 12(c) of the Export Administration Act, as amended, information obtained for the purpose of considering license applications, and other information obtained by the U.S. Department of Commerce concerning license applications, will not be made available to the public without the approval of the Secretary of Commerce or of the Under Secretary for Industry and Security.

(d) *Electronic filing required*. All export and reexport license applications (other than Special Iraq Reconstruction License applications), License Exception AGR notifications, requests to authorize use of License Exception STA for ''600 series'' end items (which are currently submitted as export license applications) and classification requests and their accompanying documents must be filed via BIS's Simplified Network Application Processing system (SNAP–R), unless BIS authorizes submission via the paper forms BIS 748–P (Multipurpose Application Form), BIS–748P–A (Item Appendix) and BIS–748P–B, (End-User Appendix). Only original paper forms may be used. Facsimiles or reproductions are not acceptable.

(1) *Reasons for authorizing paper submissions*. BIS will process paper applications notices or requests if the submitting party meets one or more of the following criteria:

(i) BIS has received no more than one submission (*i.e.* the total number of export license applications, reexport license applications, license exception AGR notifications, *and* classification requests) from that party in the twelve months immediately preceding its receipt of the current submission;

(ii) The party does not have access to the Internet;

(iii) BIS has rejected the party's electronic filing registration or revoked its eligibility to file electronically;

(iv) BIS has requested that the party submit a paper copy for a particular transaction; or

(v) BIS has determined that urgency, a need to implement U.S. government policy or a circumstance outside the submitting party's control justify allowing paper submissions in a particular instance.

(2) *Procedure for requesting authorization to file paper applications, notifications, or requests*. The applicant must state in Block 24 or as an attachment to the paper application (Form BIS 748–P) which of the criteria in paragraph (d)(1) of this section it meets and the facts that support such statement. Submit the completed application, notification or request to Bureau of Industry and Security, U.S. Department of Commerce, 14th Street and Pennsylvania, NW., Room 2099B, Washington DC 20230.

(3) *BIS decision*. If BIS authorizes or requires paper filing pursuant to this section, it will process the application, notification or request in accordance with part 750 of the EAR. If BIS rejects a request to file using paper, it will return the Form BIS–748P and all attachments to the submitting party without action and will state the reason for its decision.

[61 FR 12812, Mar. 25, 1996, as amended at 70 FR 8249, Feb. 18, 2005; 73 FR 49329, Aug. 21, 2008; 75 FR 36499, June 25, 2010; 78 FR 13469, Feb. 28, 2013; 78 FR 22723, Apr. 16, 2013; 80 FR 51730, Aug. 26, 2015; 81 FR 64676, Sept. 20, 2016]

EFFECTIVE DATE NOTE: At 81 FR 87426, Dec. 5, 2016, § 748.1 was amended by removing the parenthetical phrase ''(other than Special Iraq Reconstruction License applications)'' from the first sentence of paragraph (d), effective Jan. 4, 2017.

§ 748.2 Obtaining forms; mailing addresses.

(a) You may obtain the forms required by the EAR from any U.S. Department of Commerce District Office; or in person or by telephone or facsimile from the following BIS offices:

(1) Outreach and Educational Services Division, U.S. Department of Commerce, 14th Street and Pennsylvania Ave., NW., Room H1099D, Washington, DC 20230, Tel: (202) 482–4811, Fax: (202) 482–2927, or

(2) Bureau of Industry and Security, Western Regional Office, U.S. Department of Commerce, 2302 Martin St., Suite 330, Irvine, CA 92612, Tel: (949) 660–0144, Fax: (949) 660–9347, or

(3) Bureau of Industry and Security, Western Regional Office, Northern California Branch, U.S. Department of Commerce, 160 W. Santa Clara Street, Suite 725, San Jose, CA 95113, Tel: (408) 998–8806, Fax: (408) 998–8677.

(b) For the convenience of foreign consignees and other foreign parties, certain BIS forms may be obtained at U.S. Embassies and Consulates throughout the world.

[61 FR 12812, Mar. 25, 1996, as amended at 69 FR 5690, Feb. 6, 2004; 70 FR 22249, Apr. 29, 2005; 72 FR 3945, Jan. 29, 2007; 73 FR 36, Jan. 2, 2008; 73 FR 49330, Aug. 21, 2008; 76 FR 40604, July 11, 2011; 78 FR 13469, Feb. 28, 2013; 79 FR 32626, June 5, 2014]

§ 748.3 Classification requests and advisory opinions.

(a) *Introduction*. You may ask BIS to provide you with the correct Export Control Classification Number (ECCN) down to the paragraph (or subparagraph) level, if appropriate. BIS will issue you a determination that each item identified in your classification request is either described by an ECCN in the Commerce Control List (CCL) in supplement no. 1 to part 774 of the EAR or not described by an ECCN and, therefore, an ''EAR99'' item. These classification determinations issued by BIS are not U.S. Government determinations that the items described therein are ''subject to the EAR,'' as this term is defined in § 734.3 of the EAR. Those who request commodity classifications and advisory opinions should have determined that the items at issue are not subject to the exclusive export control jurisdiction of one of the other U.S. Government agencies listed in § 734.3(b) of the EAR. If requested, for a given end-use, end-user, and/or destination, BIS will advise you whether a license is required, or likely to be granted, for a particular transaction. Note that these responses do not bind BIS to issuing a license in the future. This type of request, along with requests for guidance regarding other interpretations of the EAR, is commonly referred to as an ''Advisory Opinion.'' The encryption provisions in the EAR require the submission of a classification request in accordance with § 740.17(d) of the EAR in order for certain items to be eligible for export and reexport under License Exception ENC (see § 740.17 of the EAR) or to be released from ''EI'' controls (see §§ 740.17(b)(2) and 740.17(b)(3) of the EAR).

(b) *Classification requests*. Submit classification requests in accordance with the procedures in § 748.1.

(1) Each Classification Request must be limited to six items. Exceptions may be granted by BIS on a case-by-case basis for several related items if the relationship between the items is satisfactorily substantiated in the request. Classification requests must be supported by any descriptive literature, brochures, precise technical specifications or papers that describe the items in sufficient technical detail to enable classification by BIS submitted as PDF files attached to the SNAP–R submission unless a paper submission is authorized pursuant to § 748.1 of the EAR.

(2) When submitting a classification request, you must complete Blocks 1 through 5, 14, 22(a), (b), (c), (d), and (i), 24, and 25 on the application. You must provide a recommended classification in Block 22(a) and explain the basis for your recommendation based on the technical parameters specified in the appropriate ECCN in Block 24. If you are unable to determine a recommended classification for your item,

include an explanation in Block 24, identifying the ambiguities or deficiencies that precluded you from making a recommended classification.

(3) BIS assigns each of its commodity classifications a Commodity Classification Automated Tracking System (CCATS) number. Neither the BIS classification nor the CCATS number may be relied upon or cited as evidence that the U.S. Government has determined that the items described in the commodity classification determination are subject to the EAR (See 15 CFR 734.3).

(c) *Advisory opinions.* Advisory opinion requests must be in writing and be submitted to the address listed in § 748.1(d)(2). Both your letter and envelope must be marked ''Advisory Opinion.''

(1) Your letter must contain the following information if you are requesting guidance regarding interpretations of the EAR:

(i) The name, title, and telephone and facsimile numbers of the person to contact,

(ii) Your complete address comprised of street address, city, state, country, and postal code; and

(2) If you are requesting BIS to determine whether a license is required, or the licensing policy related to a particular end-use, end-user, and/or destination, in addition to the information required in § 748.3(c)(1) you must also include:

(i) All available information on the parties to the transaction and the proposed end-use or end-user,

(ii) The model number for each item, where appropriate,

(iii) The Export Control Classification Number, if known, for each item; and

(iv) Any descriptive literature, brochures, technical specifications or papers that describe the items in sufficient technical detail to enable BIS to verify the correct classification.

(3) Requests for Validated End-User authorization should be submitted in accordance with the provisions set forth in § 748.15 and supplement nos. 8 and 9 to this part.

(4) Advisory opinions are limited in scope to BIS's interpretation of EAR provisions. Advisory opinions differ from commodity classifications in that advisory opinions are not limited to the interpretation of provisions contained in the Commerce Control List. Advisory opinions may not be relied upon or cited as evidence that the U.S. Government has determined that the items described in the advisory opinion are not subject to the export control jurisdiction of another agency of the U.S. Government (See 15 CFR 734.3).

(d) *Classification requests for encryption items.* A classification request associated with encryption items transferred from the U.S. Munitions List consistent with Executive Order 13026 of November 15, 1996 (3 CFR, 1996 Comp., p. 228) and pursuant to the Presidential Memorandum of that date may be required to determine eligibility under License Exception ENC or for release from ''EI'' controls. Refer to supplement no. 6 to part 742 of the EAR for a complete list of technical information that is required for encryption classification requests. Refer to § 740.17(e)(3) and supplement no. 8 to part 742 of the EAR for information that is required to be submitted in a self-classification report. Refer to § 740.17(b) of the EAR for instructions regarding mass market encryption commodities and software, including self-classifications and classification requests. Refer to § 740.17 of the EAR for the provisions of License Exception ENC, including encryption self-classifications, classification requests and sales reporting. All classification requests, notifications and reports submitted to BIS pursuant to §§ 740.17 and 742.15(b) of the EAR will be reviewed by the ENC Encryption Request Coordinator, Ft. Meade, MD.

(e) *Classification requests to confirm that a ''part,'' ''component,'' ''accessory,'' ''attachment,'' or ''software'' is not ''specially designed''*—(1) *Scope.* If you have a ''part,'' ''component,'' ''accessory,'' ''attachment,'' or ''software'' that is ''specially designed'' on the basis of paragraph (a)(1) or (2) of the ''specially designed'' definition in § 772.1 of the EAR, you may submit a request in accordance with the procedures in § 748.1 to confirm that the item is not ''specially designed'' provided you meet the following criteria:

(i) The ''part,'' ''component,'' ''accessory,'' ''attachment,'' or ''software'' does not meet the criteria of exclusion paragraph (b)(3) of the ''specially designed'' definition, but would meet the criteria if the minor changes in form or fit were determined to be insignificant by the U.S. Government.

(ii) The performance capabilities of the ''part,'' ''component,'' ''accessory,'' ''attachment,'' or ''software'' are the same as those of a ''part,'' ''component,'' ''accessory,'' ''attachment,'' or ''software'' that would meet the criteria of exclusion paragraph (b)(3) of the definition of ''specially designed'' in §772.1 of the EAR.

(2) *Information to be provided.* Applicants wishing to submit a CCATS requesting confirmation that a ''part,'' ''component,'' ''accessory,'' ''attachment,'' or ''software'' is not ''specially designed'' must submit classification requests in accordance with the procedures in §748.1 and general provisions regarding submitting classification requests in §748.3(b). In addition, applicants must submit additional information identified in this paragraph (e)(2).

(i) The classification request must indicate in Block 24 or in a separate PDF attachment included with the CCATS submission that the ''part,'' ''component,'' ''accessory,'' ''attachment'' or ''software'' would meet the criteria in paragraph (e)(1)(i) and (ii) of this section;

(ii) A detailed explanation must be provided regarding all changes in form and fit; *and*

(iii) A rationale must be provided that explains why such changes in form and fit should be treated as minor or insignificant in terms of their role in the performance capabilities of the enumerated item.

(3) *U.S. Government Review.* Commodity classification requests submitted pursuant to §748.3(e) are reviewed by the Departments of Commerce, State and Defense. A consensus determination is required to confirm that a ''part,'' ''component,'' ''accessory,'' ''attachment,'' or ''software'' is not ''specially designed'' on the basis of this paragraph. The interagency review process will ensure U.S. national security and foreign policy interests are evaluated prior to any confirmation pursuant to §748.3(e). The interagency review will consider on a case-by-case basis whether a particular ''part,'' ''component,'' ''accessory,'' ''attachment,'' or ''software'' is ''specially designed'' taking into account all the following:

(i) The insignificance of the changes in form and fit;

(ii) The overall role of the ''part,'' ''component,'' ''accessory,'' ''attachment,'' or ''software'' in the performance capabilities of the enumerated or otherwise described item that it is used in or with;

(iii) How substantively common it is to the other ''part,'' ''component,'' ''accessory,'' ''attachment,'' or ''software'' that would meet the paragraph (b)(3) criteria;

(iv) Whether such a confirmation would be consistent with U.S. Government multilateral export control regime commitments; *and*

(v) Any other criteria that may be relevant in determining whether the ''part,'' ''component,'' ''accessory,'' ''attachment,'' or ''software'' is ''specially designed,'' including an evaluation of how such a confirmation may affect U.S. national security and foreign policy interests.

(4) *CCATS response.* The BIS response to the CCATS request will reflect the interagency consensus determination and the response will be made in accordance with the procedures in §§748.1 and 748.3(b). In addition, the BIS response will indicate one of the following:

(i) The ''part,'' ''component,'' ''accessory,'' ''attachment,'' or ''software'' is not ''specially designed'' on the basis of being within the scope of paragraph (b)(3) because the changes in form and fit have been determined by the U.S. Government to be minor or insignificant. In such cases, the new classification, which may be EAR99 or in another ECCN entry that does not use ''specially designed,'' will be provided as part of the BIS response;''

(ii) The request under §748.3(e) has been denied and the ''part,'' ''component,'' ''accessory,'' ''attachment,'' or ''software'' continues to be classified under a ''specially designed'' 'catch-all'

(see the definition of ''specially designed'' in § 772.1 of the EAR). The response will also include a determination regarding where the ''specially designed'' ''part,'' ''component,'' ''accessory,'' ''attachment,'' or ''software'' is classified on the CCL; or

(iii) Returned without action (RWA) because insufficient information was provided or information was not provided in a timely fashion. These requests will be reviewed closely, and they will likely require additional follow up questions of applicants, so responding to such requests in a timely fashion will be an important part of the process to ensure such requests are considered by the U.S. Government.

NOTE TO PARAGRAPH (e): Although these requests for confirmation that an item is not ''specially designed'' are also reviewed by the Departments of State and Defense, similar to § 748.3(b)(3), the public is reminded that neither the BIS classification nor the CCATS number may be relied upon or cited as evidence that the U.S. Government has determined that the ''parts,'' ''components,'' ''accessories,'' ''attachments'' and ''software'' described in the commodity classification determination or a release made from ''specially designed'' pursuant to § 748.3(e) are subject to the EAR (see § 734.3 of the EAR).

[61 FR 12812, Mar. 25, 1996, as amended at 61 FR 68585, Dec. 30, 1996; 62 FR 25461, May 9, 1997; 65 FR 62609, Oct. 19, 2000; 67 FR 38868, June 6, 2002; 68 FR 35785, June 17, 2003; 70 FR 8249, Feb. 18, 2005; 72 FR 33659, June 19, 2007; 73 FR 49330, Aug. 21, 2008; 75 FR 36499, June 25, 2010; 75 FR 45054, Aug. 2, 2010; 78 FR 22724, Apr. 16, 2013; 78 FR 61745, Oct. 3, 2013; 81 FR 64676, Sept. 20, 2016]

§ 748.4 Basic guidance related to applying for a license.

(a) *License applicant*—(1) *Export transactions*. Only a person in the United States may apply for a license to export items from the United States. The applicant must be the exporter, who is the U.S. principal party in interest with the authority to determine and control the sending of items out of the United States, except for Encryption License Arrangements (ELA) (see § 750.7(d) of the EAR). See definition of ''exporter'' in part 772 of the EAR.

(2) *Routed export transactions*. The U.S. principal party in interest or the duly authorized U.S. agent of the foreign principal party in interest may apply for a license to export items from the United States. Prior to submitting an application, the agent that applies for a license on behalf of the foreign principal party in interest must obtain a power of attorney or other written authorization from the foreign principal party in interest. See § 758.3(b) and (d) of the EAR.

(3) *Reexport transactions*. The U.S. or foreign principal party in interest, or the duly authorized U.S. agent of the foreign principal party in interest, may apply for a license to reexport controlled items from one country to another. Prior to submitting an application, an agent that applies for a license on behalf of a foreign principal party in interest must obtain a power-of-attorney or other written authorization from the foreign principal party in interest, unless there is a preexisting relationship by ownership, control, position of responsibility or affiliation. See power-of-attorney requirements in paragraph (b)(2) of this section.

(b) *Disclosure of parties on license applications and the power of attorney*—(1) *Disclosure of parties*. License applicants must disclose the names and addresses of all parties to a transaction. When the applicant is the U.S. agent of the foreign principal party in interest, the applicant must disclose the fact of the agency relationship, and the name and address of the agent's principal. If there is any doubt about which persons should be named as parties to the transaction, the applicant should disclose the names of all such persons and the functions to be performed by each in Block 24 of the application. Note that when the foreign principal party in interest is the ultimate consignee or end-user, the name and address need not be repeated in Block 24. See ''Parties to the transaction'' in § 748.5.

(2) *Power of attorney or other written authorization*—(i) *Requirement*. An agent must obtain a power of attorney or other written authorization from the principal party in interest, unless there is a preexisting relationship by ownership, control, position of responsibility or affiliation, prior to preparing or submitting an application for a license, when acting as either:

(A) An agent, applicant, licensee and exporter for a foreign principal party in interest in a routed transaction; or

(B) An agent who prepares an application for export on behalf of a U.S. principal party in interest who is the actual applicant, licensee and exporter in an export transaction.

(ii) *Application*. Block 7 of the application (documents on file with applicant) must be marked ''other'' and Block 24 (Additional information) must be marked ''748.4(b)(2)'' to indicate that the power of attorney or other written authorization is on file with the agent. See § 758.3(d) for power of attorney requirement, and see also part 762 of the EAR for recordkeeping requirements.

(c) *Prohibited from applying for a license*. No person convicted of a violation of any statute specified in section 11(h) of the Export Administration Act, as amended, at the discretion of the Secretary of Commerce, may apply for any license for a period up to 10 years from the date of the conviction. See § 766.25 of the EAR.

(d) *Prior action on a shipment*. If you have obtained a license without disclosure of the facts described in this section, the license will be deemed to have been obtained without disclosure of all facts material to the granting of the license and the license so obtained will be deemed void. See part 764 of the EAR for other sanctions that may result in the event a violation occurs.

(1) *Licenses for items subject to detention or seizure*. If you submit a license application for items that you know have been detained or seized by the Office of Export Enforcement or by the U.S. Customs Service, you must disclose this fact to BIS when you submit your license application.

(2) *Licenses for items previously exported*. You may not submit a license application to BIS covering a shipment that is already laden aboard the exporting carrier, exported or reexported. If such export or reexport should not have been made without first securing a license authorizing the shipment, you must send a letter of explanation to the Office of Export Enforcement, U.S. Department of Commerce, 14th and Pennsylvania Avenue, N.W., H4520, Washington, D.C., 20230. The letter must state why a license was not obtained and disclose all facts concerning the shipment that would normally have been disclosed on the license application. You will be informed of any action and furnished any instructions by the Office of Export Enforcement.

(e) *Multiple shipments*. Your license application need not be limited to a single shipment, but may represent a reasonable estimate of items to be shipped throughout the validity of the license. Do not wait until the license you are using expires before submitting a new application. You may submit a new application prior to the expiration of your current license in order to ensure uninterrupted shipping.

(f) *Second application*. You may not submit a second license application covering the same proposed transaction while the first is pending action by BIS.

(g) *Resubmission*. If a license application is returned without action to you by BIS or your application represents a transaction previously denied by BIS, and you want to resubmit the license application, a new license application must be completed in accordance with the instructions contained in supplement no. 1 to part 748. Cite the Application Control Number on your original application in Block 24 on the new license application.

(h) *Emergency processing*. Applicants may request emergency processing of license applications by contacting the Outreach and Educational Services Division of the Office of Exporter Services by telephone on (202) 482–4811 or by facsimile on (202) 482–2927. Refer to the Application Control Number when making emergency processing requests. BIS will expedite its evaluation, and attempt to expedite the evaluations of other government agencies, of a license application when, in its sole judgement, the circumstances justify emergency processing. See § 750.7(g) of the EAR for the limit on the validity period of emergency licenses.

[61 FR 12812, Mar. 25, 1996, as amended at 65 FR 42569, July 10, 2000; 70 FR 8249, Feb. 18, 2005; 70 FR 22249, Apr. 29, 2005; 73 FR 49330, Aug. 21, 2008; 79 FR 32626, June 5, 2014; 80 FR 51730, Aug. 26, 2015]

§ 748.5 Parties to the transaction.

The following parties may be entered on the application. The definitions, which also appear in part 772 of the

EAR, are set out here for your convenience to assist you in filling out your application correctly.

(a) *Applicant*. The person who applies for an export or reexport license, and who has the authority of a principal party in interest to determine and control the export or reexport of items. See § 748.4(a) and definition of ''exporter'' in part 772 of the EAR.

(b) *Other party authorized to receive license*. The person authorized by the applicant to receive the license. If a person and address is listed in Block 15 of the application, the Bureau of Industry and Security will send the license to that person instead of the applicant. Designation of another party to receive the license does not alter the responsibilities of the applicant, licensee or exporter.

(c) *Purchaser*. The person abroad who has entered into the transaction to purchase an item for delivery to the ultimate consignee. In most cases, the purchaser is not a bank, forwarding agent, or intermediary. The purchaser and ultimate consignee may be the same entity.

(d) *Intermediate consignee*. The person that acts as an agent for a principal party in interest and takes possession of the items for the purpose of effecting delivery of the items to the ultimate consignee. The intermediate consignee may be a bank, forwarding agent, or other person who acts as an agent for a principal party in interest.

(e) *Ultimate consignee*. The principal party in interest located abroad who receives the exported or reexported items. The ultimate consignee is not a forwarding agent or other intermediary, but may be the end-user.

(f) *End-user*. The person abroad that receives and ultimately uses the exported or reexported items. The end-user is not a forwarding agent or intermediary, but may be the purchaser or ultimate consignee.

[65 FR 42569, July 10, 2000, as amended at 73 FR 49330, Aug. 21, 2008]

§ 748.6 General instructions for license applications.

(a) *Instructions*. (1) General instructions for filling out license applications are in supplement no. 1 to this part.

(2) License applications may require additional information due to the type of items requested in the application or the characteristics of the transaction. Special instructions for applications requiring such additional information are listed in § 748.8 and described fully in supplement no. 2 to this part.

(3) License applications may also require additional information for evaluation of the parties in the transaction. Special instructions for applications requiring such additional information are listed in §§ 748.9 through 748.13.

(b) *Application Control Number*. Each application has an application control number.The Application Control Number, consisting of a letter followed by six digits, is for use by BIS when processing applications, and by applicants when communicating with BIS concerning pending applications. This number is used for tracking purposes within the U.S. Government. The Application Control Number is not a license number.

(c) *Approval or denial in entirety*. License applications may be approved in whole or in part, denied in whole or in part, or returned without action. However, you may specifically request that your license application be considered as a whole and either approved or denied in its entirety.

(d) *Combining items on license applications*. Any items may be combined on a single application, however, if the items differ dramatically (e.g., computers and shotguns) the number of BIS offices to which a license application may be referred for review may increase significantly. Accordingly, it is recommended that you limit items on each license application to those that are similar and/or related.

(e) *Attachments to applications*. Documents required to be submitted with applications filed via SNAP–R must be submitted as PDF files using the procedures described in SNAP–R. Documents required to be submitted with paper applications must bear the application control number to which they relate and, if applicable, be stapled to the paper form. Where necessary, BIS may require you to submit additional information beyond that stated in the EAR

confirming or amplifying information contained in your license application.

(f) *Changes in facts*. Answers to all items on the license application will be deemed to be continuing representations of the existing facts or circumstances. Any material or substantive change in the terms of the order, or in the facts relating to the transaction, must be promptly reported to BIS, whether a license has been granted or the license application is still under consideration. If a license has been granted and such changes are not excepted in § 750.7(c) of the EAR, they must be reported immediately to BIS, even though shipments against the license may be partially or wholly completed, during the validity period of the license.

(g) *Request for extended license validity period*. An extended validity period will generally be granted if your transaction is related to a multi-year project, when production lead time will not permit export or reexport during the normal validity period or for other similar circumstances. A continuing requirement to supply spare or replacement parts will not normally justify an extended validity period. To request an extended validity period, include justification for your request in Block 24 on the application.

[61 FR 12812, Mar. 25, 1996, as amended at 73 FR 49330, Aug. 21, 2008; 80 FR 13217, Mar. 13, 2015]

§ 748.7 Registering for electronic submission of license applications and related documents.

(a) *Scope*. This section describes the procedures for registering to submit electronic documents to BIS. The procedures in this section apply to submission of export and reexport license applications (other than Special Iraq Reconstruction Licenses), classification requests, and License Exception AGR notifications.

(b) *Registration and use of BIS's Simplified Network Applications System—Redesign (SNAP–R)*. Parties wishing to submit electronically must log on to *https://snapr.bis.doc.gov/registration* to register. Upon initial registration, the party (the filing entity) will have to supply the name of the entity that will be submitting documents electronically and its address and the name, telephone number, facsimile number and e-mail address of the person who will act as account administrator. The person will be required to certify that the information so supplied is correct and complete, that the person has authority to register the entity that will be making electronic submissions and that the person has authority to act as an account administrator for that entity.

(c) *Role of account administrator*. The account administrator is able to add and remove individual users to and from the account of the filing entity for which it is the account administrator. The account administrator can also make individual users account administrators and can terminate an individual user's administrator status. The account administrator can deactivate the account of an individual user and reactivate the account of a previously deactivated individual user. The account administrator can update the filing entity's identifying information such as name and address and any individual user's identifying information such as name, telephone number, facsimile number and e-mail address. The account administrator can reset individual users' passwords.

(d) *Role of individual users*. An individual user may submit to BIS export and reexport license applications (other than Special Iraq Reconstruction Licenses), classification requests, and License Exception AGR notifications.

(e) *Effect of submission to BIS*. BIS may refuse to accept an electronic submission if it has reason to believe that the individual user making the submission lacks authority to do so. However, BIS is not obligated to conduct any checks to determine whether an individual user has the necessary authority and will generally treat users as acting within their authority. Acting through their account administrators, parties have the ability to remove an individual user when that individual user is no longer authorized to make submissions on behalf of that party to BIS and should do so promptly.

(f) *Requirement to keep identifying information accurate and current*—(1) *Filing entities*. Filing entities must,

through their account administrators, update their identifying information such as name, address and telephone number in their SNAP–R account as necessary to keep that information accurate and current.

(2) *Individual users*. Individual users must, through their account administrators, update their identifying information such as name, telephone number, facsimile number and e-mail address in their SNAP–R accounts as necessary to keep that information accurate and current.

[76 FR 7105, Feb. 9, 2011, as amended at 80 FR 51730, Aug. 26, 2015; 81 FR 64676, Sept. 20, 2016]

EFFECTIVE DATE NOTE: At 81 FR 87426, Dec. 5, 2016, §748.7 was amended by removing the parenthetical phrase ''(other than Special Iraq Reconstruction Licenses)'' from paragraphs (a) and (d), effective Jan. 4, 2017.

§ 748.8 Unique application and submission requirements.

In addition to the instructions contained in supplement no. 1 to this part 748, you must also ensure that the additional requirements for certain items or types of transactions described in this section are addressed in your license application. See supplement no. 2 to this part 748 if your application involves:

(a) Chemicals, medicinals, and pharmaceuticals.

(b) Communications intercepting devices.

(c) Digital computers, telecommunications, and related equipment.

(d) [Reserved]

(e) Intransit shipments through the United States.

(f) Intransit shipments outside of the United States.

(g) Nuclear Nonproliferation items and end-uses.

(h) Numerical control devices, motion control boards, numerically controlled machine tools, dimensional inspection machines, direct numerical control systems, specially designed assemblies and specially designed software.

(i) Parts, components, and materials incorporated abroad into foreign-made products.

(j) Ship stores, plane stores, supplies, and equipment.

(k) Regional stability controlled items.

(l) Reexports.

(m) Robots.

(n) Short Supply controlled items.

(o) Technology.

(p) Temporary exports or reexports.

(q) Exports of chemicals controlled for CW reasons by ECCN 1C350 to countries not listed in supplement no. 2 to part 745 of the EAR.

(r) Encryption classification requests.

(s)–(t) [Reserved]

(u) Aircraft and vessels on temporary sojourn.

(v) In-country transfers.

(w) License Exception STA eligibility requests for ''600 series'' end items.

(x) License application for a transaction involving a 9x515 and ''600 series'' item that is equivalent to a transaction previously approved under an ITAR license or other approval.

(y) Satellite exports.

[61 FR 12812, Mar. 25, 1996, as amended at 64 FR 27146, May 18, 1999; 69 FR 64489, Nov. 5, 2004; 70 FR 8249, Feb. 18, 2005; 70 FR 54629, Sept. 16, 2005; 75 FR 36500, June 25, 2010; 78 FR 22724, Apr. 16, 2013; 79 FR 27436, May 13, 2014; 80 FR 2290, Jan. 16, 2015; 81 FR 64676, Sept. 20, 2016]

§ 748.9 Support documents for evaluation of foreign parties in license applications.

(a) *Scope*. License applicants may be required to obtain support documents concerning the foreign parties and the disposition of the items intended for export, reexport, or transfer (in-country). Some support documents are issued by foreign governments, while other support documents are signed and issued by the purchaser and/or ultimate consignee. For support documents issued by foreign governments, any foreign legal restrictions or obligations exercised by the government issuing the support document are in addition to the conditions and restrictions placed on the transaction by BIS. However, the laws and regulations of the United States are in no way modified, changed, or superseded by the issuance of a support document by a foreign government.

(b) *Requirements to obtain support documents for license applications*. Unless an

exception in paragraph (c) of this section applies, a support document is required for certain license applications for the People's Republic of China (PRC) (see §§748.10 and 748.11(a)(2)), ''600 Series Major Defense Equipment'' (see §748.11), and firearms and related commodities to member countries of the Organization of American States (see §748.12).

NOTE 1 TO PARAGRAPH (b): On a case-by-case basis, BIS may require license applicants to obtain a support document for any license application.

NOTE 2 TO PARAGRAPH (b): For End-Use Certificate requirements under the Chemical Weapons Convention, see §745.2 of the EAR.

(c) *Exceptions to requirements to obtain support documents.* (1) Even if a support document requirement is imposed by paragraph (b) of this section, no support document is required for any of the following situations:

(i) The ultimate consignee or purchaser is an ''Agency of the United States Government'' (see §740.11(b)(1) for definition). If either the ultimate consignee or purchaser is not an agency of the United States government, however, a support document may still be required from the non-U.S. governmental party;

(ii) The ultimate consignee or purchaser is a foreign government(s) or foreign government agency(ies), other than the government of the People's Republic of China. To determine whether the parties in a transaction meet the definition of ''foreign government agency,'' refer to the definition contained in part 772 of the EAR. If either the ultimate consignee or purchaser is not a foreign government or foreign government agency, however, a support document may still be required from the nongovernmental party;

(iii) The license application is filed by, or on behalf of, a relief agency registered with the Advisory Committee on Voluntary Foreign Aid, U.S. Agency for International Development, for export to a member agency in the foreign country;

(iv) The license application is submitted for commodities for temporary exhibit, demonstration, or testing purposes;

(v) The license application is submitted for commodities controlled for short supply reasons (see part 754 of the EAR);

(vi) [Reserved]

(vii) The license application is submitted for software or technology; or

(viii) The license application is submitted for encryption commodities controlled under ECCN 5A002, 5A004 or 5B002.

(2) BIS will consider granting an exception to the requirement for obtaining a support document where the requirements cannot be met due to circumstances beyond the applicant's control. An exception will not be granted contrary to the objectives of the U.S. export control laws and regulations. Refer to §748.13 of this part for specific instructions on procedures for requesting an exception.

(d) *Content of support documents.* In addition to specific requirements described for each support document in §§748.10, 748.11, and 748.12, the use and submission of support documents must comply with the following requirements.

(1) *English translation.* All abbreviations, coded terms, or other expressions on support documents having special significance in the trade or to the parties to the transaction must be explained on an attachment to the document. Documents in a language other than English must be accompanied by an attachment giving an accurate English translation, either made by a translating service or certified by the applicant to be correct. Explanations or translations should be provided on a separate piece of paper, and not entered on the support documents themselves.

(2) *Responsibility for full disclosure.* (i) The license application covering the transaction discloses all facts pertaining to the transaction. Information contained in a support document obtained after submission of a license application and not submitted to BIS as part of the application cannot be construed as extending or expanding or otherwise modifying the specific information supplied in a license application or license issued by BIS. The authorizations contained in the resulting license are not extended by information contained in the support document regarding reexport from the

country of destination, transfer (in-country), or any other facts relative to the transaction that are not reported on the license application.

(ii) Misrepresentations, either through failure to disclose facts, concealing a material fact, or furnishing false information, may subject responsible parties to administrative or criminal action by BIS.

(iii) In obtaining the required support document, the applicant is not relieved of the responsibility for full disclosure of any other information concerning the ultimate destination, end use, or end user of which the applicant knows, even if inconsistent with the representations made in the applicable support document. The applicant is responsible for promptly notifying BIS of any change in the facts contained in the support document that comes to the applicant's attention.

(e) *Procedures for using support document with license application*—(1) *Timing for obtaining support document*. When a support document is required for a license application in §§ 748.10, 748.11, and 748.12, license applicants may submit the application prior to receipt of a copy of the support document, unless BIS informs the applicant that the support document must be submitted with the application. However, if the license is granted, items authorized on the license may not be exported, reexported, or transferred (in-country) until the license holder obtains a copy of the support document.

(2) *Information necessary for license application*. When a support document is required for a license application, applicants should mark the appropriate box in Block 7, regardless of whether a copy of the support document is on file with the applicant at the time of submission.

(f) *Recordkeeping provisions*. License applicants must retain on file the original or a copy of any support document issued in support of a license application submitted to BIS. All recordkeeping provisions in part 762 of the EAR apply to this requirement.

(g) *Effect on license application review*. BIS reserves the right in all respects to determine to what extent any license will be issued covering items for which a support document has been issued. If a support document was issued by a foreign government, BIS will not seek or undertake to give consideration to recommendations from the foreign government as to the action to be taken on a license application. A support document will be only one of the factors upon which BIS will base its licensing action, since end uses and other considerations are important factors in the decision making process.

(h) *Grace period for complying with requirements following regulatory change*. (1) Whenever the requirement for a PRC End-User Statement, Statement by Ultimate Consignee or Purchaser, or Firearms Convention Import Certificate is imposed or extended by a change in the regulations, the license application need not conform to the new support documentation requirements for a period of 45 days after the effective date of the regulatory change published in the FEDERAL REGISTER.

(2) License applications filed during the 45-day grace period may require the submission of evidence available to the applicant that will support representations concerning the ultimate consignee, ultimate destination, and end use, such as copies of the order, letters of credit, correspondence between the applicant and ultimate consignee, or other documents received from the ultimate consignee. If such evidence is required, applicants must also identify the regulatory change (including its effective date) that justifies exercise of the 45-day grace period.

[80 FR 13217, Mar. 13, 2015, as amended at 80 FR 51730, Aug. 26, 2015; 81 FR 64676, Sept. 20, 2016]

§ 748.10 People's Republic of China (PRC) End-User Statement.

(a) *Requirement to obtain document*. Unless the provisions of § 748.9(c) or § 748.11(a)(2) apply, a PRC End-User Statement is required for license applications including any of the following commodities destined for the PRC:

(1) Cameras classified under ECCN 6A003 requiring a license to the PRC for any reason, and the value of such cameras exceeds $5,000;

(2) Computers requiring a license to the PRC for any reason, regardless of the value of the computers; or

(3) Any commodity(ies) requiring a license to the PRC for any reason on the Commerce Control List, and the total value of such commodity(ies) requiring a license exceeds $50,000.

NOTE 1 TO PARAGRAPH (a): If an order meets the commodity(ies) and value requirements listed above, then a PRC End-User Statement is required. An order may not be split into multiple license applications solely to avoid a requirement to obtain a PRC End-User Statement.

NOTE 2 TO PARAGRAPH (a): If an order includes both items that do require a license to the PRC and items that do not require a license to the PRC, the value of the latter items should not be factored into the value thresholds described above. Also, if a license application includes 6A003 cameras and other items requiring a license to the PRC, then the value of the 6A003 cameras should be factored into the value threshold described in paragraph (a)(3).

NOTE 3 TO PARAGRAPH (a): See § 748.11(a)(2) for permissive use of a Statement by Ultimate Consignee and Purchaser in place of a PRC End-User Statement.

NOTE 4 TO PARAGRAPH (a): On a case-by-case basis, BIS may require license applicants to obtain a PRC End-User Statement for a license application that would not otherwise require a PRC End-User Statement under the requirements of paragraph (a) of this section.

(b) *Obtaining the document.* (1) If a PRC End-User Statement is required for any reason under paragraph (a) of this section, then applicants must request that the importer obtain a PRC End-User Statement for all items on a license application that require a license to the PRC for any reason listed on the CCL.

(2) PRC End-User Statements are issued and administered by the Ministry of Commerce; Department of Mechanic, Electronic and High Technology Industries; Export Control Division I; Chang An Jie No. 2; Beijing 100731 China; Phone: (86)(10) 6519 7366 or 6519 7390; Fax: (86)(10) 6519 7543; *http://zzyhzm.mofcom.gov.cn/*. See the BIS Web site (*www.bis.doc.gov*) for the current contact information.

(c) *Content of the document.* (1) The license applicant's name must appear on the PRC End-User Statement submitted to BIS as the applicant, supplier, or order party.

(2) License applicants must ensure that the following information is included on the PRC End-User Statement signed by an official of the Department of Mechanic, Electronic and High Technology Industries, Export Control Division I, of the PRC Ministry of Commerce (MOFCOM), with MOFCOM's seal affixed to it:

(i) Title of contract and contract number (optional);

(ii) Names of importer and exporter;

(iii) End user and end use;

(iv) Description of the commodity, quantity and dollar value; and

(v) Signature of the importer and date.

NOTE TO PARAGRAPH (c): The license applicant should furnish the consignee with the commodity description contained in the CCL to be used in applying for the PRC End-User Statement. It is also advisable to furnish a manufacturer's catalog, brochure, or technical specifications if the commodity is new.

(d) *Procedures for using document with license application*—(1) *Using a PRC End-User Statement for multiple applications.* A PRC End-User Statement may cover more than one purchase order and more than one item. Where the Statement includes items for which more than one license application will be submitted, the applicant should ensure that the total quantities on the license application(s) do not exceed the total quantities shown on the PRC End-User Statement.

(2) *Alterations.* After a PRC End-User Statement is issued by the Government of the People's Republic of China, no corrections, additions, or alterations may be made on the certificate by any person. Any necessary corrections, additions, or alterations should be noted by the applicant in a separate statement on file with the applicant.

(3) *Validity period.* A PRC End-User Statement is valid until the quantities of items identified on the Statement have been shipped.

[80 FR 13218, Mar. 13, 2015]

§ 748.11 Statement by Ultimate Consignee and Purchaser.

(a) *Requirement to obtain document*—(1) *General requirement for all countries excluding the People's Republic of China (PRC).* Unless an exception in § 748.9(c) or paragraph (a)(3) of this section applies, a Statement by Ultimate Consignee and Purchaser is required if the license application includes ''600 Series

Major Defense Equipment'' (600 series MDE) requiring a license for any reason on the Commerce Control List and such items are destined for a country other than the PRC.

(2) *Permissive substitute of Statement by Ultimate Consignee and Purchaser in place of PRC End-User Statement.* The requirement to obtain a support document for license applications involving the PRC is generally determined by § 748.10(a) of the EAR. However, a Statement by Ultimate Consignee and Purchaser may be substituted in place of a PRC End-User Statement when the commodities to be exported (*i.e.*, replacement parts and components) are valued at $75,000 or less and are for servicing previously exported commodities.

(3) *Exception to general requirement.* The general requirement described in paragraph (a)(1) of this section does not apply if the applicant is the same person as the ultimate consignee, provided the required statements are contained in Block 24 on the license application. This exemption does not apply, however, where the applicant and consignee are separate entities, such as parent and subsidiary, or affiliated or associated firms.

NOTE 1 TO PARAGRAPH (a): An order may not be split into multiple license applications solely to avoid a requirement to obtain a Statement by Ultimate Consignee and Purchaser.

NOTE 2 TO PARAGRAPH (a): On a case-by-case basis, BIS may require license applicants to obtain a Statement by Ultimate Consignee and Purchaser for a license application that would not otherwise require a Statement by Ultimate Consignee and Purchaser under the requirements of paragraph (a) of this section.

(b) *Obtaining the document.* (1) The ultimate consignee and purchaser must complete either a statement on company letterhead, or Form BIS–711, Statement by Ultimate Consignee and Purchaser, as described in paragraph (c) of this section. Unless otherwise specified, any reference in this section to ''Statement by Ultimate Consignee and Purchaser'' applies to both the statement on company letterhead and to Form BIS–711.

(2) If the consignee and purchaser elect to complete the statement on letterhead and both the ultimate consignee and purchaser are the same entity, only one statement is necessary.

(3) If the ultimate consignee and purchaser are separate entities, separate statements must be prepared and signed.

(4) If the ultimate consignee and purchaser elect to complete Form BIS–711, only one Form BIS–711 (containing the signatures of the ultimate consignee and purchaser) need be completed.

(5) Whether the ultimate consignee and purchaser sign a written statement or complete Form BIS–711, the following constraints apply:

(i) Responsible officials representing the ultimate consignee or purchaser must sign the statement. ''Responsible official'' is defined as someone with personal knowledge of the information included in the statement, and authority to bind the ultimate consignee or purchaser for whom they sign, and who has the power and authority to control the use and disposition of the licensed items.

(ii) The authority to sign the statement may not be delegated to any person (agent, employee, or other) whose authority to sign is not inherent in his or her official position with the ultimate consignee or purchaser for whom he or she signs. The signing official may be located in the United States or in a foreign country. The official title of the person signing the statement must also be included.

(iii) The consignee and/or purchaser must submit information that is true and correct to the best of their knowledge and must promptly send a new statement to the applicant if changes in the facts or intentions contained in their statement(s) occur after the statement(s) have been forwarded to the applicant. Once a statement has been signed, no corrections, additions, or alterations may be made. If a signed statement is incomplete or incorrect in any respect, a new statement must be prepared, signed and forwarded to the applicant.

(c) *Content of the document.* See supplement no. 3 to this part for the information necessary to complete a statement on company letterhead or on Form BIS–711.

(d) *Procedures for using document with license application*—(1) *Validity period.*

(i) If a Statement by Ultimate Consignee and Purchaser is obtained prior to submission of the license application and the Statement is required to support one or more license applications, an applicant must submit the first license application within one year from the date the statement was signed.

(ii) All subsequent license applications supported by the same Statement by Ultimate Consignee and Purchaser must be submitted within four years of signature by the consignee or purchaser, whichever was last.

(2) [Reserved]

[80 FR 13219, Mar. 13, 2015]

§ 748.12 Firearms Convention (FC) Import Certificate.

(a) *Requirement to obtain document.* Unless an exception in § 748.9(c) applies, an FC Import Certificate is required for license applications for firearms and related commodities, regardless of value, that are destined for member countries of the Organization of American States (OAS). This requirement is consistent with the OAS Model Regulations described in § 742.17 of the EAR.

(1) *Items subject to requirement.* Firearms and related commodities are those commodities controlled for ''FC Column 1'' reasons under ECCNs 0A984, 0A986, or 0A987.

(2) *Countries subject to requirement.* (i) OAS member countries include: Antigua and Barbuda, Argentina, Bahamas, Barbados, Belize, Bolivia, Brazil, Canada, Chile, Colombia, Costa Rica, Dominica, Dominican Republic, Ecuador, El Salvador, Grenada, Guatemala, Guyana, Haiti, Honduras, Jamaica, Mexico, Nicaragua, Panama, Paraguay, Peru, Saint Kitts and Nevis, Saint Lucia, Saint Vincent and the Grenadines, Suriname, Trinidad and Tobago, Uruguay, and Venezuela.

(ii) [Reserved]

(3) *Equivalent official document in place of FC Import Certificate.* For those OAS member countries that have not yet established or implemented an FC Import Certificate procedure, BIS will accept an equivalent official document (*e.g.*, import license or letter of authorization) issued by the government of the importing country as supporting documentation for the export of firearms.

(b) *Obtaining the document.* (1) Applicants must request that the importer (*e.g.*, ultimate consignee or purchaser) obtain the FC Import Certificate or an equivalent official document from the government of the importing country, and that it be issued covering the quantities and types of firearms and related items that the applicant intends to export. (See supplement no. 6 to this part for a list of the OAS member countries' authorities administering the FC Import Certificate System.) Upon receipt of the FC Import Certificate, its official equivalent, or a copy, the importer must provide the original or a certified copy of the FC Import Certificate or the original or a certified copy of the equivalent official document to the license applicant.

(2) If the government of the importing country will not issue an FC Import Certificate or its official equivalent, the applicant must supply the information described in paragraphs (c)(1) and (c)(6) through (c)(8) of this section on company letterhead.

(c) *Content of the document.* The FC Import Certificate or its official equivalent must contain the following information:

(1) Applicant's name and address. The applicant may be either the exporter, supplier, or order party.

(2) FC Import Certificate Identifier/Number.

(3) Name of the country issuing the certificate or unique country code.

(4) Date the FC Import Certificate was issued, in international date format (*e.g.*, 24/12/12 for 24 December 2012, or 3/1/99 for 3 January 1999).

(5) Name of the agency issuing the certificate, address, telephone and facsimile numbers, signing officer name, and signature.

(6) Name of the importer, address, telephone and facsimile numbers, country of residence, representative's name if commercial or government body, citizenship, and signature.

(7) Name of the end user(s), if known and different from the importer, address, telephone and facsimile numbers, country of residence, representative's name if commercial (authorized distributor or reseller) or government

body, citizenship, and signature. Note that BIS does not require the identification of each end user when the firearms and related commodities will be resold by a distributor or reseller if unknown at the time of export.

(8) Description of the commodities approved for import including a technical description and total quantity of firearms, parts and components, ammunition and parts.

NOTE TO PARAGRAPH (c)(8): You must furnish the consignee with a detailed technical description of each commodity to be given to the government for its use in issuing the FC Import Certificate. For example, for shotguns, provide the type, barrel length, overall length, number of shots, the manufacturer's name, the country of manufacture, and the serial number for each shotgun. For ammunition, provide the caliber, velocity and force, type of bullet, manufacturer's name and country of manufacture.

(9) Expiration date of the FC Import Certificate in international date format (*e.g.*, 24/12/12) or the date the items must be imported, whichever is earlier.

(10) Name of the country of export (*i.e.*, United States).

(11) Additional information. Certain countries may require the tariff classification number, by class, under the Brussels Convention (Harmonized Tariff Code) or the specific technical description of a commodity. For example, shotguns may need to be described in barrel length, overall length, number of shots, manufacturer's name and country of manufacture. The technical description is not the Export Control Classification Number (ECCN).

(d) *Procedures for using document with license application*—(1) *Information necessary for license application*. The license application must include the same commodities as those listed on the FC Import Certificate or the equivalent official document.

(2) *Alterations*. After an FC Import Certificate or equivalent official document is used to support the issuance of a license, no corrections, additions, or alterations may be made on the FC Import Certificate by any person. Any necessary corrections, additions, or alterations should be noted by the applicant in a separate statement on file with the applicant.

(3) *Validity period*. FC Import Certificates or equivalent official documents issued by an OAS member country will be valid until the expiration date on the Certificate or for a period of four years, whichever is shorter.

[80 FR 13219, Mar. 13, 2015]

§ 748.13 Granting of exceptions to the support documentation requirements.

(a) *Overview*. A request for an exception to obtaining the required support documentation will be considered by BIS; however, an exception will not be granted contrary to the objectives of the U.S. export control program. A request for exception may involve either a single transaction or, where the reason necessitating the request is continuing in nature, multiple transactions. If satisfied by the evidence presented, BIS may waive the support document requirement and accept the license application for processing.

(b) *Procedure for requesting an exception*. The request for an exception must be submitted with the license application to which the request relates, and the reason(s) for requesting the exception must be described in Block 24 or referred to in Block 24. Where the request relates to more than one license application, it should be submitted with the first license application and referred to in Block 24 on any subsequent license application.

(c) *Action by BIS*—(1) *Single transaction request*. Where a single transaction is involved, BIS will act on the request for exception at the same time as the license application with which the request is submitted. In those instances where the related license application is approved, the issuance of the license will serve as an automatic notice to the applicant that the exception was approved. If any restrictions are placed on granting of the exception, these will appear on the approval. If the request for exception is not approved, BIS will advise the applicant.

(2) *Multiple transactions request*. Where multiple transactions are involved, BIS will advise the applicant of the action taken on the exception request. The response from BIS will contain any conditions or restrictions that BIS finds necessary to impose (including an exception termination date if

appropriate). In addition, a written acceptance of these conditions or restrictions may be required from the parties to the transaction.

[80 FR 13220, Mar. 13, 2015]

§ 748.14 [Reserved]

§ 748.15 Authorization Validated End-User (VEU).

Authorization Validated End-User (VEU) permits the export, reexport, and transfer to validated end-users of any eligible items that will be used in a specific eligible destination. Validated end-users are those who have been approved in advance pursuant to the requirements of this section. To be eligible for authorization VEU, exporters, reexporters, and potential validated end-users must adhere to the conditions and restrictions set forth in paragraphs (a) through (f) of this section. If a request for VEU authorization for a particular end-user is not granted, no new license requirement is triggered. In addition, such a result does not render the end-user ineligible for license approvals from BIS.

(a) *Eligible end-users*. The only end-users to whom eligible items may be exported, reexported, or transferred under VEU are those validated end-users identified in supplement no. 7 to part 748, according to the provisions in this section and those set forth in supplement nos. 8 and 9 to this part that have been granted VEU status by the End-User Review Committee (ERC) according to the process set forth in supplement no. 9 to this part.

(1) Requests for authorization must be submitted in the form of an advisory opinion request, as described in § 748.3(c)(2), and should include a list of items (items for purposes of authorization VEU include commodities, software and technology, except as excluded by paragraph (c) of this section), identified by ECCN, that exporters or reexporters intend to export, reexport or transfer to an eligible end-user, once approved. To ensure a thorough review, requests for VEU authorization must include the information described in supplement no. 8 to this part. Requests for authorization will be accepted from exporters, reexporters or end-users. Submit the request to: The Office of Exporter Services, Bureau of Industry and Security, U.S. Department of Commerce, 14th Street and Pennsylvania Avenue, NW., Room 2099B, Washington, DC 20230. Mark the package ''Request for Authorization Validated End-User.''

(2) In evaluating an end-user for eligibility under authorization VEU, the ERC will consider a range of information, including such factors as: the entity's record of exclusive engagement in civil end-use activities; the entity's compliance with U.S. export controls; the need for an on-site review prior to approval; the entity's capability of complying with the requirements of authorization VEU; the entity's agreement to on-site reviews to ensure adherence to the conditions of the VEU authorization by representatives of the U.S. Government; and the entity's relationships with U.S. and foreign companies. In addition, when evaluating the eligibility of an end-user, the ERC will consider the status of export controls and the support and adherence to multilateral export control regimes of the government of the eligible destination.

(3) The VEU authorization is subject to revision, suspension or revocation entirely or in part.

(4) Information submitted in a VEU request is deemed to constitute continuing representations of existing facts or circumstances. Any material or substantive change relating to the authorization must be promptly reported to BIS, whether VEU authorization has been granted or is still under consideration.

(b) *Eligible destinations*. Authorization VEU may be used for the following destinations:

(1) The People's Republic of China.

(2) India.

(c) *Item restrictions*. Items controlled under the EAR for missile technology (MT) and crime control (CC) reasons may not be exported or reexported under this authorization.

(d) *End-use restrictions*. Items obtained under authorization VEU may be used only for civil end-uses and may not be used for any activities described in part 744 of the EAR. Exports, reexports, or transfers made under authorization VEU may only be made to an end-user listed in supplement no. 7 to this part if the items will be consigned

to and for use by the validated end-user. Eligible end-users who obtain items under VEU may only:

(1) Use such items at the end-user's own facility located in an eligible destination or at a facility located in an eligible destination over which the end-user demonstrates effective control;

(2) Consume such items during use; or

(3) Transfer or reexport such items only as authorized by BIS.

NOTE TO PARAGRAPH (d): Authorizations set forth in supplement no. 7 to this part are country-specific. Authorization as a validated end-user for one country specified in paragraph (b) of this section does not constitute authorization as a validated end-user for any other country specified in that paragraph.

(e) *Certification and recordkeeping.* Prior to an initial export or reexport to a validated end-user under authorization VEU, exporters or reexporters must obtain certifications from the validated end-user regarding end-use and compliance with VEU requirements. Such certifications must include the contents set forth in supplement no. 8 to this part. Certifications and all records relating to VEU must be retained by exporters or reexporters in accordance with the recordkeeping requirements set forth in part 762 of the EAR.

(f) *Reporting and review requirements*—(1)(i) *Reports.* Reexporters who make use of authorization VEU are required to submit annual reports to BIS. These reports must include, for each validated end-user to whom the exporter or reexporter exported or reexported eligible items:

(A) The name and address of each validated end-user to whom eligible items were reexported;

(B) The eligible destination to which the items were reexported;

(C) The quantity of such items;

(D) The value of such items; and

(E) The ECCN(s) of such items.

(ii) Reports are due by February 15 of each year, and must cover the period of January 1 through December 31 of the prior year. Reports must be sent to: Office of Exporter Services, Bureau of Industry and Security, U.S. Department of Commerce, 14th Street and Constitution Avenue, NW., Room 2099B, Washington, DC 20230. Mark the package ''Authorization Validated End-User Reports''.

(2) *Reviews.* Records related to activities covered by authorization VEU that are maintained by exporters, reexporters, and validated end-users who make use of authorization VEU will be reviewed on a periodic basis. Upon request by BIS, exporters, reexporters, and validated end-users must allow review of records, including on-site reviews covering the information set forth in paragraphs (e) and (f)(1) of this section.

(g) *Notification requirement.* Exporters and reexporters shipping under Authorization VEU and persons transferring (in-country) under Authorization VEU are required to provide the VEUs to which they are shipping or transferring notice of the shipment or transfer. Such notification must be conveyed to the VEU in writing and must include a list of the VEU-authorized contents of the shipment or transfer and a list of the ECCNs under which the VEU-authorized items in the shipment or transfer are classified, as well as a statement that the items are being, will be, or were shipped or transferred pursuant to Authorization VEU. Notification of the export, reexport or transfer (in-country) to the VEU must be made within a timeframe agreed to in writing by the VEU and the person exporting, reexporting or transferring (in-country). The VEU and the person exporting, reexporting or transferring (in-country) must agree to the notification timeframe prior to the initial shipment or transfer under Authorization VEU. Depending on the agreement between the VEU and the person exporting, reexporting or transferring (in-country), a notification may be for individual shipments or for multiple shipments. Exporters, reexporters and VEUs are required to maintain the notifications they send or receive in accordance with their recordkeeping requirements.

(h) *Termination of Conditions on VEU Authorizations.* VEUs that are subject to item-specific conditions and have received items subject to such conditions under Authorization VEU are no longer bound by the conditions associated

with the items if the items no longer require a license for export or reexport to the PRC or India, as applicable, or become eligible for shipment under a license exception to the destination. Items that become eligible for a License Exception are subject to the terms and conditions of the applicable License Exception and the restrictions in §740.2 of the EAR. Items that become eligible for export without a license and that remain subject to the EAR may only be exported, reexported, transferred (in-country) or disposed of in accordance with the requirements of the EAR. Termination of VEU conditions does not relieve a validated end-user of its responsibility for violations that occurred prior to the availability of a license exception or prior to the removal of license requirements.

(i) *Records*. Records of items that were shipped under Authorization VEU prior to the removal of a license requirement or the availability of a license exception remain subject to the review requirements of paragraph (f)(2) of this section on and after the date that the license requirement was removed or the license exception became applicable.

[72 FR 33660, June 19, 2007, as amended at 72 FR 56011, Oct. 2, 2007; 73 FR 37, Jan. 2, 2008; 77 FR 75013, Dec. 19, 2012; 78 FR 13470, Feb. 28, 2013]

SUPPLEMENT NO. 1 TO PART 748—BIS-748P, BIS-748P-A; ITEM APPENDIX, AND BIS-748P-B; END-USER APPENDIX; MULTIPURPOSE APPLICATION INSTRUCTIONS

All information must be legibly typed within the lines for each Block or Box, except where a signature is required. Enter only one typed line of text per Block or line. Where there is a choice of entering telephone numbers or facsimile numbers, and you wish to provide a facsimile number instead of a telephone number, identify the facsimile number with the letter ''F'' immediately after the number (e.g., 022–358–0–123456F). If you are completing this form to request classification of your item, you must complete Blocks 1 through 5, 14, 22 (a), (b), (c), (d), and (i), 24, and 25 only.

Block 1: Contact Person. Enter the name of the person who can answer questions concerning the application.

Block 2: Telephone. Enter the telephone number of the person who can answer questions concerning the application.

Block 3: Facsimile. Enter the facsimile number, if available, of the person who can answer questions concerning the application.

Block 4: Date of Application. Enter the current date.

Block 5: Type of Application. *Export*. If the items are located within the United States, and you wish to export those items, mark the Box labeled ''Export'' with an (X). Reexport. If the items are located outside the United States, mark the Box labeled ''Reexport'' with an (X).

Classification. If you are requesting BIS to classify your item against the Commerce Control List (CCL), mark the Box labeled ''Classification Request'' with an (X). If you are submitting a License Exception STA eligibility request pursuant to §740.20(g), mark the box labeled ''Export'' with an (X) and then proceed to Block 6 of this supplement for instructions specific to such requests.

Block 6: Documents submitted with Application. Review the documentation you are required to submit with your application in accordance with the provisions of part 748 of the EAR, and mark all applicable Boxes with an (X).

Mark the Box ''Foreign Availability'' with an (X) if you are submitting an assertion of foreign availability with your license application. See part 768 of the EAR for instructions on foreign availability submissions.

If you are *not* making a foreign availability assertion under part 768 of the EAR, you may still mark the box ''Foreign Availability'' with an (X), if you are submitting an assertion of foreign availability with your license application. Foreign availability assertions covered under part 768 are limited to items controlled for national security reasons. However, if an applicant intends to include foreign availability support material for items not controlled for national security reasons, applicants are permitted to do this as part of the license application by marking the box ''Foreign Availability'' with an (X) and including the foreign availability information, along with the support material for the license application. Applicants must clearly label this support material as ''Foreign availability information—outside the scope of part 768''. Although this information is outside the scope of part 768, applicants should still use supplement no. 1 to part 768 for general guidance regarding what types of information may be suitable for demonstrating foreign availability. The purpose of submitting this type of foreign availability information will be to make the U.S. Government more aware of the foreign availability of items not controlled for national security reasons.

Mark the ''Tech. Specs.'' box with an (X) if you are submitting descriptive literature, brochures, technical specifications, etc. with your application. Mark the ''Other'' box with an (X) and insert the phrase ''STA request''

for the description of the support document to submit a request for License Exception STA eligibility pursuant to §740.20(g). (See supplement no. 2 to part 748 under paragraph (w) for unique application and submission requirements for License Exception STA eligibility requests described under this Block 6.)

Block 7: Documents on File with Applicant. Certify that you have retained on file all applicable documents as required by the provisions of part 748 by placing an (X) in the appropriate Box(es).

Block 8: [Reserved]

Block 9: Special Purpose. Complete this block for certain items or types of transactions only if specifically required in supplement no. 2 to this part.

Block 10: Resubmission Application Control Number. If your original application was returned without action (RWA), provide the Application Control Number. This does not apply to applications returned without being registered.

Block 11: Replacement License Number. If you have received a license for identical items to the same ultimate consignee, but would like to make a modification that is not excepted in §750.7(c) of the EAR, to the license as originally approved, enter the original license number and complete Blocks 12 through 25, where applicable. Include a statement in Block 24 regarding what changes you wish to make to the original license.

Block 12: Items Previously Exported. This Block should be completed only if you have marked the ''Reexport'' box in Block 5. Enter the license number, License Exception symbol (for exports under General Licenses, enter the appropriate General License symbol), or other authorization under which the items were originally exported, if known.

Block 13: Import/End-User Certificate. Enter the name of the country and number of the Import or End User Certificate obtained in accordance with provisions of this part.

Block 14: Applicant. Enter the applicant's name, street address, city, state/country, and postal code. Provide a complete street address. P.O. Boxes are not acceptable. Refer to §748.5(a) of this part for a definition of ''applicant''. If you have marked ''Export'' in Block 5, you must include your company's Employer Identification Number unless you are filing as an individual or as an agent on behalf of the exporter. The Employee Identification Number is assigned by the Internal Revenue Service for tax identification purposes. Accordingly, you should consult your company's financial officer or accounting division to obtain this number.

Block 15: Other Party Authorized to Receive License. If you would like BIS to transmit the approved license to another party designated by you, complete all information in this Block, including name, street address, city, country, postal code and telephone number. Leave this space blank if the license is to be sent to the applicant. Designation of another party to receive the license does not alter the responsibilities of the applicant.

Block 16: Purchaser. Enter the purchaser's complete name, street address, city, country, postal code, and telephone or facsimile number. Refer to §748.5(c) of this part for a definition of ''purchaser''. If the purchaser is also the ultimate consignee, enter the complete name and address. If your proposed transaction does not involve a separate purchaser, leave Block 16 blank.

Block 17: Intermediate consignee. Enter the intermediate consignee's complete name, street address, city, country, postal code, and telephone or facsimile number. Provide a complete street address, P.O. Boxes are not acceptable. Refer to §748.5(d) of this part for a definition of ''intermediate consignee''. If this party is identical to that listed in Block 16, enter the complete name and address. If your proposed transaction does not involve use of an intermediate consignee, enter ''None''. If your proposed transaction involves more than one intermediate consignee, provide the same information in Block 24 for each additional intermediate consignee.

Block 18: Ultimate Consignee. This Block must be completed if you are submitting a license application. Enter the ultimate consignee's complete name, street address, city, country, postal code, and telephone or facsimile number. Provide a complete street address, P.O. Boxes are not acceptable. The ultimate consignee is the party who will actually receive the item for the end-use designated in Block 21. Refer to §748.5(e) of this part for a definition of ''ultimate consignee''. A bank, freight forwarder, forwarding agent, or other intermediary may not be identified as the ultimate consignee. Government purchasing organizations are the sole exception to this requirement. This type of entity may be identified as the government entity that is the actual ultimate consignee in those instances when the items are to be transferred to the government entity that is the actual end-user, provided the actual end-user and end-use is clearly identified in Block 21 or in the additional documentation attached to the application.

If your application is for the reexport of items previously exported, enter the new ultimate consignee's complete name, street address, city, country, postal code, and telephone or facsimile number. Provide a complete street address, P.O. Boxes are not acceptable. If your application involves a temporary export or reexport, the applicant should be shown as the ultimate consignee in care of a person or entity who will have control over the items abroad.

Block 19: End-User. Complete this Block only if the ultimate consignee identified in Block 18 is not the actual end-user. If there will be more than one end-user, use Form BIS-748P-B to identify each additional end-user. Enter each end-user's complete name, street address, city, country, postal code, and telephone or facsimile number. Provide a complete street address, P.O. Boxes are not acceptable.

Block 20: Original Ultimate Consignee. If your application involves the reexport of items previously exported, enter the original ultimate consignee's complete name, street address, city, country, postal code, and telephone or facsimile number. Provide a complete street address, P.O. Boxes are not acceptable. The original ultimate consignee is the entity identified in the original application for export as the ultimate consignee or the party currently in possession of the items.

Block 21: Specific End-Use: This Block must be completed if you are submitting a license application. Provide a complete and detailed description of the end-use intended by the ultimate consignee and/or end-user(s). If you are requesting approval of a reexport, provide a complete and detailed description of the end-use intended by the new ultimate consignee or end-user(s) and indicate any other countries for which resale or reexport is requested. If additional space is necessary, use Block 21 on Form BIS-748P-A or B. Be specific—vague descriptions such as ''research'', ''manufacturing'', or ''scientific uses'' are not acceptable.

Block 22: For a license application, you must complete each of the sub-blocks contained in this Block. If you are submitting a classification request, you need not complete Blocks (e), (f), (g), and (h). If you wish to export, reexport, or have BIS classify more than one item, use Form BIS-748P-A for additional items.

(a) ECCN. Enter the Export Control Classification Number (ECCN) that corresponds to the item you wish to export or reexport. If you are asking BIS to classify your item, provide a recommended classification for the item in this Block.

(b) CTP. You must enter the ''Adjusted Peak Performance'' (''APP'') in this Block if your application includes a digital computer or equipment containing a computer as described in supplement no. 2 to this part. Instructions on calculating the APP are contained in a Technical Note at the end of Category 4 in the CCL.

(c) Model Number. Enter the correct model number for the item.

(d) CCATS Number. If you have received a classification for this item from BIS, provide the CCATS number shown on the classification issued by BIS.

(e) Quantity. Identify the quantity to be exported or reexported, in terms of the unit commonly used in the trade.

(f) Units. The unit of quantity used in Block 22(e) must be entered on all license applications submitted to BIS. This Block may be left blank on license applications for technology only.

(g) Unit Price. Provide the fair market value of the items you wish to export or reexport. Round all prices to the nearest whole dollar amount. Give the exact unit price only if the value is less than $0.50. If normal trade practices make it impractical to establish a firm contract price, state in Block 24 the precise terms upon which the price is to be ascertained and from which the contract price may be objectively determined.

(h) Total Price. Provide the total price of the item(s) described in Block 22(j).

(i) Manufacturer. Provide the name only of the manufacturer, if known, for each of the items you wish to export, reexport, or have BIS classify, if different from the applicant.

(j) Technical Description. Provide a description of the item(s) you wish to export, reexport, or have BIS classify. Provide details when necessary to identify the specific item(s), include all characteristics or parameters shown in the applicable ECCN using measurements identified in the ECCN (e.g., basic ingredients, composition, electrical parameters, size, gauge, grade, horsepower, etc.). These characteristics must be identified for the items in the proposed transaction when they are different than the characteristics described in promotional brochure(s).

Block 23: Total Application Dollar Value. Enter the total value of all items contained on the application in U.S. Dollars. The use of other currencies is not acceptable.

Block 24: Additional Information. Enter additional data pertinent to the application as required in the EAR. Include special certifications, names of parties of interest not disclosed elsewhere, explanation of documents attached, etc. Do not include information concerning Block 22 in this space.

If your application represents a previously denied application, you must provide the Application Control Number from the original application.

If you are requesting BIS to classify your product, use this space to explain why you believe the ECCN entered in Block 22(a) is appropriate. This explanation must contain an analysis of the item in terms of the technical control parameters specified in the appropriate ECCN. If you have not identified a recommended classification in Block 22(a), you must state the reason you cannot determine the appropriate classification, identifying anything in the regulations that you believe precluded you from determining the correct classification.

If additional space is necessary, use Block 24 on Form BIS-748P-A or B.

This Block should be completed if your application includes a 9x515 or ''600 series'' item that is equivalent to a transaction previously approved under an ITAR license or other approval. Enter the previous State license number or other approval identifier in Block 24 of the BIS license application. If more than one previous State license number or other approval identifier is applicable, then enter the most recent one. Only those license applications where the particulars of the EAR license application are equivalent as previously authorized under the ITAR license or other approval in regard to the description of the item (including the item's function, performance capabilities, form and fit), purchaser, ultimate consignee and end users on the license will receive full consideration under this paragraph, which may result in a quicker processing time. The classification of the 9x515 or ''600 series'' item in question will no longer be the same because the item would no longer be ''subject to the ITAR,'' but all other aspects of the description of the item must be the same in order to be reviewed under this expedited process under paragraph (x) of supplement no. 2 to part 748 of the EAR.

Block 25: You, as the applicant or duly authorized agent of the applicant, must manually sign in this Block. Rubber-stamped or electronic signatures are not acceptable. If you are an agent of the applicant, in addition to providing your name and title in this Block, you must enter your company's name in Block 24. Type both your name and title in the space provided.

[61 FR 12812, Mar. 25, 1996, as amended at 62 FR 25462, May 9, 1997; 68 FR 35786, June 17, 2003; 71 FR 20886, Apr. 24, 2006; 73 FR 21036, Apr. 18, 2008; 75 FR 36500, June 25, 2010; 78 FR 22724, Apr. 16, 2013; 78 FR 61745, Oct. 3, 2013; 78 FR 61902, Oct. 4, 2013; 79 FR 27436, May 13, 2014; 80 FR 51730, Aug. 26, 2015; 81 FR 64676, Sept. 20, 2016]

SUPPLEMENT NO. 2 TO PART 748—UNIQUE APPLICATION AND SUBMISSION REQUIREMENTS

In addition to the instructions contained in supplement no. 1 to part 748, you must also ensure that the additional requirements for certain items or types of transactions described in this supplement are addressed in your license application. All other blocks not specifically identified in this supplement must be completed in accordance with the instructions contained in supplement no. 1 to part 748. The term ''Block'' used in this supplement relates to Form BIS-748P, unless otherwise noted.

(a) *Chemicals, medicinals, and pharmaceuticals.* If you are submitting a license application for the export or reexport of chemicals, medicinals, and/or pharmaceuticals, the following information must be provided in Block 22.

(1) Facts relating to the grade, form, concentration, mixture(s), or ingredients as may be necessary to identify the item accurately, and;

(2) The Chemical Abstract Service Registry (C.A.S.) numbers, if they exist, must be identified.

(b) *Communications intercepting devices.* If you are required to submit a license application under §742.13 of this part, you must enter the words ''Communications Intercepting Device(s)'' in Block 9. The item you are requesting to export or reexport must be specified by name in Block 22(j).

(c) *Computers, telecommunications, information security items, and related equipment.* If your license application includes items controlled by both Category 4 and Category 5, your license application must be submitted under Category 5 of the Commerce Control List (§774.1 of the EAR)—see Category 5 Part 1 Notes 1 and 2 and Part 2 Note 1. License applications including computers controlled by Category 4 must identify an ''Adjusted Peak Performance'' (''APP'') in Block 22(b). If the principal function is telecommunications, an APP is not required. Computers, related equipment, or software performing telecommunication or local area network functions will be evaluated against the telecommunications performance characteristics of Category 5 Part 1, while information security commodities, software and technology will be evaluated against the information security performance characteristics of Category 5 Part 2.

(1) Requirements for license applications that include computers. If you are submitting a license application to export or reexport computers or equipment containing computers to destinations in Country Group D:1 (See supplement no. 1 to part 740 of the EAR), or to upgrade existing computer installations in those countries, you must also include technical specifications and product brochures to corroborate the data supplied in your license application, in addition to the APP in Block 22(b).

(2) *Security Safeguard Plan requirement.* The United States requires security safeguards for exports, reexports, and transfers (in-country) of High Performance Computers (HPCs) to ensure that they are used for peaceful purposes. If you are submitting a license application for an export, reexport, or in-country transfer of a high performance computer to or within a destination in Computer Tier 3 (see §740.7(c)(1) of the EAR) or to Cuba, Iran, North Korea, Sudan, or Syria you must include with your license application a security safeguard plan signed by the end-

user, who may also be the ultimate consignee. This requirement also applies to exports, reexports, and transfers (in-country) of components or electronic assemblies to upgrade existing ''computer'' installations in those countries. A sample security safeguard plan is posted on BIS's Web page at *http://www.bis.doc.gov/hpcs/SecuritySafeguardPlans.html*.

(d) [Reserved]

(e) *Intransit through the United States.* If you are submitting a license application for items moving intransit through the United States that do not qualify for the *intransit* provisions of License Exception TMP (see §740.9(b)(1) of the EAR), you must provide the following information with your license application:

(1) In Block 9, enter the phrase ''Intransit Shipment'';

(2) In Block 24, enter the name and address of the foreign consignor who shipped the items to the United States and state the origin of the shipment;

(3) Any available evidence showing the approval or acquiescence of the exporting country (or the country of which the exporter is a resident) for shipments to the proposed ultimate destination. Such evidence may be in the form of a Transit Authorization Certificate; and

(4) Any support documentation required by §748.9 of this part for the country of ultimate destination.

(f) *Intransit outside of the United States.* If you are submitting a license application based on General Prohibition Eight stated in §736.2(b)(8) of the EAR and identification of the intermediate consignee in the country of unlading or transit is unknown at the time the license application is submitted, the country of unlading or transit must be shown in Block 17.

(g) *Nuclear Nonproliferation items and end-uses*—(1) *Statement requirement.* If a license is required to export or reexport items described in §742.3 of the EAR, or any other item (except those controlled for short supply reasons) where the item is intended for a nuclear end-use, prior to submitting a license application, you must obtain a signed written statement from the end-user certifying the following:

(i) The items to be exported or replicas thereof (''replicas'' refers to items produced abroad based on physical examination of the item originally exported, matching it in all critical design and performance parameters), will not be used in any of the activities described in §744.2(a) of the EAR; and

(ii) Written authorization will be obtained from the BIS prior to reexporting the items, unless they are destined to Canada or would be eligible for export from the United States to the new country of destination under NLR based on Country Chart NP Column 1.

(2) *License application requirements.* Along with the required certification, you must include the following information in your license application:

(i) In Block 7, place an (X) in the box titled ''Nuclear Certification'';

(ii) In Block 9, enter the phrase ''NUCLEAR CONTROLS'';

(iii) In Block 21, provide, if known, the specific geographic locations of any installations, establishments, or sites at which the items will be used;

(iv) In Block 22(j), if applicable, include a description of any specific features of design or specific modifications that make the item capable of nuclear explosive activities, or of safeguarded or unsafeguarded nuclear activities as described in §744.2(a)(3) of the EAR; and

(v) In Block 24, if your license application is being submitted because you know that your transaction involves a nuclear end-use described in §744.2 of the EAR, you must fully explain the basis for your knowledge that the items are intended for the purpose(s) described §744.2 of the EAR. Indicate, if possible, the specific end-use(s) the items will have in designing, developing, fabricating, or testing nuclear weapons or nuclear explosive devices or in designing, constructing, fabricating, or operating the facilities described in §744.2(a)(3) of the EAR.

(h) *Numerical control devices, motion control boards, numerically controlled machine tools, dimensional inspection machines, direct numerical control systems, specially designed assemblies and specially designed software.* (1) If you are submitting a license application to export, reexport, or request BIS to classify numerical control devices, motion control boards, numerically controlled machine tools, dimensional inspection machines, and specially designed software you must include the following information in your license application:

(i) For numerical control devices and motion control boards:

(A) Make and model number of the control unit;

(B) Description and internal configuration of numerical control device. If the device is a computer with motion control board(s), then include the make and model number of the computer;

(C) Description of the manner in which a computer will be connected to the CNC unit for on-line processing of CAD data. Specify the make and model of the computer;

(D) Number of axes the control unit is capable of simultaneously controlling in a coordinated contouring mode, and type of interpolation (linear, circular, and other);

(E) Minimum programmable increment;

(F) A description and an itemized list of all software/firmware to be supplied with the

control device or motion control board, including software/firmware for axis interpolation function and for any programmable control unit or device to be supplied with the control unit;

(G) Description of capabilities related to ''real time processing'' and receiving computer aided-design;

(H) A description of capability to accept additional boards or software that would permit an upgrade of the electronic device or motion control board above the control levels specified in ECCN 2B001; and

(I) Specify if the electronic device has been downgraded, and if so can it be upgraded in future.

(ii) For numerically controlled machine tools and dimensional inspection machines:

(A) Name and model number of machine tool or dimensional inspection machine;

(B) Type of equipment, e.g., horizontal boring machine, machining center, dimensional inspection machine, turning center, water jet, etc.;

(C) Description of the linear and rotary axes capable of being simultaneously controlled in a coordinated contouring mode, regardless of the fact that the coordinated movement of the machine axis may be limited by the numerical control unit supplied by the machine tool;

(D) Maximum workpiece diameter for cylindrical grinding machines;

(E) Motion (camming) of the spindle axis measured in the axial direction in one revolution of the spindle, and a description of the method of measurement for turning machine tools only;

(F) Motion (run out) of the spindle axis measured in the radial direction in one revolution of the spindle, and a description of the method of measurement;

(G) Overall positioning accuracy in each axis, and a description of the method for measurement; and

(H) Slide motion test results.

(i) *Parts, components, and materials incorporated abroad into foreign-made products.* BIS will consider license applications to export or reexport to multiple consignees or multiple countries when an application is required for foreign produced direct product containing parts and components subject to the EAR in §732.4(b) of the EAR and to General Prohibition Two stated in §736.2(b)(2) of the EAR. Such requests will not be approved for countries listed in Country Group E:2 (See supplement no. 1 to part 740 of the EAR), and may be approved only in limited circumstances for countries listed in Country Group D:1.

(1) *License applications for the export of parts and components.* If you are submitting a license application for the export of parts, components, or materials to be incorporated abroad into products that will then be sent to designated third countries, you must enter in Block 21, a description of end-use including a general description of the commodities to be manufactured, their typical end-use, and the countries where those commodities will be marketed. The countries may be listed specifically or may be identified by Country Groups, geographic areas, etc.

(2) *License applications for the reexport of incorporated parts and components.* If you are submitting a license application for the reexport of parts, components, or materials incorporated abroad into products that will be sent to designated third countries you must include the following information in your license application:

(i) In Block 9, enter the phrase ''Parts and Components'';

(ii) In Block 18, enter the name, street address, city and country of the foreign party who will be receiving the foreign-made product. If you are requesting approval for multiple countries or consignees enter ''Various'' in Block 18, and list the specific countries, Country Groups, or geographic areas in Block 24;

(iii) In Block 20, enter the name, street address, city, and country of the foreign party who will be exporting the foreign-made product incorporating U.S. origin parts, components or materials;

(iv) In Block 21, describe the activity of the ultimate consignee identified in Block 18 and the end-use of the foreign-made product. Indicate the final configuration if the product is intended to be incorporated in a larger system. If the end-use is unknown, state ''unknown'' and describe the general activities of the end-user;

(v) In Block 22(e), specify the quantity for each foreign-made product. If this information is unknown, enter ''Unknown'' in Block 22(e);

(vi) In Block 22(h), enter the digit ''0'' for each foreign-made product;

(vii) In Block 22(j), describe the foreign-made product that will be exported, specifying type and model or part number. Attach brochures or specifications, if available. Show as part of the description the unit value, in U.S. dollars, of the foreign-made product (if more than one foreign-made product is listed on the license application, specify the unit value for each type/model/part number). Also include a description of the U.S. content (including the applicable Export Control Classification Number(s)) and its value in U.S. dollars. If more than one foreign-made product is identified on the license application, describe the U.S. content and specify the U.S. content value for each foreign-made product. Also, provide sufficient supporting information to explain the basis for the stated values. To the extent possible, explain how much of the value of the foreign-made product represents foreign origin parts, components, or materials, as opposed to labor, overhead, etc. When the

U.S. content varies and cannot be specified in advance, provide a range of percentage and value that would indicate the minimum and maximum U.S. content;

(viii) Include separately in Block 22(j) a description of any U.S. origin spare parts to be reexported with the foreign-made product, if they exceed the amount allowed by §740.10 of the EAR. Enter the quantity, if appropriate, in Block 22(e). Enter the ECCN for the spare parts in Block 22(a) and enter the value of the spare parts in Block 22(h);

(ix) In Block 23, enter the digit ''0'';

(x) If the foreign-made product is the direct product of U.S. origin technology that was exported or reexported subject to written assurance, a request for waiver of that assurance, if necessary, may be made in Block 24. If U.S. origin technology will accompany a shipment to a country listed in Country Group D:1, E:1, or E:2 (see supplement no. 1 to part 740 of the EAR) describe in Block 24 the type of technology and how it will be used.

(j) *Ship stores, plane stores, supplies, and equipment*—(1) *Vessels under construction.* If you are submitting a license application for the export or reexport of items, including ship stores, supplies, and equipment, to a vessel under construction you must include the following information in your license application:

(i) In Block 18, enter the name, street address, city, and country of the shipyard where vessel is being constructed;

(ii) In Block 22(j), state the length of the vessel for a vessel under 12 m (40 ft) in length. For a vessel 12 m (40 ft) in length or over, provide the following information (if this information is unknown, enter ''Unknown'' in this Block):

(A) Hull number and name of vessel;

(B) Type of vessel;

(C) Name and business address of prospective owner, and the prospective owner's nationality; and

(D) Country of registry or intended country of registry.

(2) *Aircraft under construction.* If you are submitting a license application for the export or reexport of items, including plane stores, supplies, and equipment, to an aircraft under construction you must include the following information in your license application:

(i) In Block 18, enter the name and address of the plant where the aircraft is being constructed;

(ii) In Block 22(j), enter the following information (if this information is unknown, enter ''Unknown'' in this Block):

(A) Type of aircraft and model number;

(B) Name and business address of prospective owner and his nationality; and

(C) Country of registry or intended country of registry.

(3) *Operating vessels and aircraft.* If you are submitting a license application for the export or reexport of items, including ship or plane stores, supplies, and equipment to an operating vessel or aircraft, whether in operation or being repaired, you must include the following information in your license application:

(i) In Block 18, enter the name of the owner, the name of the vessel, if applicable, and port or point where the items will be taken aboard;

(ii) In Block 18, enter the following statement if, at the time of filing the license application, it is uncertain where the vessel or aircraft will take on the items, but it is known that the items will not be shipped to a country listed in Country Group D:1 or E:2 (see supplement no. 1 to part 740 of the EAR):

Uncertain; however, shipment(s) will not be made to Country Groups D:1 or E:2.

(iii) Provide information as described in paragraph (j)(1)(ii) of this supplement for vessels or information contained in paragraph (j)(2)(ii) of this supplement for aircraft.

(k) *Regional stability controlled items.* (1) If you are submitting a license application for the export or reexport of items controlled for regional stability reasons and subject to licensing under RS Column 1 on the Country Chart, your license application must be accompanied by full technical specifications.

(2) If you are submitting a license application for the export or reexport to Austria, Cyprus, Finland, Ireland, Israel, Malta, Mexico, Singapore or Sweden of items controlled by ECCNs 2A984, 2D984 or 2E984 to a person designated by a government end-user, pursuant to contract, your license application to export to such designated person must include a statement from the government end-user to be eligible for the licensing policy under §742.6(b)(2)(ii). A responsible official representing the designated end-user must sign the statement. ''Responsible official'' is defined as someone with personal knowledge of the information included in the statement, and authority to bind the designated end-user for whom they sign, and who has the power and authority to control the use and disposition of the licensed items. Statements from government end-users that the person is so designated (*i.e.*, support documents submitted in accordance with this paragraph (k)(2)) must address the following three criteria for a license application to be reviewed in accordance with the license review policy in §742.6(b)(2)(ii):

(i) U.S. Department of Homeland Security (DHS) Customer Contract Number or agreement reference number, End-user name (company), complete address (including street address, city, state, country and postal code), end-user point of contact (POC);

(ii) Brief contract description, including DHS Project information and projected outcome; and

(iii) The statement shall include a certification stating ''We certify that all of the representations in this statement are true and correct to the best of our knowledge and we do not know of any additional representations which are inconsistent with the above statement.''

(l) *Reexports.* If you know that an item that requires a license to be exported from the United States to a certain foreign destination will be reexported to a third destination also requiring approval, such a request must be included on the license application. The license application must specify the country to which the reexport will be made in Block 24. If the export does not require a license but the reexport does, you may apply for a license for the reexport, or you may export without a license and notify the consignee of the requirement to seek a license to reexport.

(m) *Robots.* If you are submitting a license application for the export or reexport of items controlled by ECCNs 2B007 or 2D001 (including robots, robot controllers, end-effectors, or related software) the following information must be provided in Block 24:

(1) Specify if the robot is equipped with a vision system and its make, type, and model number;

(2) Specify if the robot is specially designed to comply with national safety standards for explosive munitions environments;

(3) Specify if the robot is specially designed for outdoor applications and if it meets military specifications for those applications;

(4) Specify if the robot is specially designed for operating in an electro-magnetic pulse (EMP) environment;

(5) Specify if the robot is specially designed or rated as radiation-hardened beyond that necessary to withstand normal industrial (i.e., non-nuclear industry) ionizing radiation, and its rating in grays (Silicon);

(6) Describe the robot's capability of using sensors, image processing or scene analysis to generate or to modify robot program instructions or data;

(7) Describe the manner in which the robot may be used in nuclear industry/manufacturing; and

(8) Specify if the robot controllers, end-effectors, or software are specially designed for robots controlled by ECCN 2B007, and why.

(n) *Short Supply controlled items.* If you are submitting a license application for the export of items controlled for short supply reasons, you must consult part 754 of the EAR for instructions on preparing your license application.

(o) *Technology*—(1) *License application instructions.* If you are submitting a license application for the export or reexport of technology you must check the box labeled ''Letter of Explanation'' in Block 6, enter the word ''Technology'' in Block 9, leave Blocks 22(e) and (i) blank, and include a general statement that specifies the technology (e.g., blueprints, manuals, etc.) in Block 22(j).

(2) *Letter of explanation.* Each license application to export or reexport technology must be supported by a comprehensive letter of explanation. This letter must describe all the facts for a complete disclosure of the transaction including, if applicable, the following information:

(i) The identities of all parties to the transaction;

(ii) The exact project location where the technology will be used;

(iii) The type of technology to be exported or reexported;

(iv) The form in which the export or reexport will be made;

(v) The uses for which the data will be employed;

(vi) An explanation of the process, product, size, and output capacity of all items to be produced with the technology, if applicable, or other description that delineates, defines, and limits the data to be transmitted (the ''technical scope''); and

(vii) The availability abroad of comparable foreign technology.

(3) *Special provisions*—(i) *Technology controlled for national security reasons.* If you are submitting a license application to export technology controlled for national security reasons to a country *not* listed in Country Group D:1, E:1, or E:2 (see supplement no. 1 to part 740 of the EAR), upon request, you must provide BIS a copy of the written letter from the ultimate consignee assuring that, unless prior authorization is obtained from BIS, the consignee will not knowingly reexport the technology to any destination, or export the direct product of the technology, directly or indirectly, to a country listed in Country Group D:1, E:1, or E:2 (see supplement no. 2 to part 740 of the EAR). If you are unable to obtain this letter of assurance from your consignee, you must state in your license application why the assurances could not be obtained.

(ii) *Maritime nuclear propulsion plants and related items.* If you are submitting a license application to export or reexport technology relating to maritime nuclear propulsion plants and related items including maritime (civil) nuclear propulsion plants, their land prototypes, and special facilities for their construction, support, or maintenance, including any machinery, device, component, or equipment specifically developed or designed for use in such plants or facilities you must include the following information in your license application:

(A) A description of the foreign project for which the technology will be furnished;

(B) A description of the scope of the proposed services to be offered by the applicant, his consultant(s), and his subcontractor(s), including all the design data that will be disclosed;

(C) The names, addresses and titles of all personnel of the applicant, the applicant's consultant(s) and subcontractor(s) who will discuss or disclose the technology or be involved in the design or development of the technology;

(D) The beginning and termination dates of the period of time during which the technology will be discussed or disclosed and a proposed time schedule of the reports the applicant will submit to BIS, detailing the technology discussed or disclosed during the period of the license;

(E) The following certification:

I (We) certify that if this license application is approved, I (we) and any consultants, subcontractors, or other persons employed or retained by us in connection with the project licensed will not discuss with or disclose to others, directly or indirectly, any technology relating to U.S. naval nuclear propulsion plants. I (We) further certify that I (we) will furnish to the Bureau of Industry and Security all reports and information it may require concerning specific transmittals or disclosures of technology under any license granted as a result of this license application.

(F) A statement of the steps that you will take to assure that personnel of the applicant, the applicant's consultant(s) and subcontractor(s) will not discuss or disclose to others technology relating to U.S. naval nuclear propulsion plants; and

(G) A written statement of assurance from the foreign importer as described in paragraph (o)(3)(i) of this supplement.

(p) *Temporary exports or reexports.* If you are submitting a license application for the temporary export or reexport of an item (not eligible for the *temporary exports and reexports* provisions of License Exception TMP (see §740.9(a) of the EAR)) you must include the following certification in Block 24:

The items described on this license application are to be temporarily exported (or reexported) for (state the purpose e.g., demonstration, testing, exhibition, etc.), used solely for the purpose authorized, and returned to the United States (or originating country) as soon as the temporary purpose has ended, but in no case later than one year of the date of export (or reexport), unless other disposition has been authorized in writing by the Bureau of Industry and Security.

(q) *Chemicals controlled for CW reasons under ECCN 1C350.* In addition to any supporting documentation required by part 748, you must also obtain from your consignee an End-Use Certificate for the export of chemicals controlled for CW reasons by ECCN 1C350 to non-States Parties (destinations not listed in supplement no. 2 to part 745 of the EAR). See §745.2 of the EAR. In addition to the End-Use Certificate, you may still be required to obtain a Statement by Ultimate Consignee and Purchaser (Form BIS–711P) as support documentation. Consult §§748.9 and 748.11 of the EAR.

(r) *Encryption classification requests.* Failure to follow the instructions in this paragraph may delay consideration of your encryption classification request.

(1) [Reserved]

(2) *Classification Requests.* Fill out blocks 1–4, 14, 15, 22, and 25 pursuant to the instructions in supplement no. 1 to this Part. Leave blocks 6, 7, 8, 10–13, 18–21, and 23 blank. Follow the directions specified for the blocks indicated below.

(i) In Block 5 (Type of Application), place an ''X'' in the box marked ''classification'' or ''commodity classification'' if submitting electronically for classification requests.

(ii) In Block 9 (Special Purpose).

(A) If submitting via SNAP–R, check the box ''check here if you are submitting information about encryption required by 740.17 or 742.15 of the EAR.''

(B) From the drop down menu in SNAP–R, choose:

(*1*) ''License Exception ENC'' if you are submitting an encryption classification request for specified License Exception ENC provisions (§§740.17(b)(2) or (b)(3) of the EAR);

(*2*) ''Mass market encryption'' if you are submitting an encryption classification request for certain mass market encryption items (§740.17(b) of the EAR).

(*3*) ''Encryption—other'' if you are submitting an encryption classification, for another reason.

(s)–(t) [Reserved]

(u) *Aircraft and vessels on temporary sojourn.* If the application is for an aircraft or a vessel traveling on a temporary sojourn, state the value of the aircraft or vessel as $0 in box 22(g) (unit price) and 22(h) (total price). In box 23 (Total Application Dollar Value), insert the total value of items other than the aircraft or vessel that are included in the same application. If the application is only for the aircraft or vessel on temporary sojourn, insert $0.

(v) *In-country transfers.* To request an in-country transfer, you must specify ''in-country transfer'' in Block 9 (Special Purpose) and mark ''Reexport'' in Block 5 (Type of Application) of the BIS–748P ''Multipurpose Application'' form. The application also must specify the same foreign country for both the original ultimate consignee and the new ultimate consignee.

(w) *License Exception STA eligibility requests for ''600 series'' end items.* To request a License Exception STA eligibility requests for ''600 series'' end items pursuant to §740.20(g),

you must mark an (X) in the ''Export'' box in Block 5 (Type of Application) block. You must mark an (X) in the ''Other'' box and insert the phrase ''STA request'' '' in Block 6 (Documents submitted with application) block. You must include the specific ''600 Series'' ECCN in Block 22. In addition to the ECCN, you will need to provide sufficient information for the U.S. Government to make a determination as to STA eligibility. This will require you to submit more than merely a description of the end item. In particular, you will need to provide supporting information for why you believe that the end item does not, for example, provide a critical military or intelligence advantage to the United States or is available in countries that are not regime partners or close allies. You will also need to provide information regarding whether and, if so, how the end item is controlled by the export control laws and regulations of close allies and regime partners, if known. If you are not able to provide some of the information described above, the U.S. Government will still evaluate the request, including using resources and information that may only be available to the U.S. Government. However, when submitting such requests you are encouraged to provide as much information as you can based on the criteria noted above to assist the U.S. Government in evaluating these License Exception STA eligibility requests. In addition, you should provide BIS with the text you would propose BIS use in describing the end item in the appropriate ''600 series'' ECCN and the online table referenced in §740.20(g)(5)(i) in anticipation that the request may be approved pursuant to §740.20(g). You may submit additional information that you believe is relevant to the U.S. Government in reviewing the License Exception STA eligibility request as part of that support document or as an additional separate support document attachment to the license application.

(x) *License application for a transaction involving a 9x515 or ''600 series'' item that is equivalent to a transaction previously approved under an ITAR license or other approval.* To request that the U.S. Government review of a license application for a 9x515 or ''600 series'' item also take into consideration a previously approved ITAR license or other approval, applicants must also include the State license number or other approval identifier in Block 24 of the BIS license application (see the instructions in supplement no. 1 to part 748 under Block 24).

(y) *Satellite exports.* (1) A license application to export a satellite controlled by ECCN 9A515.a for launch in or by a country that is not a member of the North Atlantic Treaty Organization (NATO) or a major non-NATO ally of the United States (as defined in 22 CFR 120.31 and 120.32), must include a statement affirming that at the time of application or prior to export or reexport the following will be in place:

(i) A technology transfer control plan approved by the Department of Defense and an encryption technology control plan approved by the National Security Agency, or drafts reflecting advance discussions with the departments and information identifying the U.S. Government officials familiar with the preparation of such draft plans; and

(ii) Evidence of arrangements with the Department of Defense for monitoring of the launch activities.

(2) A license application to export a satellite controlled by ECCN 9A515.a for launch in or by a country that is a member of the North Atlantic Treaty Organization (NATO) or that is a major non-NATO ally of the United States (as defined in 22 CFR 120.31 and 120.32), must include a statement affirming that at the time of application or prior to export or reexport the following will be in place:

(i) A technology transfer control plan approved by the Department of Defense and an encryption technology control plan approved by the National Security Agency, or documentation from the Department of Defense that such plans are not required; and

(ii) Evidence of arrangements with the Department of Defense for monitoring of the launch or documentation from the Department of Defense that such monitoring is not required.

NOTE 1 TO PARAGRAPH (y): Regardless of a satellite's or spacecraft's jurisdictional status, ownership, or origin, the ITAR controls as a ''defense service'' the furnishing of assistance (including training) by a U.S. person to a foreign person directly related to (a) the integration of a satellite or spacecraft to a launch vehicle or (b) launch failure analyses. See (See 22 CFR 121, Categories IV(i) and XV(f), and 22 CFR 124.15).

[61 FR 12812, Mar. 25, 1996]

EDITORIAL NOTE: For FEDERAL REGISTER citations affecting supplement no. 2 to part 748, see the List of CFR Sections Affected, which appears in the Finding Aids section of the printed volume and at *www.fdsys.gov*.

SUPPLEMENT NO. 3 TO PART 748—STATEMENT BY ULTIMATE CONSIGNEE AND PURCHASER CONTENT REQUIREMENTS

If a statement on company letterhead will be used to meet the requirement to obtain a Statement by Ultimate Consignee and Purchaser, as described in §748.11(a), follow the requirements described in paragraph (a) of this appendix. If Form BIS–711 will be used to meet the requirement, follow the requirements described in paragraph (b) of this appendix.

(a) *Statement on company letterhead.* Information in response to each of the following criteria must be included in the statement. If any information is unknown, that fact should be disclosed in the statement. Preprinted information supplied on the statement, including the name, address, or nature of business of the ultimate consignee or purchaser appearing on the letterhead or order form is acceptable but will not constitute evidence of either the signer's identity, the country of ultimate destination, or end use of the items described in the license application.

(1) *Paragraph 1.* One of the following certifications must be included depending on whether the statement is proffered in support of a single license application or multiple license applications:

(i) *Single.* This statement is to be considered part of a license application submitted by [name and address of applicant].

(ii) *Multiple.* This statement is to be considered a part of every license application submitted by [name and address of applicant] until four years from the date this statement is signed.

(2) *Paragraph 2.* One or more of the following certifications must be included. Note that if any of the facts related to the following statements are unknown, this must be clearly stated.

(i) The items for which a license application will be filed by [name of applicant] will be used by us as capital equipment in the form in which received in a manufacturing process in [name of country] and will not be reexported or incorporated into an end product.

(ii) The items for which a license application will be filed by [name of applicant] will be processed or incorporated by us into the following product(s) [list products] to be manufactured in [name of country] for distribution in [list name of country or countries].

(iii) The items for which a license application will be filed by [name of applicant] will be resold by us in the form in which received for use or consumption in [name of country].

(iv) The items for which a license application will be filed by [name of applicant] will be reexported by us in the form in which received to [name of country or countries].

(v) The items received from [name of applicant] will be [describe use of the items fully].

(3) *Paragraph 3.* The following two certifications must be included:

(i) The nature of our business is [possible choices include: broker, distributor, fabricator, manufacturer, wholesaler, retailer, value added reseller, original equipment manufacturer, etc.].

(ii) Our business relationship with [name of applicant] is [possible choices include; contractual, franchise, distributor, wholesaler, continuing and regular individual business, etc.] and we have had this business relationship for [number of years].

(4) *Paragraph 4.* The final paragraph must include all of the following certifications:

(i) We certify that all of the facts contained in this statement are true and correct to the best of our knowledge and we do not know of any additional facts that are inconsistent with the above statements. We shall promptly send a replacement statement to [name of the applicant] disclosing any material change of facts or intentions described in this statement that occur after this statement has been prepared and forwarded to [name of applicant]. We acknowledge that the making of any false statement or concealment of any material fact in connection with this statement may result in imprisonment or fine, or both, and denial, in whole or in part, of participation in U.S. exports or reexports.

(ii) Except as specifically authorized by the U.S. Export Administration Regulations, or by written approval from the Bureau of Industry and Security, we will not reexport, resell, or otherwise dispose of any items approved on a license supported by this statement:

(A) To any country not approved for export as brought to our attention by the exporter; or

(B) To any person if there is reason to believe that it will result directly or indirectly in disposition of the items contrary to the representations made in this statement or contrary to the U.S. Export Administration Regulations.

(iii) We understand that acceptance of this statement as a support document cannot be construed as an authorization by BIS to reexport or transfer (in country) the items in the form in which received even though we may have indicated the intention to reexport or transfer (in country), and that authorization to reexport (or transfer in country) is not granted in an export license on the basis of information provided in the statement, but as a result of a specific request in a license application.

(b) *Form BIS–711.* Form BIS–711 is available at *http://www.bis.doc.gov /index.php/component/rsform /form/21-request-bis-forms?task =forms.edit.* Instructions on completing Form BIS–711 are described below. The ultimate consignee and purchaser may sign a legible copy of Form BIS–711. It is not necessary to require the ultimate consignee and purchaser to sign an original Form BIS–711, provided all information contained on the copy is legible. All information must be typed or legibly printed in each appropriate Block or Box.

(1) Block 1: Ultimate Consignee. The Ultimate Consignee must be the person abroad who is actually to receive the material for the disposition stated in Block 2. A bank, freight forwarder, forwarding agent, or other

intermediary is not acceptable as the Ultimate Consignee.

(2) Block 2: Disposition or Use of Items by Ultimate Consignee named in Block 1. Place an (X) in ''A.,'' ''B.,'' ''C.,'' ''D.,'' and ''E.,'' as appropriate, and fill in the required information.

(3) Block 3: Nature of Business of Ultimate Consignee named in Block 1. Complete both ''A'' and ''B''. Possible choices for ''A'' include: broker, distributor, fabricator, manufacturer, wholesaler, retailer, value added reseller, original equipment manufacturer, etc. Possible choices for ''B'' include: contractual, franchise, distributor, wholesaler, continuing and regular individual business, etc.

(4) Block 4: Additional Information. Provide any other information not appearing elsewhere on the form such as other parties to the transaction, and any other material facts that may be of value in considering license applications supported by this statement.

(5) Block 5: Assistance in Preparing Statement. Name all persons, other than employees of the ultimate consignee or purchaser, who assisted in the preparation of this form.

(6) Block 6: Ultimate Consignee. Enter the requested information and sign the statement in ink. (For a definition of ultimate consignee, see §748.5(e) of this part.)

(7) Block 7: Purchaser. This form must be signed in ink by the Purchaser, if the Purchaser is not the same as the Ultimate Consignee identified in Block 1. (For a definition of purchaser, see §748.5(c) of this part.)

(8) Block 8: Certification for Exporter. This Block must be completed to certify that no correction, addition, or alteration on this form was made subsequent to the signing by the Ultimate Consignee in Block 6 and Purchaser in Block 7.

[80 FR 13221, Mar. 13, 2015]

SUPPLEMENT NO. 4 TO PART 748 [RESERVED]

SUPPLEMENT NO. 5 TO PART 748—U.S. IMPORT CERTIFICATE AND DELIVERY VERIFICATION PROCEDURE

The United States participates in an Import Certificate/Delivery Verification procedure. Under this procedure, U.S. importers are sometimes required to provide their foreign suppliers with an U.S. International Import Certificate that is validated by the U.S. Government. This certificate tells the government of the exporter's country that the items covered by the certificate will be imported into the U.S. Economy and will not be reexported except as authorized by U.S. export control regulations. In addition, in some cases, the exporter's government may require a delivery verification. Under this procedure, the U.S. Customs Service validates a certificate confirming that the items have entered the U.S. economy. The U.S. importer must return this certificate to the foreign exporter.

This supplement establishes the procedures and requirements of BIS with respect to both of these programs. Paragraph (a) of this supplement contains the requirements and procedures of the U.S. International Import Certificate procedure. Paragraph (b) of this supplement contains the requirements and procedures of the Delivery Verification procedure.

(a) U.S. International Import Certificates. If you are a U.S. importer, a foreign supplier may request you to obtain a U.S. import certificate. The reason for this request is that the exporter's government requires a U.S. import certificate as a condition to issuing an export license. To obtain such a certificate you will have to fill in and execute the U.S. International Import Certificate form (Form BIS–645P/ATF–4522/DSP–53) and submit it to the U.S. government agency that has jurisdiction over the items you are importing. In doing so, you will be making a representation to the United States Government that you will import the items described in the certificate into the United States or if not so imported, you will not divert, transship or reexport them to another destination with the explicit approval of the U.S. government agency that has jurisdiction over those items. (Representations that items will be entered into the U.S. do not preclude the temporary unloading of items in a foreign trade zone for subsequent entry into the economy of the U.S.) If the items described in the certificate are subject to U.S. Department of Commerce jurisdiction, the Department will validate the certificate and return it to you. You may then send the certificate to your foreign supplier. In this way the government of the exporting country is assured that the items will become subject to the export control laws of the United States.

(1) Items for which the U.S. Department of Commerce issues U.S. International Import Certificates and forms to use. The Department of Commerce issues U.S. International Import Certificates for the following types of items.

(i) Items controlled for National Security reasons. Items under the export licensing jurisdiction of BIS that are identified as controlled for national security reasons on the Commerce Control List (supplement no. 1 to part 774 of the EAR). You will need to submit in triplicate a completed Form BIS–645P/ATF–4522/DSP–53;

(ii) Nuclear equipment and materials. Items subject to the export licensing jurisdiction of the Nuclear Regulatory Commission for nuclear equipment and materials.

(see 10 CFR part 110). You will need to submit in quadruplicate a completed Form BIS–645P/ATF–4522/DSP–53; and

(iii) Munitions Items. Items listed on the U.S. Munitions List (see 22 CFR part 121) that do not appear on the more limited U.S. Munitions Import List (27 CFR 47.21). You will need to submit in triplicate a completed Form BIS–645P. For triangular transactions (See paragraph (a)(5) of this supplement) involving items on the U.S. Munitions List, you must contact the Department of State, Directorate of Defense Trade Controls and use Form BIS–645P/ATF–4522/DSP–53. You should contact the Treasury Department, Bureau of Alcohol, Tobacco and Firearms for items appearing on the U.S. Munitions Import List. You will need to use Form ATF–4522.

(2) Where to submit forms. U.S. International Import Certificates and requests to amend certificates may be presented for validation either in person or by mail at the following locations.

(i) By courier to the Bureau of Industry and Security, Room 2099B, 14th Street and Pennsylvania Ave., NW., Washington, DC 20230, Attn: Import Certificate Request; or

(ii) In person or by mail at one of the following Department of Commerce U.S. and Foreign Commercial Service District Offices:

Boston, MA	New Orleans, LO
Buffalo, NY	New York, NY
Chicago, IL	Philadelphia, PA
Cincinnati, OH	Phoenix, AZ
Cleveland, OH	Pittsburgh, PA
Dallas, TX	Portland, OR
Detroit, MI	St. Louis, MO
Houston, TX	San Francisco, CA
Kansas City, MO	Savannah, GA
Los Angeles, CA	Seattle, WA
Miami, FL	Trenton, NJ

(3) U.S. International Import Certificate validity periods. The U.S. International Import Certificate must be submitted to the foreign government within six months from the date of certification by the U.S. Department of Commerce. The expiration of this six-month period in no way affects the responsibility of the importer to fulfill the commitments made in obtaining the certificate. If the certificate is not presented to the government of the exporting country before the expiration of its validity period, the exporter must apply for a new certificate. The original unused U.S. International Import Certificate must be returned to BIS at the address specified in paragraph (a)(2)(i) of this supplement.

(4) Statements on the certificate or amendments are representations to the U.S. Government which continue in effect.

(i) All statements and representations made in a U.S. International Import Certificate or an amendment thereto, will be deemed to be continuing in nature until the transaction described in the certificate is completed and the items are delivered into the economy of the importing country.

(ii) Any change of fact or intention in regard to the transaction described in the certificate shall be promptly disclosed to BIS by the U.S. importer by presentation of an amended certificate. The amended certificate must describe all of the changes and be accompanied by the original certificate bearing the certification of BIS. If the original certificate has been transferred to the foreign exporter, you must, where possible, attempt to obtain the original certificate prior to applying for an amendment. If the original certificate is unobtainable because the foreign exporter has submitted it to the appropriate foreign government, or for any other reason, then you must submit a written statement with your amendment giving the reasons for your failure to submit the original certificate.

(5) Certificates for Triangular transaction (items will not enter the U.S. or applicant is not sure that they will enter the United States).

(i) In accordance with international practice, BIS will, upon request, stamp the certificate with a triangular symbol as notification to the government of the exporting country that the U.S. importer is uncertain whether the items will be imported into the U. S. or knows that the items will not be imported into the U.S., but that, in any case, the items will not be delivered to any other destination except in accordance with the EAR.

(ii) The triangular symbol on a certificate U.S. International Import Certificate is not, in and of itself, an approval by BIS to transfer or sell items to a foreign consignee. Note that a triangular Certificate will not be issued covering foreign excess property sold abroad by the U.S. Department of Defense.

(6) Approval to export items to a foreign consignee prior to delivery under a U.S. International Import Certificate. The written approval of BIS is required before items covered by a U.S. International Import Certificate (whether or not bearing a triangular symbol) may be shipped to a destination other than the U.S. or Canada or sold to a foreign purchaser, and before title to or possession of such items may be transferred to a foreign transferee. This requirement does not apply after the items have been delivered in accordance with the undertaking set forth in the Certificate or if at the time of such shipment, sale, passage of possession or passage of title, a License Exception or a NLR provision of the EAR would authorize the transaction.

(i) If prior approval is required, a letter requesting authorization to release the shipment shall be submitted to BIS at the address listed in paragraph (a)(2)(i) of this supplement.

(ii) The letter must contain the certificate number; date issued; location of the issuing office; names, addresses, and identities of all parties to the complete transaction; and the quantity, dollar value, and description of the items. The letter must be accompanied by the U.S. International Import Certificate, and all other documentation required by the EAR for the item and country of ultimate destination, as identified in part 748 of the EAR. If requirements stated in part 748 of the EAR do not apply to your transaction, you must identify the intended end-use of the items in your letter.

(iii) Where the letter request is approved and is supported by a foreign import certificate, no further approval from BIS is required for the purchaser or transferee to resell or again transfer the items. However, where BIS approves a request that was not supported by a foreign import certificate, the person to whom approval is granted is required to inform the purchaser or transferee, in writing, that the items are to be shipped to the approved destination only and that no other disposition of the items is permitted without the approval of BIS.

(iv) If the transaction is approved, a validated letter of approval will be sent to the U.S. purchaser for retention in his records. Where a DV or other official government confirmation of delivery is required, the letter will so indicate.

(v) If the items covered by a certificate have been imported into a destination other than the U.S. and the foreign exporter of the items requests a Delivery Verification, the person who obtained the certificate must obtain a DV from the person to whom the items were delivered in the actual importing country. (If a DV is unobtainable, other official government confirmation of delivery must be obtained.) The DV or other official government confirmation of delivery must be submitted to BIS together with an explanatory letter giving the U.S. International Import Certificate number, date issued, and location of issuing office. BIS will then issue Form ITA–6008, Delivery Compliance Notice, in two copies, the original of which must be forwarded to the country of origin in order to serve as evidence to the exporting country that the requirements of the U.S. Government have been satisfied with respect to delivery of the items.

(vi) Delivery, sale, or transfer of items to another U.S. purchaser.

(A) Items covered by a U.S. International Import Certificate may not be sold, and title to or possession of such items may not be transferred, to another U.S. purchaser or transferee before the items are delivered to the U.S. (or to an approved foreign destination, as provided by paragraph (a)(5) of this supplement), except in accordance with the provisions described in paragraph (a)(6) of this supplement. The provisions of this paragraph do not apply after the items have been delivered in accordance with the undertaking set forth in the certificate.

(B) Resale or transfer to another U.S. purchaser or transferee requires the prior approval of BIS only in cases where the buyer or transferee is listed in supplement no. 1 to part 766 of the EAR. However, you, as the person who obtained the certificate are required to notify BIS of any change in facts or intentions relating to the transaction, and in all cases you will be held responsible for the delivery of the items in accordance with the EAR. You are required in all cases to secure, prior to sale or transfer, and to retain in your files in accordance with the recordkeeping provisions contained in part 762 of the EAR, written acceptance by the purchaser or transferee of:

(*1*) All obligations undertaken by, and imposed under the EAR, upon the holder of the certificate; and

(*2*) An undertaking that all subsequent sales or transfers will be made subject to the same conditions.

(C) The responsibility of the certificate holder for obtaining a DV also applies to those cases where the items are resold to a U.S. purchaser (See paragraph (b)(1) of this supplement.

(vii) Reexport or transshipment of items after delivery to U.S. Items imported into the U.S. under the provisions of a U.S. International Import Certificate may not be reexported to any destination under the *intransit* provisions of License Exception TMP (see §740.9(b)(1) of the EAR). However, all other provisions of the EAR applicable to items of domestic origin shall apply to the reexport of items of foreign origin shipped to the U.S. under a U.S. International Import Certificate.

(viii) Lost or destroyed U.S. International Import Certificates. If a U.S. International Import Certificate is lost or destroyed, a duplicate copy may be obtained by the person in the U.S. who executed the original U.S. International Import Certificate by submitting to any of the offices listed in paragraph (a)(2)(i) of this supplement new Form BIS–645P/ATF–4522/DSP–53 in the same way as an original request, except that the forms shall be accompanied by a letter detailing the circumstances under which the original certificate was lost or destroyed and certifying:

(A) That the original U.S. International Import Certificate No. _____, dated _____, issued to (name and address of U.S. importer) for import from (foreign exporter's name and address) has been lost or destroyed; and

(B) That if the original U.S. International Import Certificate is found, the applicant agrees to return the original or duplicate of the certificate to the Bureau of Industry and Security.

(ix) Unused U.S. International Import Certificates. If the transaction will not be completed and the U.S. International Import Certificate will not be used, return the certificate for cancellation to BIS at the address listed in paragraph (a)(2)(i) of this supplement.

(b) Delivery Verification Certificate. U.S. importers may be requested by their foreign suppliers to furnish them with a certified Form BIS–647P, Delivery Verification Certificate, covering items imported into the U.S. These requests are made by foreign governments to assure that strategic items shipped to the U.S. are not diverted from their intended destination. In these instances, the issuance of an export license by the foreign country is conditioned upon the subsequent receipt of a Delivery Verification Certificate from the U.S. importer. Accordingly, your compliance with your foreign exporter's request for a Delivery Verification is necessary to ensure your foreign exporter fulfills its government obligations and is able to participate in future transactions with you. Failure to comply may subject your exporter to penalties that may prevent future trade.

(1) The responsibility of a person or firm executing a U.S. International Import Certificate for providing the foreign exporter with confirmation of delivery of the items includes instances where the items are resold or transferred to another U.S. person or firm prior to actual delivery to the U.S. or to an approved foreign destination. The person who executed the U.S. International Import Certificate shall secure in writing from the U.S. purchaser or transferee, and retain in your files in accordance with the recordkeeping provisions stated in part 762 of the EAR:

(i) Acceptance of the obligation to provide the purchaser or transferee with either the Delivery Verification (or other official government confirmation of delivery if a Delivery Verification is unobtainable) or assurance that this document was submitted to BIS; and

(ii) An undertaking that each succeeding U.S. transferee or purchaser will assume the same obligation or assurance. In each case the seller or transferor must transmit to the U.S. purchaser or transferee the U.S. International Import Certificate number covering the export from the foreign country and request that they pass it on to any other U.S. purchasers or transferees.

(2) Completion and certification of Delivery Verification Certificates. If you are requested by your foreign exporter to provide a Delivery Verification, you must obtain Form BIS–647P from a U.S. customs office or one of the offices listed in paragraph (a)(2) of this supplement and complete all blocks (except those below the line titled ''To be completed by U.S. Customs Service'') on the form. The language used in the block titled ''Description of Goods'' must describe the items in the same terms as those shown on the applicable U.S. International Import Certificate. Upon completion Form BIS–647P must be presented, in duplicate, to a U.S. customs office. The U.S. customs office will certify Form BIS–647P only where the import is made under a warehouse or consumption entry.

(3) Disposition of certified Delivery Verification Certificates. The importer must send the original certified Delivery Verification Certificate to the foreign exporter or otherwise dispose of it in accordance with the instructions of the exporting country. The duplicate copy will be retained by the U.S. customs office.

(4)(i) Issuance of a U.S. Delivery Compliance Notice in lieu of a Delivery Verification Certificate. If you are requested to provide a Delivery Verification Certificate but do not wish to disclose the name of your customer to the foreign exporter (e.g., in the event that the items are resold or transferred to another person or firm before the items enter the U.S.), you may submit an originally completed Form BIS–647P together with an explanatory letter requesting a Delivery Compliance Notice, to BIS at the address listed in (a)(2)(i) of this supplement.

(ii) BIS will provide you with a notice signifying that the items were imported into the U.S. and that a satisfactory DV has been submitted to BIS. You must then forward the original notice to your foreign exporter for submission to the foreign government. A copy of the notice should be retained in your files in accordance with the recordkeeping provisions stated in part 762 of the EAR.

(5)(i) Lost or destroyed Delivery Verification Certificate. When a Delivery Verification Certificate is lost or destroyed, the U.S. importer must submit a letter to BIS at the address listed in paragraph (a)(2)(i) of this supplement certifying that:

(A) The original Delivery Verification Certificate has been lost or destroyed;

(B) The circumstances under which it was lost or destroyed;

(C) The type of customs entry (warehouse or consumption), entry number, and date of entry; and

(D) The number and date of the related U.S. International Import Certificate.

(ii) BIS will, in applicable cases, notify the exporting government that a Delivery Verification Certificate been issued.

(c) Penalties and sanctions for violations. The enforcement provisions of part 764 and supplement no. 2 to part 736 of the EAR apply to transactions involving imports into the U.S. covered by this supplement and to both foreign and U.S. parties involved in a violation of this supplement. Any provisions of part 764 and supplement no. 2 to part 736 of the EAR which, by their terms, relate to

''exports'' or ''exports from the U.S.'' are also deemed to apply and extend to imports into the U.S., applications for U.S. International Import Certificates (Forms BIS–645P presented to U.S. Department of Commerce for certification), U.S. International Import Certificates, and Delivery Verification Certificates, described in this supplement. (Applications the documents described in this supplement, are included within the definition of export control documents provided in part 772 of the EAR.) Refer to § 764.3 of the EAR for more information.

[61 FR 12812, Mar. 25, 1996, as amended at 61 FR 64285, Dec. 4, 1996; 62 FR 25463, May 9, 1997; 73 FR 37, Jan. 2, 2008; 78 FR 13470, Feb. 28, 2013]

SUPPLEMENT NO. 6 TO PART 748—AUTHORITIES ISSUING IMPORT CERTIFICATES UNDER THE FIREARMS CONVENTION [RESERVED]

[Status of Convention as of April 13, 1999 had not entered into force.]

[64 FR 17974, Apr. 13, 1999]

SUPPLEMENT NO. 7 TO PART 748—AUTHORIZATION VALIDATED END-USER (VEU): LIST OF VALIDATED END-USERS, RESPECTIVE ITEMS ELIGIBLE FOR EXPORT, REEXPORT AND TRANSFER, AND ELIGIBLE DESTINATIONS

Country	Validated end-user	Eligible items (by ECCN)	Eligible destination	FEDERAL REGISTER citation
Nothing in this Supplement shall be deemed to supersede other provisions in the EAR, including but not limited to § 748.15(c).				
China (People's Republic of).	Advanced Micro Devices China, Inc.	3D002, 3D003, 3E001 (limited to ''technology'' for items classified under 3C002 and 3C004 and ''technology'' for use during the International Technology Roadmap for Semiconductors (ITRS) process for items classified under ECCNs 3B001 and 3B002), 3E002 (limited to ''technology'' for use during the ITRS process for items classified under ECCNs 3B001 and 3B002), 3E003.e (limited to the ''development'' and ''production'' of integrated circuits for commercial applications), 4D001 and 4E001 (limited to the ''development'' of products under ECCN 4A003).	Advanced Micro Devices (Shanghai) Co., Ltd., Buildings 33 (Unit 1), 46, 47, 48 & 49, River Front Harbor, Zhangjiang Hi-Tech Park, No. 1387 Zhang Dong Road, Pudong District, Shanghai, China 201203. AMD Technology Development (Beijing) Co., Ltd., North and South Buildings, RaycomInfotech, Park Tower C, No. 2 Science Institute South Rd., Zhong Guan Cun, Haidian District, Beijing, China 100190. AMD Products (China) Co. Ltd., North and South Buildings, RaycomInfotech Park Tower C, No. 2 Science Institute South Rd., Zhong Guan Cun, Haidian District, Beijing, China 100190.	75 FR 25763, 5/10/10. 76 FR 2802, 1/18/11. 78 FR 3319, 1/16/13. 81 FR 40785, 6/23/16.
	Advanced Micro-Fabrication Equipment, Inc., China.	2B230, 3B001.a.2, and 3B001.e (items classified under ECCNs 3B001.a.2, and 3B001.e are limited to components and accessories).	Advanced Micro-Fabrication Equipment, Inc., 188 Taihua Road, Jinqiao Export Processing Zone (South Area), Pudong, Shanghai 201201, China.	78 FR 41291, 7/10/13. 80 FR 65932, 10/28/15.
	Applied Materials (China), Inc.	*These Items Authorized for those Applied Materials Destinations Identified by one asterisk (*):*, 2B006.b, 2B230, 2B350.g.3, 2B350.i, 3B001.a, 3B001.b, 3B001.e, 3B001.f, 3C001, 3C002, 3D002 (limited to ''software'' specially designed for the ''use'' of stored program controlled items classified under ECCN 3B001).	* Applied Materials South East Asia Pte. Ltd.—Shanghai Depot, c/o Shanghai Applied Materials Technical Service Center, No. 2667 Zuchongzhi Road, Shanghai, China 201203. * Applied Materials South East Asia Pte. Ltd.—Beijing Depot, c/o Beijing Applied Materials Technical Service Center, No. 1 North Di Sheng Street, BDA, Beijing, China 100176.	72 FR 59164, 10/19/07. 74 FR 19382, 4/29/09. 75 FR 27185, 5/14/10. 77 FR 10953, 2/24/12. 80 FR 65932, 10/28/15.

Country	Validated end-user	Eligible items (by ECCN)	Eligible destination	FEDERAL REGISTER citation
			* Applied Materials South East Asia Pte. Ltd.—Wuxi Depot, c/o Sinotrans Jiangsu Fuchang Logistics Co., Ltd., 1 Xi Qin Road, Wuxi Export Processing Zone, Wuxi, Jiangsu, China 214028. * Applied Materials South East Asia Pte. Ltd.—Wuhan Depot, c/o Wuhan Optics Valley Import & Export Co., Ltd., No. 101 Guanggu Road, East Lake High-Tec Development Zone, Wuhan, Hubei, China 430074. * Applied Materials (China), Inc.—Shanghai Depot, No. 2667, Zuchongzhi Road, Shanghai, China 201203. * Applied Materials (China), Inc.—Beijing Depot, No. 1 North Di Sheng Street, BDA, Beijing, China 100176.	
		These Items Authorized for the Applied Materials Destination Identified by two asterisks (**): 2B006.b, 2B230, 2B350.g.3, 2B350.i, 3B001.a, 3B001.b, 3B001.e, 3B001.f, 3C001, 3C002, 3D002 (limited to ''software'' specially designed for the ''use'' of stored program controlled items classified under ECCN 3B001), and 3E001 (limited to ''technology'' according to the General Technology Note for the ''development'' or ''production'' of items controlled by ECCN 3B001).	** Applied Materials (Xi'an) Ltd., No. 28 Xin Xi Ave., Xi'an High Tech Park, Export Processing Zone, Xi'an, Shaanxi, China 710075.	
		This item is authorized for those Applied Materials Destination Identified by three asterisks (***): 3E001 (limited to ''technology'' according to the General Technology Note for the ''development'' or ''production'' of items controlled by ECCN 3B001).	*** Applied Materials (China), Inc.—Headquarters, 1388 Zhangdong Road, Bldg. 22, Zhangjiang Hi-Tech Park, Pudong, Shanghai, 201203, China.	
	Boeing Tianjin Composites Co. Ltd.	1B001.f, 1D001 (limited to ''software'' specially designed or modified for the ''use'' of equipment controlled by 1B001.f), 2B001.b.2 (limited to machine tools with accuracies no better than (*i.e.,* not less than) 13 microns), 2D001 (limited to ''software,'' other than that controlled by 2D002, specially designed or modified for the ''use'' of equipment controlled by 2B001.b.2), and 2D002 (limited to ''software'' for electronic devices, even when residing in an electronic device or system, enabling such devices or systems to function as a ''numerical control'' unit, capable of coordinating simultaneously more than 4 axes for ''contouring control'' controlled by 2B001.b.2).	Boeing Tianjin Composites Co. Ltd., 4566 Hebei Road, Marine Hi-Tech Development Area, Tanggu District, Tianjin, China 300451.	72 FR 59164, 10/19/07. 74 FR 19382, 4/29/09. 77 FR 10953, 2/24/12. 77 FR 40258, 7/9/12. 81 FR 61106, 9/6/16.

Country	Validated end-user	Eligible items (by ECCN)	Eligible destination	FEDERAL REGISTER citation
	CSMC Technologies Corporation.	1C350.c.3, 1C350.c.11, 2B230.a, 2B230.b, 2B350.f, 2B350.g, 2B350.h, 3B001.e. 3B001.h (except for multilayer masks with a phase shift layer designed to produce ''space qualified'' semiconductor devices), 3C002.a, and 3C004.	CSMC Technologies Fab 1 Co., Ltd., 14 Liangxi Road, Wuxi, Jiangsu 214061, China. CSMC Technologies Fab 2 Co., Ltd., 8 Xinzhou Rd. Wuxi National New Hi-Tech Industrial Development Zone, Wuxi, Jiangsu 214028, China.	76 FR 2802, 1/18/11. 76 FR 37634, 6/28/11. 77 FR 10953, 2/24/12. 78 FR 23472, 4/19/13. 78 FR 78 FR 32984, 6/3/13.
	Intel Semiconductor (Dalian) Ltd.	*These items authorized for the Intel destination identified by one asterisk (*):* 1A004, 1C006.d, 2A226, 2B006.b, 2B230, 2B231, 2B350, 3A233.a, 3B001 (except for multilayer masks with a phase shift layer designed to produce ''space qualified'' semiconductor devices), 3C002, 3E002 (excluding development and production technology specific to digital signal processors and digital array processors and further limited to ''technology'' based on the international technology roadmap for semiconductors (ITRS)), and 4E001(limited to technology for computer products or components not exceeding an adjusted peak performance (APP) level of 12.0 weighted teraflops). *These items authorized for the Intel destination identified by two asterisks (**):* 1A004, 1C006.d, 2A226, 2B006.b, 2B230, 2B231, 2B350, 3A233.a, 3B001 (except for multilayer masks with a phase shift layer designed to produce ''space qualified'' semiconductor devices), and 3C002.	*Intel Semiconductor (Dalian) Ltd., No. 109 Huai He Road East, Dalian Economic and Technology Development Area, Dalian, Liao Ning Province, 116600, China. ** Intel Semiconductor (Dalian) Ltd., c/o Dalian Kintetsu Logistics Co., Ltd, Dayaowan Bonded Port No. 6 Road W4 Unit A1, Dalian Economic and Technology Development Area, Dalian, Liao Ning Province, 116601, China.	78 FR 54754, 9/6/13. 81 FR 85145, 11/25/16.

Country	Validated end-user	Eligible items (by ECCN)	Eligible destination	FEDERAL REGISTER citation
	Lam Research Service Co., Ltd.	*These Items Authorized for those Lam's Destinations Identified by a single asterisk (*):* 2B230, 2B350.c, 2B350.d, 2B350.g, 2B350.h, 2B350.i, and 3B001.e (items classified under ECCNs and 3B001.e are limited to ''specially designed'' components and accessories), 3D001 (limited to ''software'' (excluding source code) ''specially designed'' for the ''development'' or ''production'' of equipment controlled by ECCN 3B001), 3D002 (limited to ''software'' (excluding source code) ''specially designed'' for the ''use'' of equipment controlled by ECCN 3B001), and 3E001 (limited to ''technology'' according to the General Technology Note for the ''development'' of equipment controlled by ECCN 3B001).	*Lam Research International Sarl (Lam Shanghai Warehouse), c/o HMG Supply Chain (Shanghai) Co., Ltd., No. 3869, Longdong Avenue, Pudong New District, Shanghai, China 201203. *Lam Research International Sarl (Lam Shanghai Warehouse; WGQ Bonded Warehouse), c/o HMG Supply Chain (Shanghai) Co., Ltd., No. 55, Fei la Road, Waigaoqiao Free Trade Zone, Pudong New Area, Shanghai, China 200131. *Lam Research International Sarl (Lam Beijing Warehouse), c/o Beijing Lam Electronics Tech Center, 1 Building, No. 28, Jinghai Second Road, BDA, Beijing, China 100176. *Lam Research International Sarl (Wuxi EPZ Bonded Warehouse), c/o HMG WHL Logistic (Wuxi) Co., Ltd., 1st Fl, Area 4, No. 1, Plot J3, No. 5 Gaolang East Road, Export Processing Zone, Wuxi, China 214028. *Lam Research International Sarl (Lam Beijing Warehouse), c/o HMG Hi-tech Logistics (Beijing) Co., Ltd., Building 3, No. 9 Ke Chuang Er Street, Beijing Economic Technological Development Area, Beijing, China 100176. *Lam Research International Sarl (Wuhan TSS), c/o HMG Wuhan Logistic Co., Ltd., 1st-2nd Floor, Area B, No. 5 Building, Hua Shi Yuan Er Road, Eastlake Hi-Tech Development Zone, Wuhan, Hubei Province, China 430223. *Lam Research International Sarl (Lam Shanghai Warehouse Operator), c/o Shanghai Wellwin Logistics Co., Ltd., No. 2667 Zuchongzhi Road, Pudong New District, Shanghai, China. *Lam Research International Sarl (Lam Beijing Warehouse), c/o China International Electronic Service Company, 1 Building, No. 28, Jinghai Second Road, BDA, Beijing, China 100176. *Lam Research International Sarl (Lam Beijing Warehouse), c/o Beijing STE International Logistics Co., Ltd., Building 3, No. 9 Ke Chuang Er Street, Beijing Economic & Technological Development Area, Beijing, China 100176. *Lam Research International Sarl (Lam Dalian Warehouse), c/o JD Logistics Dalian bonded logistic Co., Ltd., No. 1 Public Warehouse, Dalian Bonded Logistics Zone, Dalian, China 116600.	75 FR 62462, 10/12/10. 77 FR 10953, 2/24/12. 78 FR 3319, 1/16/13. 78 FR 54752, 9/6/13. 79 FR 71016, 12/1/14.

Country	Validated end-user	Eligible items (by ECCN)	Eligible destination	FEDERAL REGISTER citation
		These Items Authorized for those Lam's Destinations Identified by two asterisks (**): 2B230, 2B350.c, 2B350.d, 2B350.g, 2B350.h, 2B350.i, and 3B001.e (items classified under ECCNs and 3B001.e are limited to ''specially designed'' components and accessories), 3D001 (limited to ''software'' (excluding source code) ''specially designed'' for the ''development'' or ''production'' of equipment controlled by ECCN 3B001), 3D002 (limited to ''software'' (excluding source code) ''specially designed'' for the ''use'' of equipment controlled by ECCN 3B001), and 3E001 (limited to ''technology'' according to the General Technology Note for the ''development'' or ''production'' (limited to those stages that support integration, assembly (mounting), inspection, testing, and quality assurance) of equipment controlled by ECCN 3B001).	*Lam Research International Sarl (Lam Xi'an Warehouse), c/o VR International Logistics (Xi'an) Co., Ltd., No. 28 Information Road, EPZ B Zone, Xian New District, Xian, China 710119. *Lam Research International Sarl (Wuxi Bonded Warehouse for CIQ inspection), c/o SinoTrans Jiangsu Fuchang Logistics Co., Ltd., No. 1 Xiqin Road, Area A, Export Processing Zone, New District, Wuxi, China 214028. **Lam Research Service Co., Ltd., 1st Floor, Area C, Hua Hong Science & Technology Park, 177 Bi Bo Road, Zhangjiang Hi-Tech Park, Pudong, Shanghai, China 201203. **Lam Research Service Co., Ltd. Beijing Branch, 6th Floor, Building 52, No. 2, Jingyuan North Street, Beijing Economic & Technological Development Area, Beijing, China 100176. **Lam Research Service Co., Ltd., Wuxi Representative Office, Room 302, Building 6, Singapore International Park, No. 89 Xing Chuang Si Road, Wuxi New District, Wuxi, Jiangsu, China 214028. **Lam Research Service Co., Ltd., Wuhan Representative Office, Room 302, Guanggu Software Park, Building E4, No. 1 Guanshan Road, Donghu Development Zone, Wuhan, Hubei Province, China 430074. **Lam Research Service Co., Ltd. (Lam Dalian Representative Office), c/o Intel Semiconductor (Dalian) Ltd., No. 109 Huaihe Road East, Dalian Economic & Technical Development Area, Dalian, China 116600. **Lam Research Service (Shanghai) Co., Ltd. Xi'an Branch, Room 602, Building G, Wangzuo Xiandai City, 35 Tangyan Road, Gaoxin District, Xi'an, China, 710065	
	Samsung China Semi conductor Co. Ltd.	1C350.c.3, 1C350.d.7, 2B006.a, 2B006.b.1.d, 2B230, 2B350.d.2, 2B350.g.3, 2B350.i.3, 3A233, 3B001.a.1, 3B001.b, 3B001.e, 3B001.f, 3B001.h, 3C002, 3C004, 3D002, and 3E001 (limited to ''technology'' for items classified under 3C002 and 3C004 and ''technology'' for use consistent with the International Technology Roadmap for Semiconductors process for items classified under ECCNs 3B001 and 3B002).	Samsung China Semiconductor Co. Ltd. No. 1999, North Xiaohe Road Xi'an, China 710119.	78 FR 41291, 7/10/13. 78 FR 69535, 11/20/13. 79 FR 30713, 5/29/14. 80 FR 11864, 3/5/15.

Country	Validated end-user	Eligible items (by ECCN)	Eligible destination	FEDERAL REGISTER citation
	Shanghai Huahong Grace Semiconductor Manufacturing Corporation.	1C350.c.3, 1C350.d.7, 2B230, 2B350.d.2, 2B350.g.3, 2B350.i.4, 3B001.a.1, 3B001.b, 3B001.e, 3B001.f, 3B001.h, 3C002, 3C004, 5B002, and 5E002 (controlled by ECCNs 5A002, 5A004, or 5A992 that have been successfully reviewed under the encryption review process specified in Sections 740.17(b)(2) or 740.17(b)(3) of the EAR).	Shanghai Huahong Grace Semiconductor Manufacturing Corporation—HFab 2, 668 Guoshoujing Road, Zhangjiang Hi-Tech Park, Shanghai 201203 China. Shanghai Huahong Grace Semiconductor Manufacturing Corporation—HFab 1, 1188 Chuanqiao Road, Pudong, Shanghai 201206 China. Shanghai Huahong Grace Semiconductor Manufacturing Corporation—GFab1, 1399 Zuchongzhi Road, Zhangjiang Hi-Tech Park, Shanghai 201203 China.	78 FR 78 FR 32984, 6/3/13.
	SK hynix Semiconductor (China) Ltd.	3B001.a, 3B001.b, 3B001.e, and 3B001.f.	SK hynix Semiconductor (China) Ltd., Lot K7, Wuxi High-tech Zone, Comprehensive Bonded Zone, Wuxi New District, Jiangsu Province, China 214028.	75 FR 62462, 10/12/10. 77 FR 40258, 7/9/12. 78 FR 3319, 1/16/13. 78 FR 69537, 11/20/2013.
	SK hynix Semiconductor (Wuxi) Ltd.	3B001.a, 3B001.b, 3B001.e, and 3B001.f.	SK hynix Semiconductor (Wuxi) Ltd., Lot K7–1, Wuxi High-tech Zone, Comprehensive Bonded Zone, Wuxi New District, Jiangsu Province, China 214028.	75 FR 62462, 10/12/10. 77 FR 40258, 7/9/12. 78 FR 3319, 1/16/13. 78 FR 69537, 11/20/2013.
India	GE India Industrial Pvt Ltd..	1C002.a.1, 1C002.a.2, 1C002.b.1.a, 1C002.b.1.b, 1E001, 2E003.f, 9E003.a.1, 9E003.a.2, 9E003.a.4, 9E003.a.5, 9E003.a.6, 9E003.a.8, and 9E003.c.	GE India Technology Centre Private Limited (GEITC), No. 122, EPIP, Phase II, Hoodi Village, Whitefield Road, Bangalore 560066, Karnataka, India. Bangalore Engineering Center (BEC), c/o GE India Technology Centre Private Limited (GEITC), No. 122, EPIP, Phase II, Hoodi Village, Whitefield Road, Bangalore 560066, Karnataka, India.	74 FR 31620, 7/2/09. 74 FR 68147, 12/23/09. 77 FR 10953, 2/24/12.

[78 FR 32984, June 3, 2013, as amended at 78 FR 41293, July 10, 2013; 78 FR 54754, Sept. 6, 2013; 78 FR 69537, Nov. 20, 2013; 79 FR 30715, May 29, 2014; 79 FR 32626, June 5, 2014; 79 FR 34222, June 16, 2014; 79 FR 71016, Dec. 1, 2014; 80 FR 11864, Mar. 5, 2015; 80 FR 65932, Oct. 28, 2015; 81 FR 40785, June 23, 2016; 81 FR 61106, Sept. 6, 2016; 81 FR 64677, Sept. 20, 2016; 81 FR 85145, Nov. 25, 2016; 81 FR 87427, Dec. 5, 2016]

SUPPLEMENT NO. 8 TO PART 748—INFORMATION REQUIRED IN REQUESTS FOR VALIDATED END-USER (VEU) AUTHORIZATION

VEU authorization applicants must provide to BIS certain information about the prospective validated end-user. This information must be included in requests for authorization submitted by prospective validated end-users, or exporters or reexporters who seek to have certain entities approved as validated end-users. BIS may, in the course of its evaluation, request additional information.

Required Information for Validated End-User Authorization Requests

(1) Name of proposed VEU candidates, including all names under which the candidate conducts business; complete company physical address (simply listing a post office box is insufficient); telephone number; fax number; e-mail address; company Web site (if available); and name of individual who

should be contacted if BIS has any questions. If the entity submitting the application is different from the prospective validated end-user identified in the application, this information must be submitted for both entities. If the candidate has multiple locations, all physical addresses located in the eligible destination must be listed.

(2) Provide an overview of the structure, ownership and business of the prospective validated end-user. Include a description of the entity, including type of business activity, ownership, subsidiaries, and joint-venture projects, as well as an overview of any business activity or corporate relationship that the entity has with either government or military organizations.

(3) List the items proposed for VEU authorization approval and their intended end-uses. Include a description of the items; the ECCN for all items, classified to the subparagraph level, as appropriate; technical parameters for the items including performance specifications; and end-use description for the items. If BIS has previously classified the item, the Commodity Classification Automated Tracking System (CCATS) number may be provided in lieu of the information listed in the foregoing provisions of this paragraph.

(4) Provide the physical address(es) of the location(s) where the item(s) will be used, if this address is different from the address of the prospective validated end-user provided in paragraph (1) of this supplement.

(5) If the prospective validated end-user plans to reexport or transfer the item, specify the destination to which the items will be reexported or transferred.

(6) Specify how the prospective validated end-user's record keeping system will allow compliance with the recordkeeping requirements set forth in §748.15(e) of the EAR. Describe the system that is in place to ensure compliance with VEU requirements.

(7) Include an original statement on letterhead of the prospective validated end-user, signed and dated by a person who has authority to legally bind the prospective validated end-user, certifying that the end-user will comply with all VEU requirements. This statement must include acknowledgement that the prospective end-user:

(i) Has been informed of and understands that the item(s) it may receive as a validated end-user will have been exported in accordance with the EAR and that use or diversion of such items contrary to the EAR is prohibited;

(ii) Understands and will abide by all authorization VEU end-use restrictions, including the requirement that items received under authorization VEU will only be used for civil end-uses and may not be used for any activities described in part 744 of the EAR;

(iii) Will comply with VEU recordkeeping requirements; and

(iv) Agrees to allow on-site reviews by U.S. Government officials to verify the end-user's compliance with the conditions of the VEU authorization.

[72 FR 33661, June 19, 2007]

SUPPLEMENT NO. 9 TO PART 748—END-USER REVIEW COMMITTEE PROCEDURES

(1) The End-User Review Committee (ERC), composed of representatives of the Departments of State, Defense, Energy, and Commerce, and other agencies, as appropriate, is responsible for determining whether to add to, to remove from, or otherwise amend the list of validated end-users and associated eligible items set forth in supplement no. 7 to this part. The Department of Commerce chairs the ERC.

(2) Unanimous vote of the Committee is required to authorize VEU status for a candidate or to add any eligible items to a pre-existing authorization. Majority vote of the Committee is required to remove VEU authorization or to remove eligible items from a pre-existing authorization.

(3) In addition to requests submitted pursuant to §748.15, the ERC will also consider candidates for VEU authorization that are identified by the U.S. Government. When the U.S. Government identifies a candidate for VEU authorization, relevant parties (*i.e.*, end-users and exporters or reexporters, when they can be identified) will be notified, before the ERC determines whether VEU authorization is appropriate, as to which end-users have been identified as potential VEU authorization candidates. End-users are not obligated to accept the Government's nomination.

(4) The ERC will make determinations whether to grant VEU authorization to each VEU candidate no later than 30 calendar days after the candidate's complete application is circulated to all ERC agencies. The Committee may request additional information from an applicant or potential validated end-user related to a particular VEU candidate's application. The period during which the ERC is waiting for additional information from an applicant or potential validated end-user is not included in calculating the 30 calendar day deadline for the ERC's determination.

(5) If an ERC agency is not satisfied with the decision of the ERC, that agency may escalate the matter to the Advisory Committee on Export Policy (ACEP). The procedures and time frame for escalating any such matters are the same as those specified for license applications in Executive Order 12981, as amended by Executive Orders 13020, 13026 and 13117 and referenced in §750.4 of the EAR.

(6) A final determination at the appropriate decision-making level to amend the VEU authorization list set forth in supplement no. 7 to this part operates as clearance by all member agencies to publish the amendment in the FEDERAL REGISTER.

(7) The Deputy Assistant Secretary of Commerce for Export Administration will communicate the determination on each VEU request to the requesting party and the end-user.

[72 FR 33662, June 19, 2007]

PART 750—APPLICATION PROCESSING, ISSUANCE, AND DENIAL

Sec.
750.1 Scope.
750.2 Processing of Classification Requests and Advisory Opinions.
750.3 Review of license applications by BIS and other government agencies and departments.
750.4 Procedures for processing license applications.
750.5 [Reserved]
750.6 Denial of license applications.
750.7 Issuance of licenses.
750.8 Revocation or suspension of licenses.
750.9 Duplicate licenses.
750.10 Transfer of licenses for exports.
750.11 Shipping tolerances.

AUTHORITY: 50 U.S.C. 4601 *et seq.;* 50 U.S.C. 1701 *et seq.;* Sec. 1503, Pub. L. 108–11, 117 Stat. 559; E.O. 13026, 61 FR 58767, 3 CFR, 1996 Comp., p. 228; E.O. 13222, 66 FR 44025, 3 CFR, 2001 Comp., p. 783; E.O. 13637, 78 FR 16129, 3 CFR, 2013 Comp., p. 223; Presidential Determination 2003–23, 68 FR 26459, 3 CFR, 2004 Comp., p. 320; Notice of August 4, 2016, 81 FR 52587 (August 8, 2016).

SOURCE: 61 FR 12829, Mar. 25, 1996, unless otherwise noted.

§ 750.1 Scope.

In this part, references to the EAR are references to 15 CFR chapter VII, subchapter C. This part describes the Bureau of Industry and Security's (BIS) process for reviewing your application for a license and the applicable processing times for various types of applications. Information related to the issuance, denial, revocation, or suspension of a license or license application is provided along with the procedures on obtaining a duplicate or replacement license, the transfer of a license and shipping tolerances available on licenses. This part also contains instructions on obtaining the status of any pending application.

[62 FR 25463, May 9, 1997]

§ 750.2 Processing of Classification Requests and Advisory Opinions.

(a) *Classification requests.* All classification requests submitted in accordance with procedures described in § 748.3 (a) and (b) of the EAR will be answered within 14 calendar days after receipt. All responses will inform the person of the proper classification (e.g., whether or not the item is subject to the Export Administration Regulations (EAR) and, if applicable, the appropriate Export Control Classification Number [ECCN]).

(b) *Advisory Opinion requests.* All advisory opinions submitted in accordance with procedures described in § 748.3(a) and (c) of the EAR will be answered within 30 calendar days after receipt. Requests to obtain Validated End-User authorization will be resolved within 30 calendar days as described in supplement no. 9 to Part 748 of the EAR.

[61 FR 12829, Mar. 25, 1996, as amended at 72 FR 33662, June 19, 2007]

§ 750.3 Review of license applications by BIS and other government agencies and departments.

(a) *Review by BIS.* In reviewing specific license applications, BIS will conduct a complete analysis of the license application along with all documentation submitted in support of the application. In addition to reviewing the item and end-use, BIS will consider the reliability of each party to the transaction and review any available intelligence information. To the maximum extent possible, BIS will make licensing decisions without referral of license applications to other agencies, however, BIS may consult with other U.S. departments and agencies regarding any license application.

(b) *Review by other departments or agencies.* (1) The Departments of Defense, Energy, State, and the Arms Control and Disarmament Agency (ACDA) have the authority to review any license application submitted under the EAR. In addition, BIS may, where appropriate, refer license applications to other U.S. government departments or agencies. These agencies

and departments will be referred to as ''agencies'' for the purposes of this part. Though these agencies have the authority to review any license application, they may determine that they do not need to review certain types of license applications. In these instances, the agency will provide BIS with a Delegation of Authority to process those license applications without review by that particular agency.

(2) The Departments of Defense, Energy, State, and ACDA are generally concerned with license applications involving items controlled for national security, missile technology, nuclear nonproliferation, and chemical and biological weapons proliferation reasons or destined for countries and/or end uses of concern. In particular, these agencies are concerned with reviewing license applications as follows:

(i) The Department of Defense is concerned primarily with items controlled for national security and regional stability reasons and with controls related to encryption items;

(ii) The Department of Energy is concerned primarily with items controlled for nuclear nonproliferation reasons;

(iii) The Department of State is concerned primarily with items controlled for national security, nuclear nonproliferation, missile technology, regional stability, anti-terrorism, crime control reasons, and sanctions; and

(iv) The Department of Justice is concerned with controls relating to encryption items and items primarily useful for the surreptitious interception of wire, oral, or electronic communications.

[61 FR 12829, Mar. 25, 1996, as amended at 61 FR 68585, Dec. 30, 1996; 63 FR 50525, Sept. 22, 1998; 71 FR 67036, Nov. 20, 2006; 73 FR 57509, Oct. 3, 2008]

§ 750.4 Procedures for processing license applications.

(a) *Overview*. (1) All license applications will be resolved or referred to the President no later than 90 calendar days from the date of BIS's registration of the license application. Processing times for the purposes of this section are defined in calendar days. The procedures and time limits described in this part apply to all license applications registered on or after February 4, 1996. The procedures and time limits in effect prior to December 6, 1995 will apply to license applications registered prior to February 4, 1996.

(2) Properly completed license applications will be registered promptly upon receipt by BIS. Registration is defined as the point at which the application is entered into BIS's electronic license processing system. If your application contains deficiencies that prevent BIS from registering your application, BIS will attempt to contact you to correct the deficiencies, however, if BIS is unable to contact you, the license application will be returned without being registered. The specific deficiencies requiring return will be enumerated in a notice accompanying the returned license application. If a license application is registered, but BIS is unable to correct deficiencies crucial to processing the license application, it will be returned without action. The notice will identify the deficiencies and the action necessary to correct the deficiencies. If you decide to resubmit the license application, it will be treated as a new license application when calculating license processing time frames.

(b) *Actions not included in processing time calculations*. The following actions will not be counted in the time period calculations described in paragraph (a)(1) of this section for the processing of license applications:

(1) *Agreement by the applicant to the delay*. BIS may request applicants to provide additional information in support of their license application, respond to questions arising during processing, or accept proposed conditions or riders on their license application. If BIS has provided the applicant with an intent to deny letter described in § 750.6 of this part, processing times may be suspended in order to negotiate modifications to a license application and obtain agreement to such modifications from the foreign parties to the license application.

(2) *Pre-license checks*. If a pre-license check, to establish the identity and reliability of the recipient of the controlled items, is conducted through government channels, provided that:

(i) The need for such a pre-license check is established by the Secretary,

or by another agency, if the request for a pre-license check is made by such agency and the request is made in accordance with the following time frames;

(A) The pre-license check is requested within 5 days of the determination that it is necessary; and

(B) The analysis resulting from the pre-license check is completed within 5 days.

(3) *Government-to-Government assurances.* Requests for government-to-government assurances of suitable end-use of items approved for export or reexport when failure to obtain such assurances would result in rejection of the license application, provided that:

(i) The request for such assurances is sent to the Secretary of State within five days of the determination that the assurances are required;

(ii) The Secretary of State initiates the request of the relevant government within 10 days of receipt of the request for such assurances; and

(iii) The license is issued within 5 days of the Secretary's receipt of the requested assurances.

(4) *Consultations.* Consultation with other governments, if such consultation is provided for by a relevant bilateral arrangement or multilateral regime as a precondition for approving a license.

(5) *Multilateral reviews.* Multilateral review of a license application if such review is required by the relevant multilateral regime.

(6) *Congressional notification.* Under Section 6(j) of the Export Administration Act, as amended (EAA), the Secretaries of Commerce and State are required to notify appropriate Committees of the Congress 30 days prior to issuing a license to any country designated by the Secretary of State as being terrorist-supporting for any items that could make a significant contribution to the military potential of such countries, or could enhance the ability of such countries to support acts of international terrorism. Accordingly, the issuance of any license subject to this requirement will be delayed for 30 days.

(i) *Designated countries.* The following countries have been designated by the Secretary of State as terrorist-supporting countries: Iran, North Korea, Sudan, and Syria.

(ii) *Items subject to notification requirement.* License applications involving the export or reexport of the following items to the military, police, intelligence or other sensitive end-users are subject to this notification requirement:

(A) All items controlled for national security reasons;

(B) All items controlled for chemical and biological weapons proliferation reasons;

(C) All items controlled for missile technology reasons;

(D) All items controlled for nuclear nonproliferation reasons; and

(E) All items controlled by the CCL where the entry heading identifies the items controlled as those contained in the Wassenaar Arrangement Munitions List.

(iii) *Additional notifications.* The Secretaries of Commerce and State must also notify the appropriate Congressional committees 30 days before a license is issued for the export or reexport of any item controlled on the CCL to a designated country if the Secretary of State determines that the export or reexport ''could make a significant contribution to the military potential of such country, including its military logistics capability, or could enhance the ability of such country to support acts of international terrorism.''

(7) *Congressional notification.* Congressional notification, including any consultations prior to notification, prior to the issuance of an authorization to export when notification is required by § 743.5 of the EAR.

(c) *Initial processing.* Within 9 days of license application registration, BIS will, as appropriate:

(1) Contact the applicant if additional information is required, if the license application is improperly completed, or required support documents are missing, to request additional or corrected information;

(2) Assure the stated classification on the license application is correct;

(3) Return the license application if a license is not required with a statement notifying the applicant that a license is not required;

(4) Approve the license application or notify the applicant of the intent to deny the license application; or

(5) Refer the license application electronically along with all necessary recommendations and analysis concurrently to all agencies unless the application is subject to a Delegation of Authority. Any relevant information not contained in the electronic file will be simultaneously forwarded in paper copy.

(d) *Review by other agencies and/or interagency groups*. (1) Within 10 days of receipt of a referral the reviewing agency must advise BIS of any information not contained in the referral as described in paragraph (c)(5) of this section. BIS will promptly request such information from the applicant. The time that elapses between the date the information is requested by the reviewing agency and the date the information is received by the reviewing agency will not be counted in processing time frames.

(2) Within 30 days of receipt of the initial referral, the reviewing agency will provide BIS with a recommendation either to approve (with or without conditions or riders) or deny the license application. As appropriate, such a recommendation may be made with the benefit of consultation and/or discussions in interagency groups established to provide expertise and coordinate interagency consultation. These interagency groups consist of:

(i) *The Missile Technology Export Control Group (MTEC)*. The MTEC, chaired by the Department of State, reviews license applications involving items controlled for missile technology reasons. The MTEC also reviews license applications involving items not controlled for missile technology (MT) reasons, but destined for a country and/or end-use/end-user of MT concern.

(ii) *The SubGroup on Nuclear Export Coordination (SNEC)*. The SNEC, chaired by the Department of State, reviews license applications involving items controlled for nuclear nonproliferation reasons. The SNEC also reviews license applications involving items not controlled for nuclear nonproliferation (NP) reasons, but destined for a country and/or end-use/end-user of NP concern.

(iii) *The Shield*. The Shield, chaired by the Department of State, reviews license applications involving items controlled for chemical and biological weapons reasons. The Shield also reviews license applications involving items not controlled for chemical and biological weapons (CBW) reasons, but destined for a country and/or end-use/end-user of CBW concern.

(e) *Recommendations by reviewing agencies*. Reviewing agencies recommending denial of a license application must provide a statement of reasons, consistent with the provisions of the EAA or EAR, and cite both the statutory and the regulatory basis for the recommendation to deny. A reviewing agency that fails to provide a recommendation within 30 days with a statement of reasons supported by the statutory and regulatory basis shall be deemed to have no objection to the final decision of BIS.

(f) *Interagency dispute resolution and escalation procedures*—(1) *Escalation to the Operating Committee (OC)*. (i) In any instance where the reviewing agencies are not in agreement on final disposition of a license application, it will be escalated to the OC for resolution. The Chair of the OC will consider the recommendations of the reviewing agencies and any information provided by the applicant in person during an open OC session. Each agency will be informed of the Chair's decision on the license application within 14 days after the deadline for receiving agency recommendations.

(ii) If any agency disagrees with the OC Chair's decision, the agency may escalate the decision by appealing to the Chair of the Advisory Committee on Export Policy for resolution. If such a request for escalation is not made within 5 days of the decision of the OC Chair, the Chair's decision will be final.

(2) *Escalation to the Advisory Committee on Export Policy (ACEP)*. Requests for escalation to the ACEP must be in writing from an official appointed by the President with the advice and consent of the Senate, or a person properly acting in such capacity, and cite both the statutory and the regulatory basis for the appeal. The ACEP will review all relevant information

and recommendations. The Chair of the ACEP will inform the reviewing agencies of the majority vote decision of the ACEP within 11 days from the date of receipt of the escalation request. Within 5 days of the decision, any dissenting agency may appeal in writing the ACEP's decision to the Secretary of Commerce in the Secretary's capacity as the Chair of the Export Administration Review Board. The written request must be made by the head of the agency requesting escalation and cite both the statutory and the regulatory basis for the appeal. Within the same period of time, the Secretary may initiate a meeting on his or her own initiative to consider a license application. In the absence of a timely appeal, the decision of the ACEP will be final.

(3) *Escalation to the Export Administration Review Board (EARB).* The EARB will review all relevant information and recommendations, and such other export control matters as may be appropriate. The Secretary of Commerce will inform the reviewing agencies of the majority vote decision of the EARB within 11 days from the date of receipt of the appeal. Within 5 days of the decision, any agency dissenting from the decision of the EARB may appeal the decision to the President. The appeal must be in writing from the head of the dissenting agency. In the absence of a timely appeal, the decision of the EARB will be final.

[61 FR 12829, Mar. 25, 1996, as amended at 62 FR 25463, May 9, 1997; 69 FR 46079, July 30, 2004; 71 FR 20887, Apr. 24, 2006; 71 FR 51719, Aug. 31, 2006; 72 FR 43532, Aug. 6, 2007; 78 FR 22725, Apr. 16, 2013; 80 FR 43319, July 22, 2015]

§ 750.5 [Reserved]

§ 750.6 Denial of license applications.

(a) *Intent to deny notification.* If BIS intends to deny your license application, BIS will notify you in writing within 5 days of the decision. The notification will include:

(1) The intent to deny decision;

(2) The statutory and regulatory basis for the denial;

(3) To the extent consistent with the national security and foreign policy of the United States, the specific considerations that led to the decision to deny the license application;

(4) What, if any, modifications or restrictions to the license application would allow BIS to reconsider the license application;

(5) The name of the BIS representative in a position to discuss the issues with the applicant; and

(6) The availability of appeal procedures.

(b) *Response to intent to deny notification.* You will be allowed 20 days from the date of the notification to respond to the decision before the license application is denied. If you respond to the notification, BIS will advise you if, as a result of your response, the decision to deny has been changed. Unless you are so advised by the 45th day after the date of the notification, the denial will become final, without further notice. You will then have 45 days from the date of final denial to exercise the right to appeal under part 756 of the EAR.

§ 750.7 Issuance of licenses.

(a) *Scope.* Unless limited by a condition set out in a license, the export, reexport, or transfer (in-country) authorized by a license is for the item(s), end-use(s), and parties described in the license application and any letters of explanation. The applicant must inform the other parties identified on the license, such as the ultimate consignees and end users, of the license's scope and of the specific conditions applicable to them. BIS grants licenses in reliance on representations the applicant made in or submitted in connection with the license application, letters of explanation, and other documents submitted. A BIS license authorizing the release of ''technology'' to an entity also authorizes the release of the same ''technology'' to the entity's foreign persons who are permanent and regular employees (and who are not proscribed persons) of the entity's facility or facilities authorized on the license, except to the extent a license condition limits or prohibits the release of the ''technology'' to foreign persons of specific countries or country groups.

(b) *Issuance of a license.* BIS may issue a license electronically via its Simplified Network Application Processing (SNAP–R) system or via paper or both electronically and via paper.

Each license has a license number that will be shown on the license.

(c) *Changes to the license.* (1) The following non-material changes do not require submission of a ''Replacement'' license or any other notification to BIS. (If you wish to make any change not identified in this paragraph, you will need to submit a ''Replacement'' license in accordance with the instructions contained in supplement no. 1 to part 748 of the EAR, Block 11):

(i) Decrease in unit price or total value;

(ii) Increase in price if permitted under the shipping tolerances in § 750.11 of this part;

(iii) Increase in price that can be justified on the basis of changes in point of delivery, port of export, or as a result of transportation cost, drayage, port charges, warehousing, currency fluctuations, etc.;

(iv) Establishment of unit or total price in conformance with a ''price statement'' on a license that permits price to be based on the market price at a specified date plus an exporter's mark-up, or like basis;

(v) Change in intermediate consignee if the new intermediate consignee is located in the country of ultimate destination as shown on the license, except a change in, or addition of, an intermediate consignee involving a consolidated shipment;

(vi) Change in continuity of shipment by unloading from carrier at a country listed in Country Group B (see supplement no. 1 to part 740 of the EAR) port not in the country of ultimate destination, without the designation of an intermediate consignee on the shipping documents and license, provided:

(A) The purpose is to transfer the shipment to another vessel, barge, or vehicle, solely for onforwarding to the country of destination shown on the shipping documents and the license;

(B) The shipment is moving on a through bill of lading;

(C) The carrier is not registered in, owned or controlled by, or under charter or lease to a country in Country Group D:1 or E:2 (see supplement no. 1 to part 740 of the EAR), or a national of any of these countries;

(D) The carrier retains custody of the shipment until it is delivered to the ultimate consignee; and

(E) The original bill of lading or air waybill first issued at the port of export is delivered with the shipment to the ultimate consignee;

(vii) Change in address of purchaser or ultimate consignee if the new address is located within the same country shown on the license; or

(viii) Change in ECCN, where necessary only for the purpose of conforming to an official revision in the CCL; or wording of the item description. This does not cover an actual change in the item to be shipped, or an increase in the total price or quantity on the license.

(ix) Direct exports, reexports, or transfers (in-country) to and among approved end users and the ultimate consignee on a license, provided those end users and ultimate consignee are listed by name and location on such license *and* the license does not contain any conditions specific to the ultimate consignee that cannot be complied with by the end user, such as a reporting requirement that must be made by the ultimate consignee. Reexports and transfers (in-country) among approved end users may be further limited by license conditions; or

(x) Export, reexport or transfer (in-country) of missile technology (MT) controlled minimum necessary ''software'' and/or ''technology'' permitted pursuant to the missile technology licensing policy in § 742.5(b)(3) of the EAR. (*See* § 742.5(b)(3)(i) for the scope of eligible minimum ''software'' and/or ''technology'' and other limitations for licenses for MT controlled items).

NOTE 1 TO PARAGRAPH (c)(1)(x): This MT licensing policy is implemented pursuant to paragraph (c)(1)(x) of this section because it applies to all MT licenses, except when a condition is placed on the license which excludes the use of paragraph (c)(1)(x) of this section, as described in § 742.5(b)(3)(ii).

NOTE 2 TO PARAGRAPH (c)(1)(x): License Exception TSU under § 740.13 of the EAR is available for the ECCNs controlled for MT reasons specified in paragraph (a)(5) in § 740.2, provided the software or technology is for an end use specified in that paragraph and meets the requirements of License Exception TSU. (See §§ 740.2(a)(5) and 740.13). The licensing policy in § 742.5(b)(3) is only available for

licensed exports (or reexports, or transfers (in-country)).

(2) In some circumstances, BIS may authorize changing the name of a person listed on a license (*i.e.*, name of exporter, reexporter, purchaser, intermediate consignee, ultimate consignee or end user), provided the pertinent person has not undergone a change in ownership, including merger or acquisition, or any other change in legal status since the time the license was issued. In order to rely on this paragraph (c)(2), BIS must have approved the name change in response to an advisory opinion request submitted by the licensee pursuant to § 748.3(c) of the EAR and the instructions below.

(i) The advisory opinion request must be submitted on the licensee's company letterhead and include the following information:

(A) The title of the advisory opinion, in this format: ''License name change notification and review request;''

(B) All license numbers subject to the notification and review request (either in the letter or as a separate attachment);

(C) The name(s) changing on the license(s) (include the original and new names), and when the name(s) are changing (either in the letter or as a separate attachment);

(D) Any background information available on the reasons for the name change(s) (e.g., press releases from the person changing its name(s)); and

(E) A statement regarding whether there has been a change in ownership, including a merger or acquisition, or any other change in legal status regarding the person(s) changing its name(s).

(F) Confirmation that, if the request is approved, the licensee will share the advisory opinion response from BIS with all other persons listed on the license, and inform those persons that the advisory opinion response must be retained pursuant to the recordkeeping requirements in part 762 of the EAR.

(ii) If BIS determines the name change is not a material change to the license and approves the request to change the name(s) on the license, BIS will send a written response to the licensee who submitted the notification. If BIS does not approve the request to change the name(s) on the license, BIS will send a written response to the licensee who submitted the notification.

(iii) For guidance on using an export license with approved name changes, see § 758.4(d) (Exports against license with approved name change).

(iv) If a license name change notification and review request is denied by BIS or the licensee determines that there has been a material change to the license, such as a change in ownership of a person on the license, including merger or acquisition, or any other change in legal status since the time the license was issued, a new license application should be submitted.

(d) *Responsibility of the licensee.* The person to whom a license is issued is the licensee. In export transactions, the exporter must be the licensee, and the exporter-licensee is responsible for the proper use of the license, and for all terms and conditions of the license, except to the extent that certain terms and conditions are directed toward some other party to the transaction. In reexport or routed export transactions, a U.S. agent acting on behalf of a foreign principal party in interest may be the licensee; in these cases, both the agent and the foreign principal party in interest, on whose behalf the agent has acted, are responsible for the use of the license, and for all terms and conditions of the license, except to the extent that certain terms and conditions are directed toward some other party to the transaction. It is the licensee's responsibility to communicate in writing the specific license conditions to the parties to whom those conditions apply. In addition, when required by the license, the licensee is responsible for obtaining written acknowledgment(s) of receipt of the conditions from the party(ies) to whom those conditions apply.

(e) *Prohibited use of a license.* No person convicted of a violation of any statute specified in section 11(h) of the EAA, at the discretion of the Secretary of Commerce, may apply for any license for a period up to 10 years from the date of the conviction. See § 766.25 of the EAR.

(f) *Quantity of commodities authorized.* Unlike software and technology, commodities will be approved with a quantity and dollar value limit. Any license resulting from a license application to export or reexport commodities will be licensed in terms of the specified unit of quantity commonly used in trade. A total dollar value for the commodity will be authorized based on the per unit price of the commodity. Subject to the shipping tolerances authorized in § 750.11 of this part, the authorization is limited by both the quantity and value listed on the license.

(g) *License validity period.* Licenses involving the export or reexport of items will generally have a four-year validity period, unless a different validity period has been requested and specifically approved by BIS or is otherwise specified on the license at the time that it is issued. Exceptions from the four-year validity period include license applications for items controlled for short supply reasons, which will be limited to a 12-month validity period and license applications reviewed and approved as an ''emergency'' (see § 748.4(h) of the EAR). Emergency licenses will expire no later than the last day of the calendar month following the month in which the emergency license is issued. The expiration date will be clearly stated on the face of the license. If the expiration date falls on a legal holiday (Federal or State), the validity period is automatically extended to midnight of the first business day following the expiration date.

(1) *Extended validity period.* BIS will consider granting a validity period exceeding 4 years on a case-by-case basis when extenuating circumstances warrant such an extension. Requests for such extensions may be made at the time of application or after the license has been issued and it is still valid. BIS will not approve changes regarding other aspects of the license, such as the parties to the transaction and the countries of ultimate destination. An extended validity period will generally be granted where, for example, the transaction is related to a multi-year project; when the period corresponds to the duration of a manufacturing license agreement, technical assistance agreement, warehouse and distribution agreement, or license issued under the International Traffic in Arms Regulations; when production lead time will not permit an export or reexport during the original validity period of the license; when an unforeseen emergency prevents shipment within the 4-year validity of the license; or for other similar circumstances.

(2) *Request for extension.* (i) The applicant must submit a letter in writing to request an extension in the validity period of a previously approved license. The subject of the letter must be titled: ''Request for Validity Period Extension'' and contain the following information:

(A) The name, address, and telephone number of the requestor;

(B) A copy of the original license, with the license number, validation date, and current expiration date legible; and

(C) Justification for the extension;

(ii) It is the responsibility of the applicant to ensure that all applicable support documents remain valid and are in the possession of the applicant. If the request for extension is approved, BIS will provide the applicant with a written response.

(h) *Specific types of licenses*—(1) *Licenses for temporary exports or reexports.* If you have been granted a license for the temporary export or reexport of items and you decide not to return the items to the United States, you must submit a license application requesting authorization to dispose of the items. Except when the items are to be used on a temporary basis at a new destination (and returned to the United States after such use), you must ensure that your license application is accompanied by all documents that would be required if you had requested a license to export or reexport the same item directly to the new destination.

(2) *Intransit within the United States.* If you have been issued a license authorizing an intransit shipment (that does not qualify for the intransit provisions of License Exception TMP) through the United States, your license will be valid only for the export of the intransit shipment wholly of foreign origin and for which a Transportation and Exportation customs entry or an

Immediate Exportation customs entry is outstanding.

(3) *Intransit outside the United States.* If you have been issued a license authorizing unlading or transit through a country listed in the General Prohibition Eight contained in § 736.2(b)(8) of the EAR, and you did not know the identity of the intermediate consignee at the time of the original license application, you must notify BIS in writing once you have ascertained the identity of the intermediate consignee. Your notification must contain the original license number, and the complete name, address, and telephone number of the intermediate consignee. The written request must be submitted to BIS at the address listed in § 748.1(d)(2) of the EAR.

(4) *Replacement license.* If you have been issued a ''replacement license'' (for changes to your original license not covered in paragraph (c) of this section), you must retain both the original and the replacement license.

(i) *Terminating license conditions.* Exporters or reexporters who have shipped under licenses with conditions that would not apply to an export under a License Exception or if no license was required, and foreign consignees who have agreed to such conditions, are no longer bound by these conditions when the licensed items become eligible for a License Exception or can be exported or reexported without a license. Items that become eligible for a License Exception are subject to the terms and conditions of the applicable License Exception and to the restrictions in § 740.2 of the EAR. Items that become eligible for export without a license remain subject to the EAR and any export, reexport, or disposition of such items may only be made in accordance with the requirements of the EAR. Termination of license conditions does not relieve an exporter or reexporter of its responsibility for violations that occurred prior to the availability of a License Exception or prior to the removal of license requirements.

(j) *Records.* If you have been issued a license you must retain the license, and maintain complete records in accordance with part 762 of the EAR including any licenses (whether used or unused, valid or expired) and all supporting documents and shipping records.

[61 FR 12829, Mar. 25, 1996, as amended at 61 FR 64285, Dec. 4, 1996; 62 FR 25463, May 9, 1997; 63 FR 50525, Sept. 22, 1998; 64 FR 47106, Aug. 30, 1999; 65 FR 42569, July 10, 2000; 68 FR 50473, Aug. 21, 2003; 69 FR 5691, Feb. 6, 2004; 69 FR 69814, Dec. 1, 2004; 73 FR 49331, Aug. 21, 2008; 73 FR 57510, Oct. 3, 2008; 75 FR 17054, Apr. 5, 2010; 78 FR 22725, Apr. 16, 2013; 78 FR 61902, Oct. 4, 2013; 79 FR 32626, June 5, 2014; 81 FR 19030, Apr. 4, 2016; 81 FR 35606, June 3, 2016]

§ 750.8 Revocation or suspension of licenses.

(a) *Revocation.* All licenses for exports or reexports are subject to revision, suspension, or revocation, in whole or in part, without notice. BIS's Office of Exporter Services may revoke any license in which a person who has been convicted of one of the statutes specified in section 11(h) of the EAA, at the discretion of the Secretary of Commerce, has an interest in the license at the time of the conviction. It may be necessary for BIS to stop a shipment or an export or reexport transaction at any stage in the process (e.g., in order to prevent an unauthorized export or reexport). If a shipment is already en route, it may be further necessary for BIS to order the return or unloading of such shipment at any port of call in accordance with the provisions of the EAA.

(b) *Return of revoked or suspended licenses.* If BIS revokes or suspends a license, the licensee shall return the license immediately upon notification that the license has been suspended or revoked. The license must be returned to BIS at the address listed in § 748.1(d)(2) of the EAR, Attn: ''Return of Revoked/Suspended License''. All applicable supporting documents and records of shipments must be retained by the licensee in accordance with the recordkeeping provisions of part 762 of the EAR. If the licensee fails to return a license immediately upon notification that it has been suspended or revoked, BIS may impose sanctions provided for in part 764 of the EAR.

[61 FR 12829, Mar. 25, 1996, as amended at 73 FR 49331, Aug. 21, 2008; 76 FR 12280, Mar. 7, 2011]

§ 750.9 Duplicate licenses.

(a) *Lost, stolen or destroyed.* If a license is lost, stolen or destroyed, you, as the licensee, may obtain a duplicate of the license by submitting a letter to the BIS at the address listed in § 748.1(d)(2) of the EAR, Attention: ''Duplicate License Request''. You must certify in your letter:

(1) That the original license ([number] issued to [name and address of licensee]) has been lost, stolen or destroyed;

(2) The circumstances under which it was lost, stolen or destroyed; and

(3) If the original license is found, the licensee will return either the original or duplicate license to the BIS. Note that if shipment was made against the original license, those shipments must be counted against the duplicate license. If you are issued a duplicate license you must retain the duplicate license in accordance with the recordkeeping provisions of part 762 of the EAR.

(b) *Hong Kong Trade Department.* BIS will automatically issue a duplicate license whenever the license lists a party in Hong Kong as the intermediate consignee, or when Hong Kong is identified as the country from which the reexport will take place. The duplicate license will be labeled ''Duplicate for Hong Kong Trade Department''. This duplicate must be forwarded to the reexporter or intermediate consignee for submission to the Hong Kong Trade Department. The original license must be retained on file by the licensee in accordance with the recordkeeping provisions contained in part 762 of the EAR.

[61 FR 12829, Mar. 25, 1996, as amended at 73 FR 49331, Aug. 21, 2008]

§ 750.10 Transfers of licenses for exports.

(a) *Authorization.* As the licensee, you may not transfer a license issued for the export of items from the United States to any other party, except with the prior written approval of BIS. BIS may authorize a transfer of a license for export to a transferee who is subject to the jurisdiction of the United States, is a principal party in interest, and will assume all powers and responsibilities under the license for the control of the shipment of the items out of the United States. BIS will approve only one transfer of the same license and only transfers of licenses to export items.

(b) *How to request the transfer of licenses*—(1) *Letter from licensee.* You, as the licensee, must submit a letter in writing to request a transfer of a license or licenses. The letter must contain the following information:

(i) The reasons for the requested transfer;

(ii) Either a list of the outstanding license numbers or a statement that all outstanding licenses in the name of the licensee are to be transferred, and the total number of such outstanding licenses;

(iii) A list of all license applications for export to be transferred that are pending with BIS, identifying the Application Control Number for each, or other information that will assist in identifying the pending license applications;

(iv) Name and address of the person you intend to transfer the licenses and license applications to;

(v) The facts necessitating transfer;

(vi) A statement as to whether or not any consideration has been, or will be, paid for the transfer; and

(vii) Identification by name of the legal document (certificate, agreement, etc.) or other authority by which the new firm name is legally established, the new corporation or firm created, or the assets transferred and showing the effective date of such document and the state where filed or recorded.

(2) *Information from transferee.* The person to whom you wish to transfer your license(s) must provide you a signed letter, that must be submitted with your request, containing the following:

(i) That the transferee is a principal party in interest in the transaction covered by the license, or is acting as agent for a principal party in interest;

(ii) That the transferee is subject to the jurisdiction of the United States;

(iii) That the transferee assumes all powers and responsibilities under the license for the control of the shipment of the items out of the United States;

(iv) Whether any consideration has been, has not been, or will be paid for the transfer;

(v) The name and address of the foreign principal in instances where the transferee will make the export as an agent on behalf of a foreign principal; and

(vi) If the license is to be transferred to a subsidiary or firm, or if you transfer to the transferee all, or a substantial portion, of your assets or business, the transferee must certify that the legal authority changing the exporter imposes on the transferee the responsibility to accept and fulfill the obligations of the transferor under the transactions covered by the license; and

(vii) The following certification:

The undersigned hereby certifies that, if license number(s) _____ is (are) transferred in accordance with my (our) request, any and all documents evidencing the order covered by this (these) license(s) will be retained and made available upon request in compliance with the recordkeeping provisions contained in Part 762 of the Export Administration Regulations. The undersigned further certifies compliance with all requirements of the Export Administration Regulations regarding these licenses.

(c) *Notification of transfer and recordkeeping*. Unless instructed otherwise by BIS, you must retain the license(s) pending notification by BIS of the action taken. If the request is approved, you must forward the license(s) to the transferee and the validated letter received from BIS authorizing the transfer. If the transfer request is not approved, the license(s) must either be returned to BIS or used by you if you so choose and have retained the legal and operational capacity fully to meet the responsibilities imposed by the license(s). If your initial request is returned by BIS for additional information, after obtaining the necessary information you may resubmit your request.

[61 FR 12829, Mar. 25, 1996, as amended at 62 FR 25463, May 9, 1997]

§ 750.11 Shipping tolerances.

Under some circumstances, you may use a license issued for the export of items from the United States to export more than the value shown on that license. This additional amount is called a shipping tolerance. This section tells you, as the licensee, when you may take advantage of a shipping tolerance and the amount of shipping tolerance you are permitted to use.

(a) If you have already shipped the full quantity of items approved on your license, you may not use this shipping tolerance provision. No further shipment may be made under the license.

(b) If you have not shipped the full quantity of items approved on the license, the value of all of your shipments under one license, up to the full quantity approved on the license, may exceed the total dollar value stated on that license by up to 10%, unless;

(1) Your license stipulates a specific shipping tolerance; or

(2) Your item is controlled for short supply reasons and a different tolerance has been established. (See part 754 of the EAR).

[78 FR 61902, Oct. 4, 2013]

PART 752 [RESERVED]

PART 754—SHORT SUPPLY CONTROLS

Sec.

754.1 Introduction.
754.2 [Reserved]
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754.4 Unprocessed western red cedar.
754.5 Horses for export by sea.
754.6 Registration of U.S. agricultural commodities for exemption from short supply limitations on export.
754.7 Petitions for the imposition of monitoring or controls on recyclable metallic materials; Public hearings.
SUPPLEMENT NO. 1 TO PART 754—CRUDE PETROLEUM AND PETROLEUM PRODUCTS
SUPPLEMENT NO. 2 TO PART 754—UNPROCESSED WESTERN RED CEDAR
SUPPLEMENT NO. 3 TO PART 754 [RESERVED]

AUTHORITY: 50 U.S.C. 4601 *et seq.;* 50 U.S.C. 1701 *et seq.;* 10 U.S.C. 7420; 10 U.S.C. 7430(e); 15 U.S.C. 1824a; E.O. 11912, 41 FR 15825, 3 CFR, 1976 Comp., p. 114; E.O. 13222, 66 FR 44025, 3 CFR, 2001 Comp., p. 783; Notice of August 4, 2016, 81 FR 52587 (August 8, 2016).

SOURCE: 61 FR 12844, Mar. 25, 1996, unless otherwise noted.

§ 754.1 Introduction.

(a) *Scope*. In this part, references to the Export Administration Regulations

(EAR) are references to 15 CFR chapter VII, subchapter C. This part implements the provisions of section 7, ''Short Supply Controls,'' of the Export Administration Act (EAA) and similar provisions in other laws that are not based on national security and foreign policy grounds.

(b) *Contents.* Specifically, this part deals with the following:

(1) It sets forth the license requirements and licensing policies for commodities that contain the symbol ''SS'' in the ''Reason for Control'' part of ''License Requirements'' section of the applicable Export Control Classification Number (ECCN) identified on the Commerce Control List (supplement no. 1 to part 774 of the EAR). In appropriate cases, it also provides for License Exceptions from the short supply licensing requirements described in this part. The license requirements and policies that are described in this part cover the following:

(i) [Reserved]

(ii) Petroleum products other than crude oil listed in supplement no. 1 to this part, that were produced or derived from the Naval Petroleum Reserves (NPR) or became available for export as a result of an exchange of any NPR-produced or -derived commodities described by the following ECCNs. For specific licensing requirements for these items, see § 754.3 of this part.

(A) ECCN 1C980 (Inorganic chemicals);

(B) ECCN 1C982 (Other petroleum products);

(C) ECCN 1C983 (Natural gas liquids and other natural gas derivatives); and

(D) ECCN 1C984 (Manufactured gas and synthetic natural gas (except when commingled with natural gas and thus subject to export authorization from the Department of Energy).

(iii) Unprocessed western red cedar described by ECCN 1C988 (Western red cedar (thuja plicata) logs and timber, and rough, dressed and worked lumber containing wane). For specific licensing requirements for these items, see § 754.4 of this part.

(iv) Horses exported by sea for slaughter covered by ECCN 0A980 (Horses for export by sea). For specific licensing requirements, see § 754.5 of this part.

(2) It incorporates statutory provisions for the registration of U.S. agricultural commodities for exemption from short supply limitations on export (see § 754.6 of this part); and

(3) It incorporates statutory provisions for the filing and review of petitions seeking the imposition of monitoring or controls on recyclable metallic materials and procedures for related public hearings (see § 754.7 of this part).

(c) *Reexports.* Reexports of items controlled by this part require a license only if such a requirement is specifically set forth in this part or is set forth on the license authorizing the export from the United States.

(d) *Additional requirements for embargoed destinations.* For exports involving embargoed destinations, you must satisfy the requirements of this part and also of part 746 of the EAR (Embargoes and Other Special Controls).

[61 FR 12844, Mar. 25, 1996, as amended at 79 FR 34410, June 17, 2014; 81 FR 29486, May 12, 2016]

§ 754.2 [Reserved]

§ 754.3 Petroleum products not including crude oil.

(a) *License requirement.* As indicated by the letters ''SS'' in the ''Reason for Control'' paragraph in the ''License Requirements'' section of ECCNs 1C980, 1C982, 1C983, and 1C984 on the CCL (supplement no. 1 to part 774 of the EAR), a license is required to all destinations, including Canada, for the export of petroleum products, excluding crude oil, listed in supplement no. 1 to this part, that were produced or derived from the Naval Petroleum Reserves (NPR) or became available for export as a result of an exchange of any NPR produced or derived commodities.

(b) *License policy.* (1) Applications for the export of petroleum products listed in supplement no. 1 to this part that were produced or derived from the Naval Petroleum Reserves, or that became available for export as a result of an exchange for a Naval Petroleum Reserves produced or derived commodity,

other than crude oil, will be denied, unless the President makes a finding required by the Naval Petroleum Reserves Production Act (10 U.S.C. 7430).

(2) Applications that involve temporary exports or exchanges excepted from that Act will be approved.

§ 754.4 Unprocessed western red cedar.

(a) *License requirement*. As indicated by the letters ''SS'' in the ''Reason for Control'' paragraph in the ''License Requirements'' section of ECCN 1C988 on the CCL (supplement no. 1 to part 774 of the EAR), a license is required to all destinations, including Canada, for the export of unprocessed western red cedar covered by ECCN 1C988 (Western red cedar (thuja plicata) logs and timber, and rough, dressed and worked lumber containing wane). For a non-exhaustive list of 10-digit Harmonized System-based Schedule B commodity numbers that may apply to unprocessed western red cedar products subject to the license requirements of this section, see supplement no. 2 to part 754 of the EAR. See paragraph (c) of this section for license exceptions for timber harvested from public lands in the State of Alaska, private lands, or Indian lands, and see paragraph (d) of this section for relevant definitions.

(b) *Licensing policy*. (1) BIS will generally deny applications for licenses to export unprocessed western red cedar harvested from Federal or State lands under harvest contracts entered into after September 30, 1979.

(2) BIS will consider, on a case-by-case basis, applications for licenses to export unprocessed western red cedar harvested from Federal or State lands under harvest contracts entered into prior to October 1, 1979.

(3) BIS will approve license applications for unprocessed western red cedar timber harvested from public lands in Alaska, private lands, and Indian lands. Applications must be submitted in accordance with the procedures set forth in paragraph (a) of this section. See paragraph (c) of this section for the availability of a License Exception.

(c) *License Exception for western red cedar (WRC)*. (1) Subject to the requirements described in paragraph (c) of this section, License Exception WRC may be used to export without a license unprocessed western red cedar timber harvested from Federal, State and other public lands in Alaska, all private lands, and, lands held in trust for recognized Indian tribes by Federal or State agencies.

(2) Exporters who use License Exception WRC must obtain and retain on file the following documents:

(i) A statement by the exporter (or other appropriate documentation) indicating that the unprocessed western red cedar timber exported under this License Exception was not harvested from State or Federal lands outside the State of Alaska, and did not become available for export through substitution of commodities so harvested or produced. If the exporter did not harvest or produce the timber, the records or statement must identify the harvester or producer and must be accompanied by an identical statement from the harvester or producer. If any intermediate party or parties held title to the timber between harvesting and purchase, the exporter must also obtain such a statement, or equivalent documentation, from the intermediate party or parties and retain it on file.

(ii) A certificate of inspection issued by a third party log scaling and grading organization, approved by the United States Forest Service, that:

(A) Specifies the quantity in cubic meters or board feet, scribner rule, of unprocessed western red cedar timber to be exported; and

(B) Lists each type of brand, tag, and/or paint marking that appears on any log or unprocessed lumber in the export shipment or, alternatively, on the logs from which the unprocessed timber was produced.

(3) The requirements and restrictions described in §§740.1 and 740.2 of the EAR that apply to all License Exceptions also apply to the use of License Exception WRC.

(4) A person exporting any item pursuant to this license exception must enter on any required Electronic Export Information (EEI) filing to the Automated Export System (AES) the correct license code that corresponds to ''SS–WRC.''

(d) *License Applications.* (1) Applicants requesting to export unprocessed western red cedar must apply for a license in accordance with § 748.1, 748.4 and 748.6 of the EAR, submit any other documents as may be required by BIS, and submit a statement from an authorized representative of the exporter, reading as follows:

I, (Name) (Title) of (Exporter) HEREBY CERTIFY that to the best of my knowledge and belief the (Quantity) (cubic meters or board feed scribner) of unprocessed western red cedar timber that (Exporter) proposes to export was not harvested from State or Federal lands under contracts entered into after October 1, 1979.

Signature

Date

(2) In Blocks 16 and 18 of the application, ''Various'' may be entered when there is more than one purchaser or ultimate consignee.

(3) For each application submitted, and for each export shipment made under a license, the exporter must assemble and retain for the period described in part 762 of the EAR, and produce or make available for inspection, the following:

(i) A signed statement(s) by the harvester or producer, and each subsequent party having held title to the commodities, that the commodities in question were harvested under a contract to harvest unprocessed western red cedar from State or Federal lands, entered into before October 1, 1979; and

(ii) The Automated Export System record.

(4) A shipping tolerance of 5 percent in cubic feet or board feet scribner is allowed on the un-shipped balance of a commodity listed on a license. This tolerance applies only to the final quantity remaining un-shipped on a license against which more than one shipment is made and not to the original quantity authorized by such license. See § 750.11 of the EAR for an explanation of shipping tolerances.

(e) *Definitions.* When used in this section, the following terms have the meaning indicated:

(1) *Unprocessed western red cedar* means western red cedar (thuja plicata) timber, logs, cants, flitches, and processed lumber containing wane on one or more sides, as defined in ECCN 1C988, that has not been processed into:

(i) Lumber of American Lumber Standards Grades of Number 3 dimension or better, or Pacific Lumber Inspection Bureau Export R-List Grades of Number 3 common or better grades, with a maximum cross section of 2,000 square centimeters (310 square inches) for any individual piece of processed western red cedar (WRC) being exported, regardless of grade;

(ii) Chips, pulp, and pulp products;

(iii) Veneer and plywood;

(iv) Poles, posts, or pilings cut or treated with preservative for use as such and not intended to be further processed; and

(v) Shakes and shingles.

(2) *Federal and State lands* means Federal and State lands, excluding lands in the State of Alaska and lands held in trust by any Federal or State official or agency for a recognized Indian tribe or for any member of such tribe.

(3) *Contract harvester* means any person who, on October 1, 1979, had an outstanding contractual commitment to harvest western red cedar timber from State and Federal lands and who can show by previous business practice or other means that the contractual commitment was made with the intent of exporting or selling for export in unprocessed form all or part of the commodities to be harvested.

(4) *Producer* means any person engaged in a process that transforms an unprocessed western red cedar commodity (e.g., western red cedar timber) into another unprocessed western red cedar commodity (e.g., cants) primarily through a saw mill.

[61 FR 12844, Mar. 25, 1996, as amended at 68 FR 50473, Aug. 21, 2003; 73 FR 49331, Aug. 21, 2008; 78 FR 13470, Feb. 28, 2013; 79 FR 4617, Jan. 29, 2014; 79 FR 34411, June 17, 2014]

§ 754.5 Horses for export by sea.

(a) *License requirement.* As indicated by the letters ''SS'' in the ''Reason for Control'' paragraph of the ''License Requirements'' section of ECCN 0A980 on the CCL (supplement no. 1 to part 774 of the EAR) a license is required for the export of horses exported by sea to all destinations, including Canada.

(b) *License policy*. (1) License applications for the export of horses by sea for the purposes of slaughter will be denied.

(2) Other license applications will be approved if BIS, in consultation with the Department of Agriculture, determines that the horses are not intended for slaughter. You must provide a statement in the additional information section of the application certifying that no horse under consignment is being exported for the purpose of slaughter.

(3) Each application for export may cover only one consignment of horses.

[61 FR 12844, Mar. 25, 1996, as amended at 73 FR 49331, Aug. 21, 2008]

§ 754.6 Registration of U.S. agricultural commodities for exemption from short supply limitations on export.

(a) *Scope*. Under the provisions of section 7(g) of the Export Administration Act of 1979 (EAA), agricultural commodities of U.S. origin purchased by or for use in a foreign country and stored in the United States for export at a later date may be registered with BIS for exemption from any quantitative limitations on export that may subsequently be imposed under section 7 of the EAA for reasons of short supply.

(b) *Applications for registration*. Applications to register agricultural commodities must be submitted by a person or firm subject to the jurisdiction of the United States who is acting as a duly authorized agent for the foreign purchaser.

(c) *Address*. Submit applications pursuant to the provisions of section 7(g) of the EAA, via courier, to: Bureau of Industry and Security, U.S. Department of Commerce, 14th and Pennsylvania Ave., NW., Room 2099B, Washington, DC 20230.

[61 FR 12844, Mar. 25, 1996, as amended at 62 FR 25467, May 9, 1997; 73 FR 37, Jan. 2, 2008; 78 FR 13470, Feb. 28, 2013]

§ 754.7 Petitions for the imposition of monitoring or controls on recyclable metallic materials; Public hearings.

(a) *Scope*. Section 7(c) of the Export Administration Act of 1979 (EAA) provides for the filing and review of petitions seeking the imposition of monitoring or controls on recyclable metallic materials.

(b) *Eligibility for filing petitions*. Any entity, including a trade association, firm or certified or recognized union or group of workers, which is representative of an industry or a substantial segment of an industry which processes metallic materials capable of being recycled with respect to which an increase in domestic prices or a domestic shortage, either of which results from increased exports, has or may have a significant adverse effect on the national economy or any sector thereof, may submit a written petition to BIS requesting the monitoring of exports, or the imposition of export controls, or both, with respect to such materials.

(c) *Public hearings*. The petitioner may also request a public hearing. Public hearings may also be requested by an entity, including a trade association, firm, or certified or recognized union or group of workers, which is representative of an industry or a substantial segment of an industry which processes, produces or exports the metallic materials which are the subject of a petition.

(d) *Address*. Submit petitions pursuant to section 7(c) of the EAA, via courier, to: Bureau of Industry and Security, U.S. Department of Commerce, 14th and Pennsylvania Ave., NW., Room 2099B, Washington, DC 20230.

[61 FR 12844, Mar. 25, 1996, as amended at 62 FR 25467, May 9, 1997; 73 FR 38, Jan. 2, 2008; 78 FR 13470, Feb. 28, 2013]

SUPPLEMENT NO. 1 TO PART 754—CRUDE PETROLEUM AND PETROLEUM PRODUCTS

This Supplement provides relevant Schedule B numbers and commodity descriptions for crude oil (EAR99) and for petroleum products other than crude oil that are controlled by ECCN 1C980, 1C982, 1C983, or 1C984. The 10-digit Harmonized System-based Schedule B commodity numbers and descriptions below are drawn from *Chapter 27 of the Schedule B 2014* found at and the *AES 2014 Export Concordance* (December 30, 2013) *http://www.census.gov/foreign- trade/*

aes/documentlibrary /expaes.txt. If there are any discrepancies between the information in this supplement and the information in the most current Schedule B, use the most current Schedule B commodity number on your Electronic Export Information filing on the Automated Export System.

Schedule B No.	Commodity description
	CRUDE OIL
2709001000	Petroleum oils and oils obtained from bituminous minerals, crude.
2709002010	Petroleum oils and oils obtained from bituminous minerals, testing 25 degrees API or more, condensate derived wholly from natural gas, crude.
2709002090	Petroleum oils and oils obtained from bituminous minerals, testing 25 degrees API or more, crude, NESOI.
2714100000	Bituminous or oil shale and tar sands.
	PETROLEUM PRODUCTS
2707999010	Carbon black feedstock.
2710121510	Leaded gasoline.
2710121514	Unleaded gasoline, reformulated.
2710121519	Unleaded gasoline, NESOI.
2710121520	Jet fuel, naphtha-type.
2710121550	Motor fuels, NESOI.
2710121805	Motor fuel blending stock, Reformulated Blendstock for Oxygenate Blending (RBOB).
2710121890	Motor fuel blending stock, except Reformulated Blendstock for Oxygenate Blending (RBOB).
2710122500	Naphthas, except motor fuel or motor fuel blending stock.
2710124500	Light oil and preparation, mixtures of hydrocarbons containing by weight not over 50 percent of any single hydrocarbon compound, NESOI.
2710129000	Light oils and preparations obtained from bituminous minerals containing by weight 70 percent or more of petroleum oils, NESOI.
2710190605	No. 4-type fuel oils, API lt 25 degrees, having a saybolt universal viscosity at 37.8 degrees C of 45–125 seconds, with not over 500 ppm of sulfur.
2710190615	No. 4-type fuel oils under 25 degrees API having a saybolt universal viscosity at 37.8 degrees C of 45–125 seconds, having over 500 ppm sulfur.
2710190620	Heavy fuel oils under 25 degrees API having saybolt universal viscosity at 37.8 degrees C of more than 125 seconds.
2710190650	Distillate and residual fuel oils (including blended fuel oils), testing under 25 degrees API, NESOI.
2710191106	Light fuel oils testing 25 degrees API or more, containing not more than 15 ppm of sulfur.
2710191109	Light fuel oils testing 25 degrees API or more, containing more than 15 ppm but not more than 500 ppm of sulfur.
2710191112	Light fuel oils 25 degrees API or more having a saybolt universal viscosity at 37.8 degrees C of less than 45 seconds, containing over 500 ppm sulfur.
2710191115	No. 4-type fuel oils containing not more than 500 ppm of sulfur.
2710191125	No. 4-type fuel oils containing more than 500 ppm of sulfur.
2710191150	Heavy fuel oils 25 degrees API or more with a saybolt universal viscosity at 37.8 degrees C of more than 125 seconds.
2710191600	Kerosene-type jet fuel, NESOI.
2710192400	Kerosene motor fuel.
2710192500	Kerosene motor fuel blending stock.
2710192600	Kerosene, except motor fuel or motor fuel blending stock, NESOI.
2710193010	Aviation engine lubricating oils (except jet engine lubricating oils).
2710193020	Automotive, diesel or marine engine (except turbine) lubricating oils.
2710193030	Turbine lubricating oil, including marine.
2710193040	Automotive gear oils.
2710193050	Steam cylinder oils.
2710193070	Quenching or cutting oils.
2710193080	Lubricating oils with or without additives, NESOI.
2710193750	Lubricating greases with or w/out additives.
2710194530	White mineral oils, medicinal grade.
2710194540	White mineral oils, except medicinal grade.
2710194545	Insulating or transformer oils, NESOI.
2710194590	Mixtures of hydrocarbons NESOI, containing by weight not over 50 percent of any single hydrocarbon compound.
2710199000	Petroleum oils or oils obtained from bituminous minerals, other than crude, containing by weight 70% or more of petroleum oils, NESOI.
2710200000	Petroleum oils or oils obtained from bituminous minerals, other than crude, containing by weight 70% or more of petroleum oils, containing biodiesel.
2710910000	Waste oils containing Polychlorinated Biphenyls (PCBs), Polychlorinated Terphenyls (PCTs), or Polybrominated Biphenyls (PBBs).
2710990000	Waste oils, not elsewhere specified or included.
2711110000	Natural gas, liquefied.
2711120000	Propane, liquefied.
2711130000	Butanes, liquefied.
2711140000	Ethylene, propylene, butylene and butadiene liquefied.
2711190000	Petroleum gases and other gaseous hydrocarbons, liquefied, NESOI.

Schedule B No.	Commodity description
2712200000	Paraffin wax containing less than 0.75 percent oil.
2712900000	Microcrystalline petroleum wax, slack wax, ozokerite, lignite wax, peat wax, other mineral waxes, and similar products, NESOI.
2713110000	Petroleum coke, not calcined.
2713120000	Petroleum coke, calcined.
2713200000	Petroleum bitumen.
2713900000	Residues of petroleum oils or of oils obtained from bituminous materials, NESOI.
2714900000	Bitumen and asphalt, natural; asphaltites and asphaltic rocks.
2715000000	Bituminous mixtures based on natural asphalt, natural bitumen, petroleum bitumen, mineral tar or mineral tar pitch.
2804100000	Hydrogen.
2804290010	Helium.
2811210000	Carbon dioxide.
2811299000	Carbon monoxide.
2814100000	Anhydrous ammonia.
2814200000	Ammonia in aqueous solution.
3819000000	Hydraulic brake fluids and other prepared liquids for hydraulic transmission, not containing or containing less than 70 percent by weight of petroleum oils or oils obtained from bituminous minerals.

[79 FR 34411, June 17, 2014, as amended at 81 FR 29486, May 12, 2016]

SUPPLEMENT NO. 2 TO PART 754—UNPROCESSED WESTERN RED CEDAR

This table is a non-exhaustive list of 10-digit Harmonized System-based Schedule B commodity numbers that may apply to unprocessed western red cedar products subject to license requirements of §754.4 of this part. The 10-digit Harmonized System-based Schedule B commodity numbers and descriptions below are drawn from *Chapter 44 of the Schedule B 2014* found at *http://www.census.gov/foreign- trade/schedules/b /2014/c44.html* and the *AES 2014 Export Concordance* (December 30, 2013) *http://www.census.gov/foreign- trade/aes/documentlibrary /expaes.txt*. If there are any discrepancies between the information in this supplement and the information in the most current Schedule B, use the most current Schedule B commodity number on your Electronic Export Information filing in the Automated Export System.

Schedule B commodity No.	Description
	Wood in the rough
4403100030	Poles, piles and posts; 'treated'.
4403100060	Wood in the rough; 'treated'.
4403200010	Not 'treated'; coniferous; poles, piles and posts.
4403200055	Not 'treated'; coniferous; logs and timber; Western Red Cedar (Thuja Plicata).
	'Lumber'
4407100101	Coniferous; finger-jointed.
4407100102	Coniferous; except finger-jointed; 'treated'.
4407100168	Coniferous; except finger-jointed; not 'treated'; Western Red Cedar (Thuja Plicata); 'rough'.
4407100169	Coniferous; except finger-jointed; not 'treated'; Western Red Cedar (Thuja Plicata); not 'rough'.

NOTE 1: *4403 heading in the Schedule B 2014 pertains to ''wood in the rough, whether or not stripped of bark or sapwood, or roughly squared (not including lumber of heading 4407).''*

NOTE 2: The *6-digit Harmonized System subheading 4403.10 and the 10-digit Harmonized System code 4407.10.0102 in Schedule B 2014 state that 'treated' means ''treated with paint, stain, creosote or other preservatives.''*

NOTE 3: The *4407 heading in the Schedule B 2014 refers to 'lumber' as ''wood sawn or chipped lengthwise, sliced or peeled, whether or not planed, sanded or end-jointed, of a thickness exceeding 6mm (.236 inch).''*

NOTE 4: Section IX—Chapter 44 of *Schedule B 2014, Statistical Note 3 states, ''for the purpose of heading 4407, the term ''rough'' includes wood that has been edged, resawn, crosscut or trimmed to smaller sizes but it does not include wood that has been dressed or surfaced by planing on one or more edges or faces or has been edge-glued or end-glued.''*

[79 FR 34412, June 17, 2014]

SUPPLEMENT NO. 3 TO PART 754
[RESERVED]

PART 756—APPEALS

Sec.
756.1 Introduction.
756.2 Appeal from an administrative action.

AUTHORITY: 50 U.S.C. 4601 *et seq.;* 50 U.S.C. 1701 *et seq.;* E.O. 13222, 66 FR 44025, 3 CFR, 2001 Comp., p. 783; Notice of August 4, 2016, 81 FR 52587 (August 8, 2016).

SOURCE: 61 FR 12851, Mar. 25, 1996, unless otherwise noted.

§ 756.1 Introduction.

(a) *Scope*. This part 756 describes the procedures applicable to appeals from administrative actions taken under the Export Administration Act (EAA) or the Export Administration Regulations (EAR). (In this part, references to the EAR are references to 15 CFR chapter VII, subchapter C). Any person directly and adversely affected by an administrative action taken by the Bureau of Industry and Security (BIS) may appeal to the Under Secretary for reconsideration of that administrative action. The following types of administrative actions are not subject to the appeals procedures described in this part 756:

(1) Issuance, amendment, revocation, or appeal of a regulation. (These requests may be submitted to BIS at any time.)

(2) Denial or probation orders, civil penalties, sanctions, or other actions under parts 764 and 766 of the EAR, except that, any appeal from an action taken under § 766.25 and any appeal from an action taken in accordance with § 766.23 to make an action taken under § 766.25 applicable to a related person shall be subject to the appeals procedures described in this part 756.

(3) A decision on a request to remove or modify an Entity List entry made pursuant to § 744.16 of the EAR or a decision on a request to remove an Unverified List entry made pursuant to § 744.15 of the EAR.

(4) A decision on whether License Exception STA is available for ''600 series'' ''end items'' pursuant to § 740.20(g).

(b) [Reserved]

[61 FR 12851, Mar. 25, 1996, as amended at 62 FR 25467, May 9, 1997; 65 FR 14863, Mar. 20, 2000; 71 FR 27605, May 12, 2006; 73 FR 49323, Aug. 21, 2008; 78 FR 13470, Feb. 28, 2013; 78 FR 22726, Apr. 16, 2013; 78 FR 76748, Dec. 19, 2013]

§ 756.2 Appeal from an administrative action.

(a) *Review and appeal officials*. The Under Secretary may delegate to the Deputy Under Secretary for Industry and Security or to another BIS official the authority to review and decide the appeal. In addition, the Under Secretary may designate any employee of the Department of Commerce to be an appeals coordinator to assist in the review and processing of an appeal under this part. If such employee is not an employee of BIS, such designation may be made only with the concurrence of the head of the operating unit in which that employee is employed. The responsibilities of an appeals coordinator may include presiding over informal hearings.

(b) *Appeal procedures*—(1) *Filing*. An appeal under this part must be received by the Under Secretary for Industry and Security, Bureau of Industry and Security, U.S. Department of Commerce, Room 3898, 14th Street and Pennsylvania Avenue, NW., Washington, DC 20230 not later than 45 days after the date appearing on the written notice of administrative action.

(2) *Content of appeal*. The appeal must include a full written statement in support of appellant's position. The appeal must include a precise statement of why the appellant believes the administrative action has a direct and adverse effect and should be reversed or modified. The Under Secretary may request additional information that would be helpful in resolving the appeal, and may accept additional submissions. The Under Secretary will not ordinarily accept any submission filed more than 30 days after the filing of the appeal or of any requested submission.

(3) *Request for informal hearing*. In addition to the written statement submitted in support of an appeal, an appellant may request, in writing, at the time an appeal is filed, an opportunity for an informal hearing. The Under Secretary may grant or deny a request for an informal hearing. Any hearings will be held in the District of Columbia unless the Under Secretary determines, based upon good cause shown, that another location would be better.

(4) *Informal hearing procedures*—(i) *Presentations*. The Under Secretary shall provide an opportunity for the appellant to make an oral presentation based on the materials previously submitted by the appellant or made available by the Department in connection with the administrative action. The Under Secretary may require that any facts in controversy be covered by an affidavit or testimony given under oath or affirmation.

(ii) *Evidence*. The rules of evidence prevailing in courts of law do not apply, and all evidentiary material deemed by the Under Secretary to be relevant and material to the proceeding, and not unduly repetitious, will be received and considered.

(iii) *Procedural questions*. The Under Secretary has the authority to limit the number of people attending the hearing, to impose any time or other limitations deemed reasonable, and to determine all procedural questions.

(iv) *Transcript*. A transcript of an informal hearing shall not be made, unless the Under Secretary determines that the national interest or other good cause warrants it, or the appellant requests a transcript. If the appellant requests a transcript, the appellant will be responsible for paying all expenses related to production of the transcript.

(v) *Report*. Any person designated by the Under Secretary to conduct an informal hearing shall submit a written report containing a summary of the hearing and recommend action to the Under Secretary.

(c) *Decisions*—(1) *Determination of appeals*. In addition to the documents specifically submitted in connection with the appeal, the Under Secretary shall consider any recommendations, reports, or relevant documents available to BIS in determining the appeal, but shall not be bound by any such recommendation, nor prevented from considering any other information, or consulting with any other person or groups, in making a determination. The Under Secretary may adopt any other procedures deemed necessary and reasonable for considering an appeal. The Under Secretary shall decide an appeal within a reasonable time after receipt of the appeal. The decision shall be issued to the appellant in writing and contain a statement of the reasons for the action.

(2) *Effect of the determination*. The decision of the Under Secretary shall be final.

(d) *Effect of appeal*. Acceptance and consideration of an appeal shall not affect any administrative action, pending or in effect, unless the Under Secretary, upon request by the appellant and with opportunity for response, grants a stay.

[61 FR 12851, Mar. 25, 1996, as amended at 62 FR 25467, May 9, 1997; 65 FR 14860, Mar. 20, 2000; 70 FR 8250, Feb. 18, 2005; 71 FR 34009, June 13, 2006]

PART 758—EXPORT CLEARANCE REQUIREMENTS

Sec.

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AUTHORITY: 50 U.S.C. 4601 *et seq.;* 50 U.S.C. 1701 *et seq.;* E.O. 13222, 66 FR 44025, 3 CFR, 2001 Comp., p. 783; Notice of August 4, 2016, 81 FR 52587 (August 8, 2016).

SOURCE: 61 FR 12852, Mar. 25, 1996, unless otherwise noted.

§ 758.1 The Electronic Export Information (EEI) filing to the Automated Export System (AES).

(a) The *Electronic Export Information (EEI) filing to the Automated Export System (AES)*. The EEI is used by the Bureau of Census to collect trade statistics and by the Bureau of Industry and Security for export control purposes. The EEI collects basic information such as the names and addresses of the parties to a transaction; the Export Control Classification Number (ECCN) (when required), the Schedule B number or Harmonized Tariff Schedule of the United States (HTS) number, the description, quantity and value of the items exported; and the license authority for the export. The EEI is a statement to the United States Government that the transaction occurred as described.

(b) *When is an EEI filing required to be filed in the AES*. Except when the export of items subject to the EAR is to take place electronically or in an otherwise intangible form, you must file EEI in the AES with the United States Government for items subject to the EAR, including exports by U.S. mail, in the following situations:

(1) For all exports of items subject to the EAR that are destined to a country in Country Group E:1 or E:2 of supplement no. 1 to part 740 of the EAR regardless of value;

(2) For all exports subject to the EAR that require submission of a license application, regardless of value or destination;

(3) For all exports of 9x515 or ''600 series'' items enumerated or otherwise described in paragraphs .a through .x of a 9x515 or ''600 series'' ECCN regardless of value or destination, including exports to Canada;

(4) For all exports under license exception Strategic Trade Authorization (STA);

(5) For all exports of commodities and mass market software subject to the EAR when the value of the commodities or mass market software classified under a single Schedule B Number (or HTS) is over $2,500, except as exempted by the Foreign Trade Regulations (FTR) in 15 CFR Part 30 and referenced in paragraph (c) of this section;

(6) For all exports of items subject to the EAR that will be transshipped through Canada to a third destination, where the export would require EEI or license if shipped directly to the final destination from the United States (see 15 CFR 30.36(b)(2) of the FTR);

(7) For all items exported under authorization Validated End-User (VEU); or

(8) For all exports of tangible items subject to the EAR where parties to the transaction, as described in § 748.5(d) through (f) of the EAR, are listed on the Unverified List (supplement 6 to part 744 of the EAR), regardless of value or destination.

(9) For items that fall under ECCNs that list CC Column 1 and 3 and RS Column 2 (see supplement no. 1 to part 738 of the EAR) as reasons for control and such items are for export, regardless of value, to India.

(c) *Exemptions*. A complete list of exemptions from the EEI filing requirement is set forth in the 15 CFR 30.35 through 30.40 of the FTR. Some of these FTR exemptions have elements in common with certain EAR license exceptions. An FTR exemption may be narrower than an EAR license exception. The following references are provided in order to direct you to the FTR exemptions that relate to EAR license exceptions:

(1) License Exception Baggage (BAG), as set forth in § 740.14 of the EAR. See 15 CFR 30.37(x) of the FTR;

(2) License Exception Gift Parcels and Humanitarian Donations (GFT), as set forth in § 740.12 of the EAR. See 15 CFR 30.37(h) of the FTR;

(3) License Exception Aircraft and Vessels (AVS), as set forth in § 740.15 of the EAR. See 15 CFR 30.37(o) (5) of the FTR;

(4) License Exception Governments and International Organizations (GOV), as set forth in § 740.11 of the EAR. See 15 CFR 30.39 and 30.40 of the FTR;

(5) License Exception Technology and Software Under Restriction (TSR), as set forth in § 740.6 of the EAR. See 15 CFR 30.37(f) of the FTR; or

(6) License Exception Temporary Imports, Exports, and Reexports (TMP) ''tools of trade'', as set forth in § 740.9(a)(1) of the EAR. See 15 CFR 30.37(b) of the FTR.

(d) *Notation on export documents for exports exempt from EEI filing requirements.* When an exemption from filing the EEI applies, the export authority (license exception or NLR) of all the items must be entered on the loading document (e.g., Cargo Declaration, manifest, bill of lading, (master) air waybill) by the person responsible for preparing the document, see 15 CFR 30.35 of the FTR. This requirement is intended to parallel the Bureau of Census requirement, so that notations as to the basis for the EEI exemption and the license authority are entered in the same place and manner (see 15 CFR 30.45(e) and (f) of the FTR for detailed requirements). The loading document must be available for inspection by government officials, along with the items, prior to lading on the carrier.

(e) *Filing the Electronic Export Information (EEI) to the AES.* The person who files the EEI to the AES must be in the United States at the time of filing. The person who transmits the EEI to the AES must be a certified AES participant in accordance with 15 CFR 30.5 of the FTR. The person who transmits EEI to the AES, whether exporter (U.S. principal party in interest) or agent, is responsible for the truth, accuracy, and completeness of the EEI, except insofar as that person can demonstrate that he or she reasonably relied on information furnished by others.

(f) *The EEI is an export control document.* The EEI is a statement to the United States Government. The EEI is an export control document as defined in Part 772 of the EAR. False statements made thereon may be a violation of §764.2(g) of the EAR. When EEI is filed to the AES, the filer of the EEI represents the following:

(1) Export of the items described on the EEI filing is authorized under the terms and conditions of a license issued by BIS; is in accordance with the terms and conditions of a license exception; is authorized under ''NLR'' as no license is required for the shipment; or is not subject to the EAR;

(2) Statements on the EEI filing are in conformity with the contents of any license issued by BIS, with the possible exception of the USPPI and USPPI identification blocks in routed transactions or any name change approved by BIS in writing in accordance with §750.7(c)(2) of the EAR; and

(3) All information shown on the EEI filing is true, accurate, and complete.

(g) *Export control information on the EEI filing in AES.* For each item on the EEI filing, you must report the license authority (license number, License Exception symbol, or No License Required (NLR) designator), the Export Control Classification Number (ECCN) (when required), and the item description in the designated blocks. The item description must be stated in Commerce Control List (CCL) terms. If those terms are inadequate to meet the Bureau of Census requirements, the FTR requires that you give enough additional detail to permit verification of the Schedule B Number (or Harmonized Tariff Schedule of the United States (HTS) number). See 15 CFR Part 30, Appendix B, Part III of the FTR for license codes.

(1) *Exports under a license.* When exporting under the authority of a license, you must report on the EEI filing to the AES the license code that corresponds to the license, license number, the ECCN, and an item description identical to the item description on the license.

(2) *Exports under a license exception.* You must report on any required EEI filing to the AES the ECCN and the correct License Exception symbol (e.g., LVS, GBS, CIV) for the License Exception(s) and the license code/license exception code that corresponds to the license exception under which you are exporting. Items temporarily in the United States meeting the provisions of License Exception TMP, under §740.9(b)(3), are exempted from entering the ECCN. See also §740.1(d) of the EAR.

(3) *No License Required (NLR) exports.* You must report on any required EEI filing to the AES the correct license code/license exception code when using the ''NLR'' designation for the items that are subject to the EAR but not listed on the Commerce Control List (CCL) (i.e., items are designated as EAR99) (FTR license code ''C33''), and when the items to be exported are listed on the CCL but are not subject to a license requirement. In addition, you must enter the correct ECCN on any

required EEI filing for all items being exported under the NLR provisions that have a reason for control other than or in addition to anti-terrorism (AT).

(h) *Power of attorney or other written authorization.* In a ''power of attorney'' or other written authorization, authority is conferred upon an agent to perform certain specified acts or kinds of acts on behalf of a principal.

(1) An agent must obtain a power of attorney or other written authorization in the following circumstances:

(i) An agent that represents a foreign principal party in interest in a routed transaction must obtain a power of attorney or other written authorization that sets forth his authority; and

(ii) An agent that applies for a license on behalf of a principal party in interest must obtain a power of attorney or other written authorization that sets forth the agent's authority to apply for the license on behalf of the principal.

NOTE TO PARAGRAPH (h)(1): The Bureau of Census Foreign Trade Regulations impose additional requirements for a power of attorney or other written authorization. See 15 CFR 30.3(f) of the FTR.

(2) This requirement for a power of attorney or other written authorization is a legal requirement aimed at ensuring that the parties to a transaction negotiate and understand their responsibilities. The absence of a power of attorney or other written authorization does not prevent BIS from using other evidence to establish the existence of an agency relationship for purposes of imposing liability.

(i) *Filing the Electronic Export Information (EEI).* The EEI must be filed with the United States Government in the manner prescribed by the Bureau of Census Foreign Trade Regulations (15 CFR part 30).

[79 FR 4617, Jan. 29, 2014, as amended at 79 FR 32626, June 5, 2014; 79 FR 34221, June 16, 2014; 79 FR 48661, Aug. 18, 2014; 80 FR 3466, Jan. 23, 2015; 80 FR 43319, July 22, 2015]

§ 758.2 Automated Export System (AES).

The Bureau of the Census' Foreign Trade Regulations (FTR) (15 CFR Part 30) contain provisions for filing Electronic Export Information (EEI) using the Automated Export System (AES). In order to use AES, you must apply directly to the Bureau of the Census (Census Bureau) for certification and approval (see 15 CFR 30.5(a) of the FTR). Two electronic filing options (predeparture and postdeparture) are available for transmitting EEI. Predeparture filing requires that all information be reported in AES prior to export (15 CFR 30.4(a) and (b) of the FTR). Postdeparture filing is available only for approved companies (approved by the Census Bureau, U.S. Customs and Border Protection, and BIS) and requires no information to be transmitted prior to export with complete information reported postdeparture no later than five (5) calendar days after the date of exportation (15 CFR 30.4(c) of the FTR).

(a) *Census Bureau's postdeparture application process.* Exporters, or agents applying on behalf of an exporter, may apply for postdeparture privileges by submitting a Letter of Intent to the Bureau of Census (Census Bureau) Census Bureau in accordance with 15 CFR 30.5(a) of the FTR. The Census Bureau will distribute the Letter of Intent to BIS and other agencies participating in the postdeparture approval process. Any agency may notify the Census Bureau that an applicant has failed to meet its acceptance standards, and the Census Bureau will provide a denial letter to the applicant naming the denying agency. If the Census Bureau receives neither notification of denial, nor a request for an extension from the agency within 30 days of the date of referral of the letter of intent to the agency, the applicant is deemed to be approved by that agency. (15 CFR 30.5(c) of the FTR).

(b) *BIS postdeparture evaluation criteria.* BIS will consider the grounds for denial of postdeparture filing status set forth in 15 CFR 30.5(c)(1) of the FTR, as well as the additional grounds for denial set forth in this paragraph.

(1) Applicants have not been approved for postdeparture filing privileges by the Census Bureau or other agency;

(2) Any party to the export transaction is contained on BIS's Denied Party, Entity Lists, [SDN], or Unverified List;

(3) Exports are destined to a country in Country Group E:1 or E:2 (supplement no. 1 to part 740 of the EAR);

(4) Exports are made under License Exception Strategic Trade Authorization (STA); are made under Authorization Validated End User (VEU); or are of 9x515 or ''600 series'' items.

(5) Exports containing items that require a BIS license or have an ECCN controlled for reasons other than Anti-Terrorism only or Encryption Items.

(c) *Contacts for assistance.* (1) For additional information on the AES in general, please contact the Foreign Trade Division, U.S. Census Bureau, (800) 549–0595, ext. 1.

(2) For information about BIS's postdeparture approval process for items subject to the EAR, contact: Director, Office of Technology Evaluation, Bureau of Industry and Security, (202) 482–4933, facsimile: (202) 482–5361.

[79 FR 4617, Jan. 29, 2014, as amended at 79 FR 27437, May 13, 2014; 80 FR 43319, July 22, 2015]

§ 758.3 Responsibilities of parties to the transaction.

All parties that participate in transactions subject to the EAR must comply with the EAR. Parties are free to structure transactions as they wish, and to delegate functions and tasks as they deem necessary, as long as the transaction complies with the EAR. However, acting through a forwarding or other agent, or delegating or redelegating authority, does not in and of itself relieve anyone of responsibility for compliance with the EAR.

(a) *Export transactions.* The U.S. principal party in interest is the exporter, except in certain routed transactions. The exporter must determine licensing authority (License, License Exception, or NLR), and obtain the appropriate license or other authorization. The exporter may hire forwarding or other agents to perform various tasks, but doing so does not necessarily relieve the exporter of compliance responsibilities.

(b) *Routed export transactions.* All provisions of the EAR, including the end-use and end-user controls found in part 744 of the EAR, and the General Prohibitions found in part 736 of the EAR, apply to routed export transactions. The U.S. principal party in interest is the exporter and must determine licensing authority (License, License Exception, or NLR), and obtain the appropriate license or other authorization, *unless* the U.S. principal party in interest obtains from the foreign principal party in interest a writing wherein the foreign principal party in interest expressly assumes responsibility for determining licensing requirements and obtaining license authority, making the U.S. agent of the foreign principal party in interest the exporter for EAR purposes. One writing may cover multiple transactions between the same principals. See § 748.4(a)(3) of the EAR.

(c) *Information sharing requirements.* In routed export transactions where the foreign principal party in interest assumes responsibility for determining and obtaining licensing authority, the U.S. principal party in interest must, upon request, provide the foreign principal party in interest and its forwarding or other agent with the correct Export Control Classification Number (ECCN), or with sufficient technical information to determine classification. In addition, the U.S. principal party in interest must provide the foreign principal party in interest or the foreign principal's agent any information that it knows will affect the determination of license authority, see § 758.1(g) of the EAR.

(d) *Power of attorney or other written authorization.* In routed export transactions, a forwarding or other agent that represents the foreign principal party in interest, or who applies for a license on behalf of the foreign principal party in interest, must obtain a power of attorney or other written authorization from the foreign principal party in interest to act on its behalf. See § 748.4(b)(2) and § 758.1(h) of the EAR.

[65 FR 42572, July 10, 2000, as amended at 79 FR 4619, Jan. 29, 2014]

§ 758.4 Use of export license.

(a) *License valid for shipment from any port.* An export license issued by BIS authorizes exports from any port of export in the United States unless the license states otherwise. Items that leave the United States at one port, cross adjacent foreign territory, and

reenter the United States at another port before being exported to a foreign country, are treated as exports from the last U.S. port of export.

(b) *Shipments against expiring license.* Any item requiring a license that has not departed from the final U.S. port of export by midnight of the expiration date on an export license may not be exported under that license unless the shipment meets the requirements of paragraphs (b)(1) or (2) of this section.

(1) BIS grants an extension; or

(2) Prior to midnight on the date of expiration on the license, the items:

(i) Were laden aboard the vessel;

(ii) Were located on a pier ready for loading and not for storage, and were booked for a vessel that was at the pier ready for loading; or

(iii) The vessel was expected to be at the pier for loading before the license expired, but exceptional and unforseen circumstances delayed it, and BIS or the U.S. Customs Service makes a judgment that undue hardship would result if a license extension were required.

(c) *Reshipment of undelivered items.* If the consignee does not receive an export made under a license because the carrier failed to deliver it, the exporter may reship the same or an identical item, subject to the same limitations as to quantity and value as described on the license, to the same consignee and destination under the same license. If an item is to be reshipped to any person other than the original consignee, the shipment is considered a new export and requires a new license. Before reshipping, satisfactory evidence of the original export and of the delivery failure, together with a satisfactory explanation of the delivery failure, must be submitted by the exporter to the following address: Operations Division, Bureau of Industry and Security, U.S. Department of Commerce, Room 2099B, 14th Street & Pennsylvania Avenue, NW., Washington, DC 20230.

(d) *Exports against license with approved name changes.* If you are exporting against a license with approved name changes under § 750.7(c)(2) of the EAR, prior to using that export license you are required to include in the respective name field in AES (e.g., in the USPPI name field in AES), the new name followed by the original name in this format ''[new name] f.k.a. [original name].'' This reporting requirement would be completed by the authorized filer of the electronic export information (EEI) in AES. Although not required, the exporter may include a copy of the BIS written response approving the non-material name changes in accordance with § 750.7(c)(2) of the EAR. If the items have already been exported against the license by the time the name changes are approved, you are not required to report this additional information in AES, but you still must follow the recordkeeping requirements in part 762 of the EAR.

[65 FR 42572, July 10, 2000, as amended at 78 FR 13470, Feb. 28, 2013; 79 FR 32626, June 5, 2014]

§ 758.5 Conformity of documents and unloading of items.

(a) *Purpose.* The purpose of this section is to prevent items licensed for export from being diverted while in transit or thereafter. It also sets forth the duties of the parties when the items are unloaded in a country other than that of the ultimate consignee or end user as stated on the export license.

(b) *Conformity of documents.* When a license is issued by BIS, the information entered on related export control documents (e.g., Electronic Export Information (EEI) filing, bill of lading or air waybill) must be consistent with the license.

(c) *Issuance of the bill of lading or air waybill*—(1) *Ports in the country of the ultimate consignee or end user.* No person may issue a bill of lading or air waybill that provides for delivery of licensed items to any foreign port located outside the country of an intermediate consignee, ultimate consignee, or end user named on the BIS license and in the EEI filing.

(2) *Optional ports of unloading*—(i) *Licensed items.* No person may issue a bill of lading or air waybill that provides for delivery of licensed items to optional ports of unloading unless all the optional ports are within the country of ultimate destination or are included on the BIS license and in the EEI filing.

(ii) *Unlicensed items.* For shipments of items that do not require a license, the exporter may designate optional ports of unloading in EEI filing and on other export control documents, so long as the optional ports are in countries to which the items could also have been exported without a license.

(d) *Delivery of items.* No person may deliver items to any country other than the country of an intermediate consignee, ultimate consignee, or end user named on the BIS license and EEI filing without prior written authorization from BIS, except for reasons beyond the control of the carrier (such as acts of God, perils of the sea, damage to the carrier, strikes, war, political disturbances or insurrection).

(e) *Procedures for unscheduled unloading*—(1) *Unloading in country where no license is required.* When items are unloaded in a country to which the items could be exported without a license issued by BIS, no notification to BIS is required. However, any persons disposing of the items must continue to comply with the terms and conditions of any License Exception, and with any other relevant provisions of the EAR.

(2) *Unloading in a country where a license is required.* (i) When items are unloaded in a country to which the items would require a BIS license, no person may effect delivery or entry of the items into the commerce of the country where unloaded without prior written approval from BIS. The carrier, in ensuring that the items do not enter the commerce of the country, may have to place the items in custody, or under bond or other guaranty. In addition, the carrier must inform the exporter and BIS of the unscheduled unloading in a time frame that will enable the exporter to submit its report within 10 days from the date of unscheduled unloading. The exporter must within 10 days of the unscheduled unloading report the facts to and request authorization for disposition from BIS using either: mail, fax, or E-mail. The report to BIS must include:

(A) A copy of the manifest of the diverted cargo;

(B) Identification of the place of unloading;

(C) Statement that explains why the unloading was necessary; and

(D) A proposal for disposition of the items and a request for authorization for such disposition from BIS.

(ii) *Contact information.* U.S. Department of Commerce, Bureau of Industry and Security, Office of Exporter Services, Room 2099B, 14th and Pennsylvania Avenue, NW., Washington, DC 20230; phone number 202–482–0436; facsimile number 202–482–3322; and E-Mail address: *rpd2@bis.doc.gov.*

[65 FR 42573, July 10, 2000, as amended at 72 FR 3946, Jan. 29, 2007; 78 FR 13470, Feb. 28, 2013; 78 FR 22726, Apr. 16, 2013; 79 FR 4619, Jan. 29, 2014]

§ 758.6 Destination control statement and other information furnished to consignees.

(a) The exporter must incorporate the following information as an integral part of the commercial invoice whenever items on the Commerce Control List are shipped (*i.e.*, exported in tangible form), unless the shipment (*i.e.*, the tangible export) may be made under License Exception BAG or GFT (see part 740 of the EAR) or the item is designated as EAR99:

(1) The following statement: ''These items are controlled by the U.S. Government and authorized for export only to the country of ultimate destination for use by the ultimate consignee or end-user(s) herein identified. They may not be resold, transferred, or otherwise disposed of, to any other country or to any person other than the authorized ultimate consignee or end-user(s), either in their original form or after being incorporated into other items, without first obtaining approval from the U.S. government or as otherwise authorized by U.S. law and regulations'' and

(2) The ECCN(s) for any 9x515 or ''600 series'' ''items'' being shipped (*i.e.*, exported in tangible form).

NOTE 1 TO PARAGRAPH (a). In paragraph (a)(1), the term 'authorized' includes exports, reexports and transfers (in-country) designated under No License Required (NLR).

NOTE 2 TO PARAGRAPH (a). The phrase 'country of ultimate destination' means the country specified on the commercial invoice where the ultimate consignee or end user will receive the items as an ''export.''

NOTE 3 TO PARAGRAPH (a). The phrase 'or as otherwise authorized by U.S. law and regulations' is included because the EAR contain

specific exemptions from licensing (*e.g.*, EAR license exceptions and NLR designations) and do not control the reexport of foreign-made items containing less than a de minimis amount of controlled content. See § 734.4 and supplement no. 2 to part 748.

(b) [Reserved]

[81 FR 54731, Aug. 17, 2016]

§ 758.7 Authority of the Office of Export Enforcement, the Bureau of Industry and Security, Customs offices and Postmasters in clearing shipments.

(a) *Actions to assure compliance with the EAR.* Officials of BIS, the Office of Export Enforcement, the U.S. Customs Service and postmasters, including post office officials, are authorized and directed to take appropriate action to assure compliance with the EAR. This includes assuring that:

(1) Exports without a license issued by BIS are either outside the scope of the license requirements of the Export Administration Regulations or authorized by a License Exception; and

(2) Exports purporting to be authorized by licenses issued by BIS are, in fact, so authorized and the transaction complies with the terms of the license.

(b) *Types of actions.* The officials designated in paragraph (a) of this section are authorized to take the following types of actions:

(1) *Inspection of items*—(i) *Purpose of inspection.* All items declared for export are subject to inspection for the purpose of verifying the items specified in the Electronic Export Information (EEI) filing, or if there is no EEI filing, the bill of lading or other loading document covering the items about to be exported, and the value and quantity thereof, and to assure observance of the other provisions of the Export Administration Regulations. This authority applies to all exports within the scope of the Export Administration Act or Export Administration Regulations whether or not such exports require a license issued by BIS. The inspection may include, but is not limited to, item identification, technical appraisal (analysis), or both.

(ii) *Place of inspection.* Inspection shall be made at the place of lading or where officials authorized to make those inspections are stationed for that purpose.

(iii) *Technical identification.* Where, in the judgment of the official making the inspection, the item cannot be properly identified, a sample may be taken for more detailed examination or for laboratory analysis.

(A) *Obtaining samples.* The sample will be obtained by the official making the inspection in accordance with the provisions for sampling imported merchandise. The size of the sample will be the minimum representative amount necessary for identification or analysis. This will depend on such factors as the physical condition of the material (whether solid, liquid, or gas) and the size and shape of the container.

(B) *Notification to exporter and consignee.* When a sample is taken, the exporter (or the exporter's agent) and the ultimate consignee will be notified by letter from one of the official designated in paragraph (a) of this section, showing the port of export, date of sampling, export license number (if any) or other authorization, invoice number quantity of sample taken, description of item, marks and packing case numbers, and manufacturer's number for the item. The original letter will be sent to the exporter or the exporter's agent, the duplicate will be placed in the container that had been opened, and the triplicate will be retained by the inspecting office.

(C) *Disposal of samples.* Samples will be disposed of in accordance with the U.S. Customs Service procedure for imported commodities.

(2) *Inspection of documents*—(i) *General.* Officials designated in paragraph (a) of this section are authorized to require exporters or their agents, and owners and operators of exporting carriers or their agents, to produce for inspection or copying: invoices, orders, letters of credit, inspection reports, packing lists, shipping documents and instructions, correspondence, and any other relevant documents, as well as furnish other information bearing upon a particular shipment being exported or intended to be exported.

(ii) *Cartridge and shell case scrap.* When cartridge or shell cases are being exported as scrap (whether or not they

have been heated, flame-treated, mangled, crushed, or cut) from the United States, the U.S. Customs Service is authorized to require the exporter to furnish information bearing on the identity and relationships of all parties to the transaction and produce a copy of the bid offer by the armed services in order to assure that the terms of the Export Administration Regulations are being met and that the material being shipped is scrap.

(3) *Questioning of individuals*. Officials designated in paragraph (a) of this section are authorized to question the owner or operator of an exporting carrier and the carrier's agent(s), as well as the exporter and the exporter's agent(s), concerning a particular shipment exported or intended to be exported.

(4) *Prohibiting lading*. Officials designated in paragraph (a) of this section are authorized to prevent the lading of items on an exporting carrier whenever those officials have reasonable cause to believe that the export or removal from the United States is contrary to the Export Administration Regulations.

(5) *Inspection of exporting carrier*. The U.S. Customs Service is authorized to inspect and search any exporting carrier at any time to determine whether items are intended to be, or are being, exported or removed from the United States contrary to the Export Administration Regulations. Officials of the Office of Export Enforcement may conduct such inspections with the concurrence of the U.S. Customs Service.

(6) *Seizure and detention*. Customs officers are authorized, under Title 22 of the United States Code, section 401, *et seq.*, to seize and detain any items whenever an attempt is made to export such items in violation of the Export Administration Regulations, or whenever they know or have probable cause to believe that the items are intended to be, are being, or have been exported in violation of the EAR. In addition to the authority of Customs officers to seize and detain items, both Customs officials and officials of the Office of Export Enforcement are authorized to detain any shipment held for review of the AES record, or if there is no AES record, the bill of lading or other loading document covering the items about to be exported, or for physical inspection of the items, whenever such action is deemed to be necessary to assure compliance with the EAR.

(7) *Preventing departure of carrier*. The U.S. Customs Service is authorized under Title 22 of the U. S. Code, section 401, *et seq.*, to seize and detain, either before or after clearance, any vessel or vehicle or air carrier that has been or is being used in exporting or attempting to export any item intended to be, being, or having been exported in violation of the EAR.

(8) *Ordering the unloading*. The U.S. Customs Service is authorized to unload, or to order the unloading of, items from any exporting carrier, whenever the U.S. Customs Service has reasonable cause to believe such items are intended to be, or are being, exported or removed from the United States contrary to the EAR.

(9) *Ordering the return of items*. If, after notice that an inspection of a shipment is to be made, a carrier departs without affording the U.S. Customs Service, Office of Export Enforcement, or BIS personnel an adequate opportunity to examine the shipment, the owner or operator of the exporting carrier and the exporting carrier's agent(s) may be ordered to return items exported on such exporting carrier and make them available for inspection.

(10) *Designating time and place for clearance*. The U.S. Customs Service is authorized to designate times and places at which U.S. exports may move by land transportation to countries contiguous to the United States.

[61 FR 12852, Mar. 25, 1996, as amended at 62 FR 25469, May 9, 1997; 68 FR 50474, Aug. 21, 2003; 78 FR 13470, Feb. 28, 2013; 79 FR 4619, Jan. 29, 2014]

§ 758.8 Return or unloading of cargo at direction of BIS, the Office of Export Enforcement or Customs Service.

(a) *Exporting carrier*. As used in this section, the term ''exporting carrier'' includes a connecting or on-forwarding carrier, as well as the owner, charterer, agent, master, or any other person in charge of the vessel, aircraft, or other kind of carrier, whether such person is

located in the United States or in a foreign country.

(b) *ordering return or unloading of shipment.* Where there are reasonable grounds to believe that a violation of the Export Administration Regulations has occurred, or will occur, with respect to a particular export from the United States, BIS, the Office of Export Enforcement, or the U.S. Customs Service may order any person in possession or control of such shipment, including the exporting carrier, to return or unload the shipment. Such person must, as ordered, either:

(1) Return the shipment to the United States or cause it to be returned or;

(2) Unload the shipment at a port of call and take steps to assure that it is placed in custody under bond or other guaranty not to enter the commerce of any foreign country without prior approval of BIS. For the purpose of this section, the furnishing of a copy of the order to any person included within the definition of exporting carrier will be sufficient notice of the order to the exporting carrier.

(c) *Requirements regarding shipment to be unloaded.* The provisions of § 758.5(b) and (c) of this part, relating to reporting, notification to BIS, and the prohibition against unauthorized delivery or entry of the item into a foreign country, shall apply also when items are unloaded at a port of call, as provided in paragraph (b)(2) of this section.

(d) *Notification.* Upon discovery by any person included within the term ''exporting carrier,'' as defined in paragraph (a) of this section, that a violation of the EAR has occurred or will occur with respect to a shipment on board, or otherwise in the possession or control of the carrier, such person must immediately notify both:

(1) The Office of Export Enforcement at the following address: Room H–4520, U.S. Department of Commerce, 14th Street and Constitution Ave., N.W., Washington D.C. 20230, Telephone: (202) 482 1208, Facsimile: (202) 482–0964; and

(2) The person in actual possession or control of the shipment.

§ 758.9 Other applicable laws and regulations.

The provisions of this part 758 apply only to exports regulated by BIS. Nothing contained in this part 758 shall relieve any person from complying with any other law of the United States or rules and regulations issued thereunder, including those governing SEDs, AES records, and manifests, or any applicable rules and regulations of the Bureau of Customs and Border Protection or Bureau of Immigration and Customs Enforcement.

[68 FR 50474, Aug. 21, 2003]

PART 760—RESTRICTIVE TRADE PRACTICES OR BOYCOTTS

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SOURCE: 61 FR 12862, Mar. 25, 1996, unless otherwise noted.

§ 760.1 Definitions.

In this part, references to the EAR are references to 15 CFR chapter VII, subchapter C.

(a) *Definition of person*. For purposes of this part, the term *person* means any individual, or any association or organization, public or private, which is organized, permanently established, resident, or registered to do business, in the United States or any foreign country. This definition of person includes both the singular and plural and, in addition, includes:

(1) Any partnership, corporation, company, branch, or other form of association or organization, whether organized for profit or non-profit purposes;

(2) Any government, or any department, agency, or commission of any government;

(3) Any trade association, chamber of commerce, or labor union;

(4) Any charitable or fraternal organization; and

(5) Any other association or organization not specifically listed in paragraphs (a)(1) through (4) of this section.

(b) *Definition of ''United States person''*. (1) This part applies to United States persons. For purposes of this part, the term *United States person* means any person who is a United States resident or national, including individuals, domestic concerns, and ''controlled in fact'' foreign subsidiaries, affiliates, or other permanent foreign establishments of domestic concerns. This definition of United States person includes both the singular and plural and, in addition, includes:

(i) The government of the United States or any department, agency, or commission thereof;

(ii) The government of any State of the United States, the District of Columbia, the Commonwealth of Puerto Rico, any territory or possession of the United States, or any subdivision, department, agency, or commission of any such government;

(iii) Any partnership, corporation, company, association, or other entity organized under the laws of paragraph (b)(1)(i) or (ii) of this section;

(iv) Any foreign concern's subsidiary, partnership, affiliate, branch, office, or other permanent establishment in any state of the United States, the District of Columbia, the Commonwealth of Puerto Rico, or any territory or possession of the United States; and

(v) Any domestic concern's foreign subsidiary, partnership, affiliate, branch, office, or other permanent foreign establishment which is controlled in fact by such domestic concern. (See paragraph (c) of this section on ''Definition of 'Controlled in Fact'.'')

(2) The term *domestic concern* means any partnership, corporation, company, association, or other entity of, or organized under the laws of, any jurisdiction named in paragraph (b)(1) (i) or (ii) of this section, or any permanent domestic establishment of a foreign concern.

(3) The term *foreign concern* means any partnership, corporation, company, association, or other entity of, or organized under the laws of, any jurisdiction other than those named in paragraph (b)(1)(i) or (ii) of this section.

(4) The term *United States person* does not include an individual United States national who is resident outside the United States and who is either employed permanently or temporarily by a non-United States person or assigned to work as an employee for, and under the direction and control of, a non-United States person.

EXAMPLES OF ''UNITED STATES PERSON''

The following examples are intended to give guidance in determining whether a person is a ''United States person.'' They are illustrative, not comprehensive.

(i) U.S. bank A has a branch office in foreign country P. Such branch office is a United States person, because it is a permanent foreign establishment of a domestic concern.

(ii) Ten foreign nationals establish a manufacturing plant, A, in the United States, incorporating the plant under New York law.

A is a United States person, because it is a corporation organized under the laws of one of the states of the United States.

(iii) A, a foreign corporation, opens an office in the United States for purposes of soliciting U.S. orders. The office is not separately incorporated.

A's U.S. office is a United States person, because it is a permanent establishment, in the United States, of a foreign concern.

(iv) A, a U.S. individual, owns stock in foreign corporation B.

A is a United States person. However, A is not a ''domestic concern,'' because the term ''domestic concern'' does not include individuals.

(v) A, a foreign national resident in the United States, is employed by B, a foreign corporation.

A is a United States person, because he is resident in the United States.

(vi) A, a foreign national, who is resident in a foreign country and is employed by a foreign corporation, makes occasional visits to the United States, for purposes of exploring business opportunities.

A is not a United States person, because he is not a United States resident or national.

(vii) A is an association of U.S. firms organized under the laws of Pennsylvania for the purpose of expanding trade.

A is a United States person, because it is an association organized under the laws of one of the states of the United States.

(viii) At the request of country Y, A, an individual employed by U.S. company B, is assigned to company C as an employee. C is a foreign company owned and controlled by country Y. A, a U.S. national who will reside in Y, has agreed to the assignment provided he is able to retain his insurance, pension, and other benefits. Accordingly, company B has agreed to keep A as an employee in order to protect his employee benefits, and company C has agreed to pay for A's salary. At all times while he works for C, A will be under C's direction and control.

A is not a United States person while under C's direction and control, because he will be resident outside the United States and assigned as an employee to a non-United States person. The arrangement designed to protect A's insurance, pension, and other benefits does not destroy his status as an employee of C so long as he is under the direction and control of C.

(ix) A, a U.S. citizen, has resided in Europe for three years, where he is a self-employed consultant for United States and foreign companies in the communications industry.

A is a United States person, because he is a U.S. national and because he is not a resident outside the United States who is employed by other than a United States person.

(c) *Definition of ''Controlled in Fact''.* (1) This part applies to any domestic concern's foreign subsidiary, partnership, affiliate, branch, office, or other permanent foreign establishment which is *controlled in fact* by such domestic concern. *Control in fact* consists of the authority or ability of a domestic concern to establish the general policies or to control day-to-day operations of its foreign subsidiary, partnership, affiliate, branch, office, or other permanent foreign establishment.

(2) A foreign subsidiary or affiliate of a domestic concern will be presumed to be controlled in fact by that domestic concern, subject to rebuttal by competent evidence, when:

(i) The domestic concern beneficially owns or controls (whether directly or indirectly) more than 50 percent of the outstanding voting securities of the foreign subsidiary or affiliate;

(ii) The domestic concern beneficially owns or controls (whether directly or indirectly) 25 percent or more of the voting securities of the foreign subsidiary or affiliate, if no other person owns or controls (whether directly or indirectly) an equal or larger percentage;

(iii) The foreign subsidiary or affiliate is operated by the domestic concern pursuant to the provisions of an exclusive management contract;

(iv) A majority of the members of the board of directors of the foreign subsidiary or affiliate are also members of the comparable governing body of the domestic concern;

(v) The domestic concern has authority to appoint the majority of the members of the board of directors of the foreign subsidiary or affiliate; or

(vi) The domestic concern has authority to appoint the chief operating officer of the foreign subsidiary or affiliate.

(3) A brokerage firm or other person which holds simple record ownership of securities for the convenience of clients will not be deemed to control the securities.

(4) A domestic concern which owns, directly or indirectly, securities that are immediately convertible at the option of the holder or owner into voting securities is presumed to own or control those voting securities.

(5) A domestic concern's foreign branch office or other unincorporated permanent foreign establishment is deemed to be controlled in fact by such domestic concern under all circumstances.

EXAMPLES OF ''CONTROLLED IN FACT''

The following examples are intended to give guidance in determining the circumstances in which a foreign subsidiary, affiliate, or other permanent foreign establishment of a domestic concern is ''controlled in fact.'' They are illustrative, not comprehensive.

(i) Company A is incorporated in a foreign country. Fifty-one percent of the voting stock of A is owned by U.S. company B.

A is presumed to be controlled in fact by B. This presumption may be rebutted by competent evidence showing that control does not, in fact, lie with B.

(ii) Company A is incorporated in a foreign country. Ten percent of the voting stock of A is owned by U.S. company B. A has an exclusive management contract with B pursuant to which A is operated by B.

As long as such contract is in effect, A is presumed to be controlled in fact by B. This presumption may be rebutted by competent evidence showing that control does not, in fact, lie with B.

(iii) Company A is incorporated in a foreign country. Ten percent of the voting stock of A is owned by U.S. company B. A has 10 persons on its board of directors. Six of those persons are also members of the board of directors of U.S. company B.

A is presumed to be controlled in fact by B. This presumption may be rebutted by competent evidence showing that control does not, in fact, lie with B.

(iv) Company A is incorporated in a foreign country. Thirty percent of the voting securities of A is owned by U.S. company B and no other person owns or controls an equal or larger share.

A is presumed to be controlled in fact by B. This presumption may be rebutted by competent evidence showing that control does not, in fact, lie with B.

(v) Company A is incorporated in a foreign country. In A's articles of incorporation, U.S. company B has been given authority to appoint A's board of directors.

A is presumed to be controlled in fact by B. This presumption may be rebutted by competent evidence showing that control does not, in fact, lie with B.

(vi) Company A is a joint venture established in a foreign country, with equal participation by U.S. company B and foreign company C. U.S. Company B has authority to appoint A's chief operating officer.

A is presumed to be controlled in fact by B. This presumption may be rebutted by competent evidence showing that control does not, in fact, lie with B.

(vii) Same as (vi), except that B has no authority to appoint A's chief operating officer.

B is not presumed to control A, absent other facts giving rise to a presumption of control.

(viii) Company A is incorporated in a foreign country. U.S. companies B, C, and D each own 20 percent of A's voting securities and regularly cast their votes in concert.

A is presumed to be controlled in fact by B, C, and D, because these companies are acting in concert to control A.

(ix) U.S. bank B located in the United States has a branch office, A, in a foreign country. A is not separately incorporated.

A is deemed to be controlled in fact by B, because A is a branch office of a domestic concern.

(x) Company A is incorporated in a foreign country. Fifty-one percent of the voting stock of A is owned by company B, which is incorporated in another foreign country. Fifty-one percent of the voting stock of B is owned by C, a U.S. company.

Both A and B are presumed to be controlled in fact by C. The presumption of C's control over B may be rebutted by competent evidence showing that control over B does not, in fact, lie with C. The presumption of B's control over A (and thus C's control over A) may be rebutted by competent evidence showing that control over A does not, in fact, lie with B.

(xi) B, a U.S. individual, owns 51 percent of the voting securities of A, a manufacturing company incorporated and located in a foreign country.

A is not ''controlled in fact'' under this part, because it is not controlled by a ''domestic concern.''

(d) *Definition of ''Activities in the Interstate or Foreign Commerce of the United States''.*

ACTIVITIES INVOLVING UNITED STATES PERSONS LOCATED IN THE UNITED STATES

(1) For purposes of this part, the activities of a United States person located in the United States are in the interstate or foreign commerce of the United States if they involve the sale, purchase, or transfer of goods or services (including information) between:

(i) Two or more of the several States (including the District of Columbia);

(ii) Any State (including the District of Columbia) and any territory or possession of the United States;

(iii) Two or more of the territories or possessions of the United States; or

(iv) A State (including the District of Columbia), territory or possession of the United States and any foreign country.

(2) For purposes of this part, the export of goods or services from the United States and the import of goods or services into the United States are activities in United States commerce. In addition, the action of a domestic concern in specifically directing the activities of its controlled in fact foreign subsidiary, affiliate, or other permanent foreign establishment is an activity in United States commerce.

(3) Activities of a United States person located in the United States may be in United States commerce even if they are part of or ancillary to activities outside United States commerce. However, the fact that an ancillary activity is in United States commerce does not, in and of itself, mean that the underlying or related activity is in United States commerce.

(4) Hence, the action of a United States bank located in the United States in providing financing from the United States for a foreign transaction that is not in United States commerce is nonetheless itself in United States commerce. However, the fact that the financing is in United States commerce does not, in and of itself, make the underlying foreign transaction an activity in United States commerce, even if the underlying transaction involves a foreign company that is a *United States person* within the meaning of this part.

(5) Similarly, the action of a United States person located in the United States in providing financial, accounting, legal, t ransportation, or other ancillary services to its controlled in fact foreign subsidiary, affiliate, or other permanent foreign establishment in connection with a foreign transaction is in United States commerce. But the provision of such ancillary services will not, in and of itself, bring the foreign transaction of such subsidiary, affiliate, or permanent foreign establishment into United States commerce.

ACTIVITIES OF CONTROLLED IN FACT FOREIGN SUBSIDIARIES, AFFILIATES, AND OTHER PERMANENT FOREIGN ESTABLISHMENTS

(6) Any transaction between a controlled in fact foreign subsidiary, affiliate, or other permanent foreign establishment of a domestic concern and a person located in the United States is an activity in United States commerce.

(7) Whether a transaction between such a foreign subsidiary, affiliate, or other permanent foreign establishment and a person located outside the United States is an activity in United States commerce is governed by the following rules.

ACTIVITIES IN UNITED STATES COMMERCE

(8) A transaction between a domestic concern's controlled in fact foreign subsidiary, affiliate, or other permanent foreign establishment and a person outside the United States, involving goods or services (including information but not including ancillary services) acquired from a person in the United States is in United States commerce under any of the following circumstances—

(i) If the goods or services were acquired for the purpose of filling an order from a person outside the United States;

(ii) If the goods or services were acquired for incorporation into, refining into, reprocessing into, or manufacture of another product for the purpose of filling an order from a person outside the United States;

(iii) If the goods or services were acquired for the purpose of fulfilling or engaging in any other transaction with a person outside the United States; or

(iv) If the goods were acquired and are ultimately used, without substantial alteration or modification, in filling an order from, or fulfilling or engaging in any other transaction with, a person outside the United States (whether or not the goods were originally acquired for that purpose). If the goods are indistinguishable as to origin from similar foreign-trade goods with which they have been mingled in a stockpile or inventory, the subsequent transaction involving the goods is presumed to be in United States commerce unless, at the time of filling the order, the foreign-origin inventory on hand was sufficient to fill the order.

(9) For purposes of this section, goods or services are considered to be acquired for the purpose of filling an order from or engaging in any other

transaction with a person outside the United States where:

(i) They are purchased by the foreign subsidiary, affiliate, or other permanent foreign establishment upon the receipt of an order from or on behalf of a customer with the intention that the goods or services are to go to the customer;

(ii) They are purchased by the foreign subsidiary, affiliate, or other permanent foreign establishment to meet the needs of specified customers pursuant to understandings with those customers, although not for immediate delivery; or

(iii) They are purchased by the foreign subsidiary, affiliate, or other permanent foreign establishment based on the anticipated needs of specified customers.

(10) If any non-ancillary part of a transaction between a domestic concern's controlled foreign subsidiary, affiliate, or other permanent foreign establishment and a person outside the United States is in United States commerce, the entire transaction is in United States commerce. For example, if such a foreign subsidiary is engaged in filling an order from a non-United States customer both with goods acquired from the United States and with goods acquired elsewhere, the entire transaction with that customer is in United States commerce.

ACTIVITIES OUTSIDE UNITED STATES COMMERCE

(11) A transaction between a domestic concern's controlled foreign subsidiary, affiliate, or other permanent foreign establishment and a person outside the United States, not involving the purchase, sale, or transfer of goods or services (including information) to or from a person in the United States, is not an activity in United States commerce.

(12) The activities of a domestic concern's controlled foreign subsidiary, affiliate, or other permanent foreign establishment with respect to goods acquired from a person in the United States are not in United States commerce where:

(i) They were acquired without reference to a specific order from or transaction with a person outside the United States; and

(ii) They were further manufactured, incorporated into, refined into, or reprocessed into another product.

(13) The activities of a domestic concern's controlled foreign subsidiary, affiliate, or other permanent foreign establishment with respect to services acquired from a person in the United States are not in United States commerce where:

(i) They were acquired without reference to a specific order from or transaction with a person outside the United States; or

(ii) They are ancillary to the transaction with the person outside the United States.

(14) For purposes of this section, services are *ancillary services* if they are provided to a controlled foreign subsidiary, affiliate, or other permanent foreign establishment primarily for its own use rather than for the use of a third person. These typically include financial, accounting, legal,transportation, and other services, whether provided by a domestic concern or an unrelated entity.

(15) Thus, the provision of the project financing by a United States bank located in the United States to a controlled foreign subsidiary unrelated to the bank is an ancillary service which will not cause the underlying transaction to be in United States commerce. By contrast, where a domestic concern, on behalf of its controlled foreign subsidiary, gives a guaranty of performance to a foreign country customer, that is a service provided to the customer and, as such, brings that subsidiary's transaction with the customer into United States commerce. Similarly, architectural or engineering services provided by a domestic concern in connection with its controlled foreign subsidiary's construction project in a third country are services passed through to the subsidiary's customer and, as such, bring that subsidiary's foreign transaction into United States commerce.

GENERAL

(16) Regardless of whether the subsequent disposition of goods or services from the United States is in United

States commerce, the original acquisition of goods or services from a person in the United States is an activity in United States commerce subject to this part. Thus, if a domestic concern's controlled foreign subsidiary engages in a prohibited refusal to do business in stocking its inventory with goods from the United States, that action is subject to this part whether or not subsequent sales from that inventory are.

(17) In all the above, goods and services will be considered to have been acquired from a person in the United States whether they were acquired directly or indirectly through a third party, where the person acquiring the goods or services knows or expects, at the time he places the order, that they will be delivered from the United States.

LETTERS OF CREDIT

(18) Implementation of a letter of credit in the United States by a United States person located in the United States, including a permanent United States establishment of a foreign concern, is an activity in United States commerce.

(19) Implementation of a letter of credit outside the United States by a United States person located outside the United States is in United States commerce where the letter of credit (a) specifies a United States address for the beneficiary, (b) calls for documents indicating shipment from the United States, or (c) calls for documents indicating that the goods are of United States origin.

(20) See § 760.2(f) of this part on ''Letters of Credit'' to determine the circumstances in which paying, honoring, confirming, or otherwise implementing a letter of credit is covered by this part.

EXAMPLES OF ACTIVITIES IN THE INTERSTATE OR FOREIGN COMMERCE OF THE UNITED STATES

The following examples are intended to give guidance in determining the circumstances in which an activity is in the interstate or foreign commerce of the United States. They are illustrative, not comprehensive.

UNITED STATES PERSON LOCATED IN THE UNITED STATES

(i) U.S. company A exports goods from the United States to a foreign country. A's activity is in U.S. commerce, because A is exporting goods from the United States.

(ii) U.S. company A imports goods into the United States from a foreign country. A's activity is in U.S. commerce, because A is importing goods into the United States.

(iii) U.S. engineering company A supplies consulting services to its controlled foreign subsidiary, B. A's activity is in U.S. commerce, because A is exporting services from the United States.

(iv) U.S. company A supplies consulting services to foreign company B. B is unrelated to A or any other U.S. person.

A's activity is in U.S. commerce even though B, a foreign-owned company located outside the United States, is not subject to this part, because A is exporting services from the United States.

(v) Same as (iv), except A is a bank located in the United States and provides a construction loan to B.

A's activity is in U.S. commerce even though B is not subject to this part, because A is exporting financial services from the United States.

(vi) U.S. company A issues policy directives from time to time to its controlled foreign subsidiary, B, governing the conduct of B's activities with boycotting countries.

A's activity in directing the activities of its foreign subsidiary, B, is an activity in U.S. commerce.

FOREIGN SUBSIDIARIES, AFFILIATES, AND OTHER PERMANENT FOREIGN ESTABLISHMENTS OF DOMESTIC CONCERNS

(i) A, a controlled foreign subsidiary of U.S. company B, purchases goods from the United States.

A's purchase of goods from the United States is in U.S. commerce, because A is importing goods from the United States. Whether A's subsequent disposition of these goods is in U.S. commerce is irrelevant. Similarly, the fact that A purchased goods from the United States does not, in and of itself, make any subsequent disposition of those goods an activity in U.S. commerce.

(ii) A, a controlled foreign subsidiary of U.S. company B, receives an order from boycotting country Y for construction materials. A places an order with U.S. company B for the materials.

A's transaction with Y is an activity in U.S. commerce, because the materials are purchased from the United States for the purpose of filling the order from Y.

(iii) A, a controlled foreign subsidiary of U.S. company B, receives an order from boycotting country Y for construction materials. A places an order with U.S. company B

for some of the materials, and with U.S. company C, an unrelated company, for the rest of the materials.

A's transaction with Y is an activity in U.S. commerce, because the materials are purchased from the United States for the purpose of filling the order from Y. It makes no difference whether the materials are ordered from B or C.

(iv) A, a controlled foreign subsidiary of U.S. company B, is in the wholesale and retail appliance sales business. A purchases finished air conditioning units from the United States from time to time in order to stock its inventory. A's inventory is also stocked with air conditioning units purchased outside the United States. A receives an order for air conditioning units from Y, a boycotting country. The order is filled with U.S.-origin units in A's inventory.

A's transaction with Y is in U.S. commerce, because its U.S.-origin goods are resold without substantial alteration.

(v) Same as (iv), except that A is in the chemicals distribution business. Its U.S.-origin goods are mingled in inventory with foreign-origin goods.

A's sale to Y of unaltered goods from its general inventory is presumed to be in U.S. commerce unless A can show that at the time of the sale the foreign-origin inventory on hand was sufficient to cover the shipment to Y.

(vi) A, a foreign subsidiary of U.S. company B, receives an order from boycotting country Y for computers. A places an order with U.S. company B for some of the components; with U.S. company C, an unrelated company, for other components; and with foreign company D for the rest of the components. A then assembles the computers and ships them to Y.

A's transaction with Y is an activity in U.S. commerce, because some of the components are acquired from the United States for purposes of filling an order from Y.

(vii) Same as (vi), except A purchases all the components from non-U.S.sources.

A's transaction with Y is not an activity in U.S. commerce, because it involves no export of goods from the United States. It makes no difference whether the technology A uses to manufacture computers was originally acquired from its U.S. parent.

(viii) A, a controlled foreign subsidiary of U.S. company B, manufactures computers. A stocks its general components and parts inventory with purchases made at times from the United States and at times from foreign sources. A receives an order from Y, a boycotting country, for computers. A fills that order by manufacturing the computers using materials from its general inventory.

A's transaction with Y is not in U.S. commerce, because the U.S.-origin components are not acquired for the purpose of meeting the anticipated needs of specified customers in Y. It is irrelevant that A's operations may be based on U.S.-origin technology.

(ix) Same as (viii), except that in anticipation of the order from Y, A orders and receives the necessary materials from the United States.

A's transaction with Y is in U.S. commerce, because the U.S.-origin goods were acquired for the purpose of filling an anticipated order from Y.

(x) A, a controlled foreign subsidiary of U.S. company B, manufactures typewriters. It buys typewriter components both from the United States and from foreign sources. A sells its output in various places throughout the world, including boycotting country Y. Its sales to Y vary from year to year, but have averaged approximately 20 percent of sales for the past five years. A expects that its sales to Y will remain at approximately that level in the years ahead although it has no contracts or orders from Y on hand.

A's sales of typewriters to Y are not in U.S. commerce, because the U.S. components are not acquired for the purpose of filling an order from Y. A general expectancy of future sales is not an ''order'' within the meaning of this section.

(xi) U.S. company A's corporate counsel provides legal advice to B, its controlled foreign subsidiary, on the applicability of this Part to B's transactions.

While provision of this legal advice is itself an activity in U.S. commerce, it does not, in and of itself, bring B's activities into U.S. commerce.

(xii) A, a controlled foreign subsidiary of U.S. company B, is in the general construction business. A enters into a contract with boycotting country Y to construct a power plant in Y. In preparing engineering drawings and specifications, A uses the advice and assistance of B.

A's transaction with Y is in U.S. commerce, because B's services are used for purposes of fulfilling the contract with Y. B's services are not ancillary services, because the engineering services in connection with construction of the power plant are part of the services ultimately provided to Y by A.

(xiii) Same as (xii), except that A gets no engineering advice or assistance from B. However, B's corporate counsel provides legal advice to A regarding the structure of the transaction. In addition, B's corporate counsel draws up the contract documents.

A's transaction with Y is not in U.S. commerce. The legal services provided to A are ancillary services, because they are not part of the services provided to Y by A in fulfillment of its contract with Y.

(xiv) A, a controlled foreign subsidiary of U.S. company B, enters into a contract to construct an apartment complex in boycotting country Y. A will fulfill its contract completely with goods and services from

outside the United States. Pursuant to a provision in the contract, B guarantees A's performance of the contract.

A's transaction with Y is in U.S. commerce, because B's guaranty of A's performance involves the acquisition of services from the United States for purposes of fulfilling the transaction with Y, and those services are part of the services ultimately provided to Y.

(xv) Same as (xiv), except that the guaranty of A's performance is supplied by C, a non-U.S. person located outside the United States. However, unrelated to any particular transaction, B from time to time provides general financial, legal, and technical services to A.

A's transaction with Y is not in U.S. commerce, because the services acquired from the United States are not acquired for purposes of fulfilling the contract with Y.

(xvi) A, a foreign subsidiary of U.S. company B, has a contract with boycotting country Y to conduct oil drilling operations in that country. In conducting these operations, A from time to time seeks certain technical advice from B regarding the operation of the drilling rigs.

A's contract with Y is in U.S. commerce, because B's services are sought for purposes of fulfilling the contract with Y and are part of the services ultimately provided to Y.

(xvii) A, a controlled foreign subsidiary of U.S. company B, enters into a contract to sell typewriters to boycotting country Y. A is located in non-boycotting country P. None of the components are acquired from the United States. A engages C, a U.S. shipping company, to transport the typewriters from P to Y.

A's sales to Y are not in U.S. commerce, because in carrying A's goods, C is providing an ancillary service to A and not a service to Y.

(xviii) Same as (xvii), except that A's contract with Y calls for title to pass to Y in P. In addition, the contract calls for A to engage a carrier to make delivery to Y.

A's sales to Y are in U.S. commerce, because in carrying Y's goods, C is providing a service to A which is ultimately provided to Y.

(xix) A, a controlled foreign subsidiary of U.S. company B, has general product liability insurance with U.S. company C. Foreign-origin goods sold from time to time by A to boycotting country Y are covered by the insurance policy.

A's sales to Y are not in U.S. commerce, because the insurance provided by C is an ancillary service provided to A which is not ultimately provided to Y.

(xx) A, a controlled foreign subsidiary of U.S. company B, manufactures automobiles abroad under a license agreement with B. From time to time, A sells such goods to boycotting country Y.

A's sales to Y are not in U.S. commerce, because the rights conveyed by the license are not acquired for the specific purpose of engaging in transactions with Y.

(e) ''*Intent*''. (1) This part prohibits a United States person from taking or knowingly agreeing to take certain specified actions with intent to comply with, further, or support an unsanctioned foreign boycott.

(2) A United States person has the intent to comply with, further, or support an unsanctioned foreign boycott when such a boycott is at least one of the reasons for that person's decision whether to take a particular prohibited action. So long as that is at least one of the reasons for that person's action, a violation occurs regardless of whether the prohibited action is also taken for non-boycott reasons. Stated differently, the fact that such action was taken for legitimate business reasons does not remove that action from the scope of this part if compliance with an unsanctioned foreign boycott was also a reason for the action.

(3) Intent is a necessary element of any violation of any of the prohibitions under § 760.2. It is not sufficient that one take action that is specifically prohibited by this part. It is essential that one take such action with intent to comply with, further,or support an unsanctioned foreign boycott. Accordingly, a person who inadvertently, without boycott intent, takes a prohibited action, does not commit any violation of this part.

(4) Intent in this context means the reason or purpose for one's behavior. It does not mean that one has to agree with the boycott in question or desire that it succeed or that it be furthered or supported. But it does mean that the reason why a particular prohibited action was taken must be established.

(5) Reason or purpose can be proved by circumstantial evidence. For example, if a person receives a request to supply certain boycott information, the furnishing of which is prohibited by this part, and he knowingly supplies that information in response, he clearly intends to comply with that boycott request. It is irrelevant that he may disagree with or object to the boycott itself. Information will be deemed to be furnished with the requisite intent if

the person furnishing the information knows that it was sought for boycott purposes. On the other hand, if a person refuses to do business with someone who happens to be blacklisted, but the reason is because that person produces an inferior product, the requisite intent does not exist.

(6) Actions will be deemed to be taken with intent to comply with an unsanctioned foreign boycott if the person taking such action knew that such action was required or requested for boycott reasons. On the other hand, the mere absence of a business relationship with a blacklisted person or with or in a boycotted country does not indicate the existence of the requisite intent.

(7) In seeking to determine whether the requisite intent exists, all available evidence will be examined.

EXAMPLES OF ''INTENT''

The following examples are intended to illustrate the factors which will be considered in determining whether the required intent exists. They are illustrative, not comprehensive.

(i) U.S. person A does business in boycotting country Y. In selecting firms to supply goods for shipment to Y, A chooses supplier B because B's products are less expensive and of higher quality than the comparable products of supplier C. A knows that C is blacklisted, but that is not a reason for A's selection of B.

A's choice of B rather than C is not action with intent to comply with Y's boycott, because C's blacklist status is not a reason for A's action.

(ii) Same as (i), except that A chooses B rather than C in part because C is blacklisted by Y.

Since C's blacklist status is a reason for A's choice, A's action is taken with intent to comply with Y's boycott.

(iii) U.S. person A bids on a tender issued by boycotting country Y. A inadvertently fails to notice a prohibited certification which appears in the tender document. A's bid is accepted.

A's action in bidding was not taken with intent to comply with Y's boycott, because the boycott was not a reason for A's action.

(iv) U.S. bank A engages in letter of credit transactions, in favor of U.S. beneficiaries, involving the shipments of U.S. goods to boycotting country Y. As A knows, such letters of credit routinely contain conditions requiring prohibited certifications. A fails to take reasonable steps to prevent the implementation of such letters of credit. A receives for implementation a letter of credit which in fact contains a prohibited condition but does not examine the letter of credit to determine whether it contains such a condition.

Although Y's boycott may not be a specific reason for A's action in implementing the letter of credit with a prohibited condition, all available evidence shows that A's action was taken with intent to comply with the boycott, because A knows or should know that its procedures result in compliance with the boycott.

(v) U.S. bank A engages in letter of credit transactions, in favor of U.S. beneficiaries, involving the shipment of U.S. goods to boycotting country Y. As A knows, the documentation accompanying such letters of credit sometimes contains prohibited certifications. In accordance with standard banking practices applicable to A, it does not examine such accompanying documentation. A receives a letter of credit in favor of a U.S. beneficiary. The letter of credit itself contains no prohibited conditions. However, the accompanying documentation, which A does not examine, does contain such a condition.

All available evidence shows that A's action in implementing the letter of credit was not taken with intent to comply with the boycott, because A has no affirmative obligation to go beyond applicable standard banking practices in implementing letters of credit.

(vi) A, a U.S. company, is considering opening a manufacturing facility in boycotted country X. A already has such a facility in boycotting country Y. After exploring the possibilities in X, A concludes that the market does not justify the move. A is aware that if it did open a plant in X, Y might object because of Y's boycott of X. However Y's possible objection is not a reason for A's decision not to open a plant in X.

A's decision not to proceed with the plant in X is not action with intent to comply with Y's boycott, because Y's boycott of X is not a reason for A's decision.

(vii) Same as (vi), except that after exploring the business possibilities in X, A concludes that the market does justify the move to X. However, A does not open the plant because of Y's possible objections due to Y's boycott of X.

A's decision not to proceed with the plant in X is action taken with intent to comply with Y's boycott, because Y's boycott is a reason for A's decision.

(viii) A, a U.S. chemical manufacturer, receives a ''boycott questionnaire'' from boycotting country Y asking, among other things, whether A has any plants located in boycotted country X. A, which has never supported Y's boycott of X, responds to Y's questionnaire, indicating affirmatively that it does have plants in X and that it intends to continue to have plants in X.

A's responding to Y's questionnaire is deemed to be action with intent to comply with Y's boycott because A knows that the questionnaire is boycott-related. It is irrelevant that A does not also wish to support Y's boycott.

(ix) U.S. company A has a manufacturing facility in boycotted country X. A receives an invitation to bid on a construction project in boycotting country Y. The invitation states that all bidders must complete a boycott questionnaire and send it in with the bid. The questionnaire asks for information about A's business relationships with X. Regardless of whether A's bid is successful, A intends to continue its business in X undiminished and in fact is exploring and intends to continue exploring an expansion of its activities in X without regard to Y's boycott.

A may not answer the questionnaire, because, despite A's intentions with regard to its business operations in X, Y's request for completion of the questionnaire is for boycott purposes and by responding, A's action would be taken with intent to comply with Y's boycott.

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§ 760.2 Prohibitions.

(a) *Refusals to do business.*

PROHIBITION AGAINST REFUSALS TO DO BUSINESS

(1) No United States person may: refuse, knowingly agree to refuse, require any other person to refuse, or knowingly agree to require any other person to refuse, to do business with or in a boycotted country, with any business concern organized under the laws of a boycotted country, with any national or resident of a boycotted country, or with any other person, when such refusal is pursuant to an agreement with the boycotting country, or a requirement of the boycotting country, or a request from or on behalf of the boycotting country.

(2) Generally, a refusal to do business under this section consists of action that excludes a person or country from a transaction for boycott reasons. This includes a situation in which a United States person chooses or selects one person over another on a boycott basis or takes action to carry out another person's boycott-based selection when he knows or has reason to know that the other person's selection is boycott-based.

(3) Refusals to do business which are prohibited by this section include not only specific refusals, but also refusals implied by a course or pattern of conduct. There need not be a specific offer and refusal to constitute a refusal to do business; a refusal may occur when a United States person has a financial or commercial opportunity and declines for boycott reasons to consider or accept it.

(4) A United States person's use of either a boycott-based list of persons with whom he will not deal (a so-called ''blacklist'') or a boycott-based list of persons with whom he will deal (a so-called ''whitelist'') constitutes a refusal to do business.

(5) An agreement by a United States person to comply generally with the laws of the boycotting country with which it is doing business or an agreement that local laws of the boycotting country shall apply or govern is not, in and of itself, a refusal to do business. Nor, in and of itself, is use of a contractual clause explicitly requiring a person to assume the risk of loss of non-delivery of his products a refusal to do business with any person who will not or cannot comply with such a clause. (But see § 760.4 of this part on ''Evasion.'')

(6) If, for boycott reasons, a United States general manager chooses one supplier over another, or enters into a contract with one supplier over another, or advises its client to do so, then the general manager's actions constitute a refusal to do business under this section. However, it is not a refusal to do business under this section for a United States person to provide management, procurement, or other pre-award services for another person so long as the provision of such pre-award services is customary for that firm (or industry of which the firm is a part), without regard to the boycotting or non-boycotting character of the countries in which they are performed, and the United States person, in providing such services, does not act to exclude a person or country from the transaction for boycott reasons, or otherwise take actions that are boycott-based. For example, a

United States person under contract to provide general management services in connection with a construction project in a boycotting country may compile lists of qualified bidders for the client if that service is a customary one and if persons who are qualified are not excluded from that list because they are blacklisted.

(7) With respect to post-award services, if a client makes a boycott-based selection, actions taken by the United States general manager or contractor to carry out the client's choice are themselves refusals to do business if the United States contractor knows or has reason to know that the client's choice was boycott-based. (It is irrelevant whether the United States contractor also provided pre-award services.) Such actions include entering into a contract with the selected supplier, notifying the supplier of the client's choice, executing a contract on behalf of the client, arranging for inspection and shipment of the supplier's goods, or taking any other action to effect the client's choice. (But see § 760.3(d) on ''Compliance with Unilateral Selection'' as it may apply to post-award services.)

(8) An agreement is not a prerequisite to a violation of this section since the prohibition extends to actions taken pursuant not only to agreements but also to requirements of, and requests from or on behalf of, a boycotting country.

(9) Agreements under this section may be either express or implied by a course or pattern of conduct. There need not be a direct request from a boycotting country for action by a United States person to have been taken pursuant to an agreement with or requirement of a boycotting country.

(10) This prohibition, like all others, applies only with respect to a United States person's activities in the interstate or foreign commerce of the United States and only when such activities are undertaken with intent to comply with, further, or support an unsanctioned foreign boycott. The mere absence of a business relationship with or in the boycotted country, with any business concern organized under the laws of the boycotted country, with national(s) or resident(s) of the boycotted country, or with any other person does not indicate the existence of the required intent.

EXAMPLES OF REFUSALS AND AGREEMENTS TO REFUSE TO DO BUSINESS

The following examples are intended to give guidance in determining the circumstances in which, in a boycott situation, a refusal to do business or an agreement to refuse to do business is prohibited. They are illustrative, not comprehensive.

REFUSALS TO DO BUSINESS

(i) A, a U.S. manufacturer, receives an order for its products from boycotting country Y. To fill that order, A solicits bids from U.S. companies B and C, manufacturers of components used in A's products. A does not, however, solicit bids from U.S. companies D or E, which also manufacture such components, because it knows that D and E are restricted from doing business in Y and that their products are, therefore, not importable into that country.

Company A may not refuse to solicit bids from D and E for boycott reasons, because to do so would constitute a refusal to do business with those persons.

(ii) A, a U.S. exporter, uses company B, a U.S. insurer, to insure the shipment of its goods to all its overseas customers. For the first time, A receives an order for its products from boycotting country Y. Knowing that B is on the blacklist of Y, A arranges with company C, a non-blacklisted U.S. insurer, to insure the shipment of its goods to Y.

A's action constitutes a refusal to do business with B.

(iii) A, a U.S. exporter, purchases all its liability insurance from company B, a U.S. company that does business in boycotted country X. A wishes to expand its operations into country Y, the boycotting country. Before doing so, A decides to switch from insurer B to insurer C in anticipation of a request from Y that A sever its relations with B as a condition of doing business in Y.

A may not switch insurers for this reason, because doing so would constitute a refusal to do business with B.

(iv) U.S. company A exports goods to boycotting country Y. In selecting vessels to transport the goods to Y, A chooses only from among carriers which call at ports in Y.

A's action is not a refusal to do business with carriers which do not call at ports in Y.

(v) A, a U.S. bank with a branch office in boycotting country Y, sends representatives to boycotted country X to discuss plans for opening a branch office in X. Upon learning of these discussions, an official of the local boycott office in Y advises A's local branch manager that if A opens an office in X it will

no longer be allowed to do business in Y. As a result of this notification, A decides to abandon its plans to open a branch in X.

Bank A may not abandon its plans to open a branch in X as a result of Y's notification, because doing so would constitute a refusal to do business in boycotted country X.

(vi) A, a U.S. company that manufactures office equipment, has been restricted from doing business in boycotting country Y because of its business dealings with boycotted country X. In an effort to have itself removed from Y's blacklist, A ceases its business in X.

A's action constitutes a refusal to do business in boycotted country X.

(vii) A, a U.S. computer company, does business in boycotting country Y. A decides to explore business opportunities in boycotted country X. After careful analysis of possible business opportunities in X, A decides, solely for business reasons, not to market its products in X.

A's decision not to proceed is not a refusal to do business, because it is not based on boycott considerations. A has no affirmative obligation to do business in X.

(viii) A, a U.S. oil company with operations in boycotting country Y, has regularly purchased equipment from U.S. petroleum equipment suppliers B, C, and D, none of whom is on the blacklist of Y. Because of its satisfactory relationship with B, C, and D, A has not dealt with other suppliers, including supplier E, who is blacklisted by Y.

A's failure affirmatively to seek or secure business with blacklisted supplier E is not a refusal to do business with E.

(ix) Same as (viii), except U.S. petroleum equipment supplier E, a company on boycotting country Y's blacklist, offers to supply U.S. oil company A with goods comparable to those provided by U.S. suppliers B, C, and D. A, because it has satisfactorily, established relationships with suppliers B, C, and D, does not accept supplier E's offer.

A's refusal of supplier E's offer is not a refusal to do business, because it is based solely on non-boycott considerations. A has no affirmative obligation to do business with E.

(x) A, a U.S. construction company, enters into a contract to build an office complex in boycotting country Y. A receives bids from B and C, U.S. companies that are equally qualified suppliers of electrical cable for the project. A knows that B is blacklisted by Y and that C is not. A accepts C's bid, in part because C is as qualified as the other potential supplier and in part because C is not blacklisted.

A's decision to select supplier C instead of blacklisted supplier B is a refusal to do business, because the boycott was one of the reasons for A's decision.

(xi) A, a U.S. general contractor, has been retained to construct a highway in boycotting country Y. A circulates an invitation to bid to U.S. manufacturers of road-building equipment. One of the conditions listed in the invitation to bid is that, in order for A to obtain prompt service, suppliers will be required to maintain a supply of spare parts and a service facility in Y. A includes this condition solely for commercial reasons unrelated to the boycott. Because of this condition, however, those suppliers on Y's blacklist do not bid, since they would be unable to satisfy the parts and services requirements.

A's action is not a refusal to do business, because the contractual condition was included solely for legitimate business reasons and was not boycott-based.

(xii) Company A, a U.S. oil company, purchases drill bits from U.S. suppliers for export to boycotting country Y. In its purchase orders, A includes a provision requiring the supplier to make delivery to A's facilities in Y and providing that title to the goods does not pass until delivery has been made. As is customary under such an arrangement, the supplier bears all risks of loss, including loss from fire, theft, perils of the sea, and inability to clear customs, until title passes.

Insistence on such an arrangement does not constitute a refusal to do business, because this requirement is imposed on all suppliers whether they are blacklisted or not. (But see § 760.4 on ''Evasion''.)

(xiii) A, a U.S. engineering and construction company, contracts with a government agency in boycotting country Y to perform a variety of services in connection with the construction of a large industrial facility in Y. Pursuant to this contract, A analyzes the market of prospective suppliers, compiles a suggested bidders list, analyzes the bids received, and makes recommendations to the client. The client independently selects and awards the contract to supplier C for boycott reasons. All of A's services are performed without regard to Y's blacklist or any other boycott considerations, and are the type of services A provides clients in both boycotting and non-boycotting countries.

A's actions do not constitute a refusal to do business, because, in the provision of pre-award services, A has not excluded the other bidders and because A customarily provides such services to its clients.

(xiv) Same as (xiii), except that in compiling a list of prospective suppliers, A deletes suppliers he knows his client will refuse to select because they are blacklisted. A knows that including the names of blacklisted suppliers will neither enhance their chances of being selected nor provide his client with a useful service, the function for which he has been retained.

A's actions, which amount to furnishing a so-called ''whitelist'', constitute refusals to do business, because A's pre-award services have not been furnished without regard to boycott considerations.

(xv) A, a U.S. construction firm, provides its boycotting country client with a permissible list of prospective suppliers, B, C, D, and E. The client independently selects and awards the contract to C, for boycott reasons, and then requests A to advise C of his selection, negotiate the contract with C, arrange for the shipment, and inspect the goods upon arrival. A knows that C was chosen by the client for boycott reasons.

A's action in complying with his client's direction is a refusal to do business, because A's post-award actions carry out his client's boycott-based decision. (Note: Whether A's action comes within the unilateral selection exception depends upon factors discussed in § 760.3(d) of this part).

(xvi) Same as (xv), except that A is building the project on a turnkey basis and will retain title until completion. The client instructs A to contract only with C.

A's action in contracting with C constitutes a refusal to do business, because it is action that excludes blacklisted persons from the transaction for boycott reasons. (Note: Whether A's action comes within the unilateral selection exception depends upon factors discussed in § 760.3(d) of this part).

(xvii) A, a U.S. exporter of machine tools, receives an order for drill presses from boycotting country Y. The cover letter from Y's procurement official states that A was selected over other U.S. manufacturers in part because A is not on Y's blacklist.

A's action in filling this order is not a refusal to do business, because A has not excluded anyone from the transaction.

(xviii) A, a U.S. engineering firm under contract to construct a dam in boycotting country Y, compiles, on a non-boycott basis, a list of potential heavy equipment suppliers, including information on their qualifications and prior experience. A then solicits bids from the top three firms on its list—B, C, and D—because they are the best qualified. None of them happens to be blacklisted. A does not solicit bids from E, F, or G, the next three firms on the list, one of whom is on Y's blacklist.

A's decision to solicit bids from only B, C, and D, is not a refusal to do business with any person, because the solicited bidders were not selected for boycott reasons.

(xix) U.S. bank A receives a letter of credit in favor of U.S. beneficiary B. The letter of credit requires B to certify that he is not blacklisted. B meets all other conditions of the letter of credit but refuses to certify as to his blacklist status. A refuses to pay B on the letter of credit solely because B refuses to certify as to his blacklist status.

A has refused to do business with another person pursuant to a boycott requirement or request.

(xx) U.S. bank A receives a letter of credit in favor of U.S. beneficiary B. The letter of credit requires B to provide a certification from the steamship line that the vessel carrying the goods is not blacklisted. B seeks payment from A and meets all other conditions of the letter of credit but refuses or is unable to provide the certification from the steamship line about the vessel's blacklist status. A refuses to pay B on the letter of credit solely because B cannot or will not provide the certification.

A has required another person to refuse to do business pursuant to a boycott requirement or request by insisting that B obtain such a certificate. (Either A or B may request an amendment to the letter of credit substituting a certificate of vessel eligibility, however. See Example (xxi) below).

(xxi) U.S. bank A receives a letter of credit from a bank in boycotting country Y in favor of U.S. beneficiary B. The letter of credit requires B to provide a certification from the steamship line that the vessel carrying the goods is eligible to enter the ports in Y. B seeks payment from A and meets all other conditions of the letter of credit. A refuses to pay B solely because B cannot or will not provide the certification.

A has neither refused, nor required another person to refuse, to do business with another person pursuant to a boycott requirement or request because a request for a vessel eligibility certificate to be furnished by the steamship line is not a prohibited condition. (See supplement no. 1 to this part, paragraph (I)(B), ''Shipping Certificate''.)

(xxii) U.S. bank A confirms a letter of credit in favor of U.S. beneficiary B. The letter of credit contains a requirement that B certify that he is not blacklisted. B presents the letter of credit to U.S. bank C, a correspondent of bank A. B does not present the certificate of blacklist status to bank C, but, in accordance with these rules, bank C pays B, and then presents the letter of credit and documentation to bank A for reimbursement. Bank A refuses to reimburse bank C because the blacklist certification of B is not included in the documentation.

A has required another person to refuse to do business with a person pursuant to a boycott requirement or request by insisting that C obtain the certificate from B.

(xxiii) U.S. bank A receives a letter of credit in favor of U.S. beneficiary B. The letter of credit requires B to certify that he is not blacklisted. B fails to provide such a certification when he presents the documents to A for payment. A notifies B that the certification has not been submitted.

A has not refused to do business with another person pursuant to a boycott requirement by notifying B of the omitted certificate. A may not refuse to pay on the letter of credit, however, if B states that B will not provide such a certificate.

(xxiv) U.S. bank A receives a letter of credit in favor of U.S. beneficiary B from the issuing bank for the purpose of confirmation,

negotiation or payment. The letter of credit requires B to certify that he is not blacklisted. A notifies B that it is contrary to the policy of A to handle letters of credit containing this condition and that, unless an amendment is obtained deleting this condition, A will not implement the letter of credit.

A has not refused to do business with another person pursuant to a boycott requirement, because A has indicated its policy against implementing the letter of credit containing the term without regard to B's ability or willingness to furnish such a certificate.

AGREEMENTS TO REFUSE TO DO BUSINESS

(i) A, a U.S. construction firm, is retained by an agency of boycotting country Y to build a primary school. The proposed contract contains a clause stating that A ''may not use goods or services in the project that are produced or provided by any person restricted from having a business relationship with country Y by reason of Y's boycott against country X''.

A's action in entering into such a contract would constitute an agreement to refuse to do business, because it is an agreement to exclude blacklisted persons from the transaction. A may, however, renegotiate this clause so that it does not contain terms prohibited by this part.

(ii) A, a U.S. manufacturer of commercial refrigerators and freezers, receives an invitation to bid from boycotting country Y. The tender states that the bidder must agree not to deal with companies on Y's blacklist. A does not know which companies are on the blacklist; however, A submits a bid without taking exception to the boycott conditions. A's bid makes no commitment regarding not dealing with certain companies.

At the point when A submits its bid without taking exception to the boycott request in Y's tender, A has agreed to refuse to do business with blacklisted persons, because the terms of Y's tender require A to agree to refuse to do business.

(iii) A, a U.S. construction firm, is offered a contract to perform engineering and construction services in connection with a project located in boycotting country Y. The contract contains a clause stating that, in the event of a contract dispute, the laws of Y will apply.

A may enter into the contract. Agreement that the laws of boycotting country Y will control in resolving a contract dispute is not an agreement to refuse to do business.

(iv) Same as (iii), except that the contract contains a clause that A and its employees will comply with the laws of boycotting country Y. A knows that Y has a number of boycott laws.

Such an agreement is not, in and of itself, an agreement to refuse to do business. If, however, A subsequently refuses to do business with someone because of the laws of Y, A's action would be a refusal to do business.

(v) Same as (iv), except that the contract contains a clause that A and its employees will comply with the laws of boycotting country Y, ''including boycott laws.''

A's agreeing, without qualification, to comply with local boycott laws constitutes an agreement to refuse to do business.

(vi) Same as (v), except that A inserts a proviso ''except insofar as Y's laws conflict with U.S. laws,'' or words to that effect.

Such an agreement is not an agreement to refuse to do business.

(vii) A, a U.S. general contractor, is retained to construct a pipeline in boycotting country Y. A provision in the proposed contract stipulates that in purchasing equipment, supplies, and services A must give preference to companies located in host country Y.

A may agree to this contract provision. Agreeing to a ''buy local'' contract provision is not an agreement to refuse to do business, because A's agreement is not made for boycott reasons.

(viii) A, a U.S. exporter planning to sell retail goods to customers in boycotting country Y, enters into a contract to purchase goods wholesale from B, a U.S. appliance manufacturer. A's contract with B includes a provision stipulating that B may not use components or services of blacklisted companies in the manufacture of its appliances.

A's contract constitutes a refusal to do business, because it would require another person, B, to refuse to do business with other persons for boycott reasons. B may not agree to such a contract, because it would be agreeing to refuse to do business with other persons for boycott reasons.

(ix) Same as (viii), except that A and B reach an implicit understanding that B will not use components or services of blacklisted companies in the manufacture of goods to be exported to Y. In the manufacture of appliances to be sold to A for export to non-boycotting countries, B uses components manufactured by blacklisted companies.

The actions of both A and B constitute agreement to refuse to do business. The agreement is implied by their pattern of conduct.

(x) Boycotting country Y orders goods from U.S. company B. Y opens a letter of credit with foreign bank C in favor of B. The letter of credit specifies that negotiation of the letter of credit with a bank that appears on the country X boycott blacklist is prohibited. U.S. bank A, C's correspondent bank, advises B of the letter of credit. B presents documentation to bank A seeking to be paid on the letter of credit, without amending or otherwise taking exception to the boycott condition.

B has agreed to refuse to do business with blacklisted banks because, by presenting the letter of credit for payment, B has accepted all of its terms and conditions.

(b) *Discriminatory actions.*

PROHIBITION AGAINST TAKING DISCRIMINATORY ACTIONS

(1) No United States person may:

(i) Refuse to employ or otherwise discriminate against any individual who is a United States person on the basis of race, religion, sex, or national origin;

(ii) Discriminate against any corporation or other organization which is a United States person on the basis of the race, religion, sex, or national origin of any owner, officer, director, or employee of such corporation or organization;

(iii) Knowingly agree to take any of the actions described in paragraph (b)(1)(i) and (ii) of this section; or

(iv) Require or knowingly agree to require any other person to take any of the actions described in paragraph (b)(1)(i) and (ii) of this section.

(2) This prohibition shall apply whether the discriminatory action is taken by a United States person on its own or in response to an agreement with, request from, or requirement of a boycotting country. This prohibition, like all others, applies only with respect to a United States person's activities in the interstate or foreign commerce of the United States and only when such activities are undertaken with intent to comply with, further, or support an unsanctioned foreign boycott.

(3) The section does not supersede or limit the operation of the civil rights laws of the United States.

EXAMPLES OF DISCRIMINATORY ACTIONS

The following examples are intended to give guidance in determining the circumstances in which the taking of particular discriminatory actions is prohibited. They are illustrative, not comprehensive.

(i) U.S. construction company A is awarded a contract to build an office complex in boycotting country Y. A, believing that employees of a particular religion will not be permitted to work in Y because of Y's boycott against country X, excludes U.S. persons of that religion from consideration for employment on the project.

A's refusal to consider qualified U.S. persons of a particular religion for work on the project in Y constitutes a prohibited boycott-based discriminatory action against U.S. persons on the basis of religion.

(ii) Same as (i), except that a clause in the contract provides that ''no persons of country X origin are to work on this project.''

A's agreement constitutes a prohibited boycott-based agreement to discriminate against U.S. persons, among others, on the basis of national origin.

(iii) Same as (i), except that a clause in the contract provides that ''no persons who are citizens, residents, or nationals of country X are to work on this project.''

A's agreement does not constitute a boycott-based agreement to discriminate against U.S. persons on the basis of race, religion, sex, or national origin, because the clause requires exclusion on the basis of citizenship, residency, and nationality only.

(iv) U.S. construction company A enters into a contract to build a school in boycotting country Y. Y's representative orally tells A that no persons of country X origin are to work on the project.

A may not comply, because to do so would constitute discrimination on the basis of national origin.

It makes no difference that A learned of Y's requirement orally. It makes no difference how A learns about Y's discriminatory requirement.

(v) Boycotting country Y tenders an invitation to bid on a construction project in Y. The tender requires that the successful bidder's personnel will be interviewed and that persons of a particular religious faith will not be permitted to work on the project. Y's requirement is based on its boycott of country X, the majority of whose citizens are of that particular faith.

Agreement to this provision in the tender document by a U.S. person would constitute a prohibited agreement to engage in boycott-based discrimination against U.S. persons of a particular religion.

(vi) Same as (v), except that the tender specifies that ''women will not be allowed to work on this project.''

Agreement to this provision in the tender by a U.S. person does not constitute a prohibited agreement to engage in boycott-based discrimination, because the restriction against employment of women is not boycott-based. Such an agreement may, however, constitute a violation of U.S. civil rights laws.

(vii) A is a U.S. investment banking firm. As a condition of participating in an underwriting of securities to be issued by boycotting country Y, A is required to exclude

investment banks owned by persons of a particular faith from participation in the underwriting. Y's requirement is based on its boycott of country X, the majority of whose citizens are of that particular faith.

A's agreement to such a provision constitutes a prohibited agreement to engage in boycott-based discrimination against U.S. persons on the basis of religion. Further, if A requires others to agree to such a condition, A would be acting to require another person to engage in such discrimination.

(viii) U.S. company A is asked by boycotting country Y to certify that A will not use a six-pointed star on the packaging of its products to be imported into Y. The requirement is part of the enforcement effort by Y of its boycott against country X.

A may not so certify. The six-pointed star is a religious symbol, and the certification by A that it will not use such a symbol constitutes a statement that A will not ship products made or handled by persons of that religion.

(ix) Same as (viii), except that A is asked to certify that no symbol of boycotted country X will appear on the packaging of its products imported into Y.

Such a certification conveys no statement about any person's religion and, thus, does not come within this prohibition.

(c) *Furnishing information about race, religion, sex, or national origin.*

PROHIBITION AGAINST FURNISHING INFORMATION ABOUT RACE, RELIGION, SEX, OR NATIONAL ORIGIN

(1) No United States person may:

(i) Furnish information about the race, religion, sex, or national origin of any United States person;

(ii) Furnish information about the race, religion, sex, or national origin of any owner, officer, director, or employee of any corporation or other organization which is a United States person;

(iii) Knowingly agree to furnish information about the race, religion, sex, or national origin of any United States person; or

(iv) Knowingly agree to furnish information about the race, religion, sex, or national origin of any owner, officer, director, or employee of any corporation or other organization which is a United States person.

(2) This prohibition shall apply whether the information is specifically requested or is offered voluntarily by the United States person. It shall also apply whether the information requested or volunteered is stated in the affirmative or the negative.

(3) Information about the place of birth of or the nationality of the parents of a United States person comes within this prohibition, as does information in the form of code words or symbols which could identify a United States person's race, religion, sex, or national origin.

(4) This prohibition, like all others, applies only with respect to a United States person's activities in the interstate or foreign commerce of the United States and only when such activities are undertaken with intent to comply with, further, or support an unsanctioned foreign boycott.

EXAMPLES OF THE PROHIBITION AGAINST FURNISHING DISCRIMINATORY INFORMATION

The following examples are intended to give guidance in determining the circumstances in which the furnishing of discriminatory information is prohibited. They are illustrative, not comprehensive.

(i) U.S. company A receives a boycott questionnaire from boycotting country Y asking whether it is owned or controlled by persons of a particular faith, whether it has any persons on its board of directors who are of that faith, and what the national origin of its president is. The information is sought for purposes of enforcing Y's boycott against country X, and A knows or has reason to know that the information is sought for that reason.

A may not answer the questionnaire, because A would be furnishing information about the religion and national origin of U.S. persons for purposes of complying with or supporting Y's boycott against X.

(ii) U.S. company A, located in the United States, is asked by boycotting country Y to certify that A has no persons of a particular national origin on its board of directors. A knows that Y's purpose in asking for the certification is to enforce its boycott against country X.

A may not make such a certification, because A would be furnishing information about the national origin of U.S. persons for purposes of complying with or supporting Y's boycott against X.

(iii) U.S. company A believes that boycotting country Y will select A's bid over those of other bidders if A volunteers that it has no shareholders, officers, or directors of a particular national origin. A's belief is based on its knowledge that Y generally refuses, as part of its boycott against country X, to do business with companies owned, controlled, or managed by persons of this particular national origin.

A may not volunteer this information, because it would be furnishing information about the national origin of U.S. persons for purposes of complying with or supporting Y's boycott against X.

(iv) U.S. company A has a contract to construct an airport in boycotting country Y. Before A begins work, A is asked by Y to identify the national origin of its employees who will work on the site. A knows or has reason to know that Y is seeking this information in order to enforce its boycott against X.

A may not furnish this information, because A would be providing information about the national origin of U.S. persons for purposes of complying with or supporting Y's boycott against X.

(v) Same as (iv), except that in order to assemble its work force on site in Y, A sends visa forms to its employees and asks that the forms be returned to A for transmittal to Y's consulate or embassy. A, itself, furnishes no information about its employees, but merely transmits the visa forms back and forth.

In performing the ministerial function of transmitting visa forms, A is not furnishing information about any U.S. person's race, religion, sex, or national origin.

(vi) Same as (iv), except that A is asked by Y to certify that none of its employees in Y will be women, because Y's laws prohibit women from working.

Such a certification does not constitute a prohibited furnishing of information about any U.S. person's sex, since the reason the information is sought has nothing to do with Y's boycott of X.

(vii) U.S. company A is considering establishing an office in boycotting country Y. In order to register to do business in Y, A is asked to furnish information concerning the nationalities of its corporate officers and board of directors.

A may furnish the information about the nationalities of its officers and directors, because in so doing A would not be furnishing information about the race, religion, sex, or national origin of any U.S. person.

(d) *Furnishing information about business relationships with boycotted countries or blacklisted persons.*

PROHIBITION AGAINST FURNISHING INFORMATION ABOUT BUSINESS RELATIONSHIPS WITH BOYCOTTED COUNTRIES OR BLACKLISTED PERSONS

(1) No United States person may furnish or knowingly agree to furnish information concerning his or any other person's past, present or proposed business relationships:

(i) With or in a boycotted country;

(ii) With any business concern organized under the laws of a boycotted country;

(iii) With any national or resident of a boycotted country; or

(iv) With any other person who is known or believed to be restricted from having any business relationship with or in a boycotting country.

(2) This prohibition shall apply:

(i) Whether the information pertains to a business relationship involving a sale, purchase, or supply transaction; legal or commercial representation; shipping or other transportation transaction; insurance; investment; or any other type of business transaction or relationship; and

(ii) Whether the information is directly or indirectly requested or is furnished on the initiative of the United States person.

(3) This prohibition does not apply to the furnishing of normal business information in a commercial context. Normal business information may relate to factors such as financial fitness, technical competence, or professional experience, and may be found in documents normally available to the public such as annual reports, disclosure statements concerning securities, catalogs, promotional brochures, and trade and business handbooks. Such information may also appear in specifications or statements of experience and qualifications.

(4) Normal business information furnished in a commercial context does not cease to be such simply because the party soliciting the information may be a boycotting country or a national or resident thereof. If the information is of a type which is generally sought for a legitimate business purpose (such as determining financial fitness, technical competence, or professional experience), the information may be furnished even if the information could be used, or without the knowledge of the person supplying the information is intended to be used, for boycott purposes. However, no information about business relationships with blacklisted persons or boycotted countries, their residents or nationals, may be furnished in response to a boycott request, even if the information is publicly available. Requests for such information from a

boycott office will be presumed to be boycott-based.

(5) This prohibition, like all others, applies only with respect to a United States person's activities in the interstate or foreign commerce of the United States and only when such activities are undertaken with intent to comply with, further, or support an unsanctioned foreign boycott.

EXAMPLES CONCERNING FURNISHING OF INFORMATION

The following examples are intended to give guidance in determining the circumstances in which the furnishing of information is prohibited. They are illustrative, not comprehensive.

(i) U.S. contractor A is considering bidding for a contract to build a dam in boycotting country Y. The invitation to bid, which appears in a trade journal, specifies that each bidder must state that he does not have any offices in boycotted country X. A knows or has reason to know that the requirement is boycott-based.

A may not make this statement, because it constitutes information about A's business relationships with X.

(ii) U.S. contractor A is considering bidding for a contract to construct a school in boycotting country Y. Each bidder is required to submit copies of its annual report with its bid. Since A's annual report describes A's worldwide operations, including the countries in which it does business, it necessarily discloses whether A has business relations with boycotted country X. A has no reason to know that its report is being sought for boycott purposes.

A, in furnishing its annual report, is supplying ordinary business information in a commercial context.

(iii) Same as (ii), except that accompanying the invitation to bid is a questionnaire from country Y's boycott office asking each bidder to supply a copy of its annual report.

A may not furnish the annual report despite its public availability, because it would be furnishing information in response to a questionnaire from a boycott office.

(iv) U.S. company A is on boycotting country Y's blacklist. For reasons unrelated to the boycott, A terminates its business relationships with boycotted country X. In exploring other marketing areas, A determines that boycotting country Y offers great potential. A is requested to complete a questionnaire from a central boycott office which inquires about A's business relations with X.

A may not furnish the information, because it is information about A's business relationships with a boycotted country.

(v) U.S. exporter A is seeking to sell its products to boycotting country Y. A is informed by Y that, as a condition of sale, A must certify that it has no salesmen in boycotted country X. A knows or has reason to know that the condition is boycott-based.

A may not furnish the certification, because it is information about A's business relationships in a boycotted country.

(vi) U.S. engineering company A receives an invitation to bid on the construction of a dam in boycotting country Y. As a condition of the bid, A is asked to certify that it does not have any offices in boycotted country X. A is also asked to furnish plans for other dams it has designed.

A may not certify that it has no office in X, because this is information about its business relationships in a boycotted country. A may submit plans for other dams it has designed, because this is furnishing normal business information, in a commercial context, relating to A's technical competence and professional experience.

(vii) U.S. company A, in seeking to expand its exports to boycotting country Y, sends a sales representative to Y for a one week trip. During a meeting in Y with trade association representatives, A's representative desires to explain that neither A nor any companies with which A deals has any business relationship with boycotted country X. The purpose of supplying such information is to ensure that A does not get blacklisted.

A's representative may not volunteer this information even though A, for reasons unrelated to the boycott, does not deal with X, because A's representative would be volunteering information about A's business relationships with X for boycott reasons.

(viii) U.S. company A is asked by boycotting country Y to furnish information concerning its business relationships with boycotted country X. A, knowing that Y is seeking the information for boycott purposes, refuses to furnish the information asked for directly, but proposes to respond by supplying a copy of its annual report which lists the countries with which A is presently doing business. A does not happen to be doing business with X.

A may not respond to Y's request by supplying its annual report, because A knows that it would be responding to a boycott-based request for information about its business relationships with X.

(ix) U.S. company A receives a letter from a central boycott office asking A to ''clarify'' A's operations in boycotted country X. A intends to continue its operations in X, but fears that not responding to the request will result in its being placed on boycotting country Y's blacklist. A knows or has reason to know that the information is sought for boycott reasons.

A may not respond to this request, because the information concerns its business relationships with a boycotted country.

(x) U.S. company A, in the course of negotiating a sale of its goods to a buyer in boycotting country Y, is asked to certify that its supplier is not on Y's blacklist.

A may not furnish the information about its supplier's blacklist status, because this is information about A's business relationships with another person who is believed to be restricted from having any business relationship with or in a boycotting country.

(xi) U.S. company A has a manufacturing plant in boycotted country X and is on boycotting country Y's blacklist. A is seeking to establish operations in Y, while expanding its operations in X. A applies to Y to be removed from Y's blacklist. A is asked, in response, to indicate whether it has manufacturing facilities in X.

A may not supply the requested information, because A would be furnishing information about its business relationships in a boycotted country.

(xii) U.S. bank A plans to open a branch office in boycotting country Y. In order to do so, A is required to furnish certain information about its business operations, including the location of its other branch offices. Such information is normally sought in other countries where A has opened a branch office, and A does not have reason to know that Y is seeking the information for boycott reasons.

A may furnish this information, even though in furnishing it A would disclose information about its business relationships in a boycotted country, because it is being furnished in a normal business context and A does not have reason to know that it is sought for boycott reasons.

(xiii) U.S. architectural firm A responds to an invitation to submit designs for an office complex in boycotting country Y. The invitation states that all bidders must include information concerning similar types of buildings they have designed. A has not designed such buildings in boycotted country X. Clients frequently seek information of this type before engaging an architect.

A may furnish this information, because this is furnishing normal business information, in a commercial context, relating to A's technical competence and professional experience.

(xiv) U.S. oil company A distributes to potential customers promotional brochures and catalogs which give background information on A's past projects. A does not have business dealings with boycotted country X. The brochures, which are identical to those which A uses throughout the world, list those countries in which A does or has done business. In soliciting potential customers in boycotting country Y, A desires to distribute copies of its brochures.

A may do so, because this is furnishing normal business information, in a commercial context, relating to professional experience.

(xv) U.S. company A is interested in doing business with boycotting country Y. A wants to ask Y's Ministry of Trade whether, and if so why, A is on Y's blacklist or is otherwise restricted for boycott reasons from doing business with Y.

A may make this limited inquiry, because it does not constitute furnishing information.

(xvi) U.S. company A is asked by boycotting country Y to certify that it is not owned by subjects or nationals of boycotted country X and that it is not resident in boycotted country X.

A may not furnish the certification, because it is information about A's business relationships with or in a boycotted country, or with nationals of a boycotted country.

(xvii) U.S. company A, a manufacturer of certain patented products, desires to register its patents in boycotting country Y. A receives a power of attorney form required to register its patents. The form contains a question regarding A's business relationships with or in boycotted country X. A has no business relationships with X and knows or has reason to know that the information is sought for boycott reasons.

A may not answer the question, because A would be furnishing information about its business relationships with or in a boycotted country.

(xviii) U.S. company A is asked by boycotting country Y to certify that it is not the mother company, sister company, subsidiary, or branch of any blacklisted company, and that it is not in any way affiliated with any blacklisted company.

A may not furnish the certification, because it is information about whether A has a business relationship with another person who is known or believed to be restricted from having any business relationship with or in a boycotting country.

(e) *Information concerning association with charitable and fraternal organizations.*

PROHIBITION AGAINST FURNISHING INFORMATION ABOUT ASSOCIATIONS WITH CHARITABLE AND FRATERNAL ORGANIZATIONS

(1) No United States person may furnish or knowingly agree to furnish information about whether any person is a member of, has made contributions to, or is otherwise associated with or involved in the activities of any charitable or fraternal organization which supports a boycotted country.

(2) This prohibition shall apply whether:

(i) The information concerns association with or involvement in any charitable or fraternal organization which (a) has, as one of its stated purposes, the support of a boycotted country through financial contributions or other means, or (b) undertakes, as a major organizational activity, to offer financial or other support to a boycotted country;

(ii) The information is directly or indirectly requested or is furnished on the initiative of the United States person; or

(iii) The information requested or volunteered concerns membership in, financial contributions to, or any other type of association with or involvement in the activities of such charitable or fraternal organization.

(3) This prohibition does not prohibit the furnishing of normal business information in a commercial context as defined in paragraph (d) of this section.

(4) This prohibition, like all others, applies only with respect to a United States person's activities in the interstate or foreign commerce of the United States and only when such activities are undertaken with intent to comply with, further, or support an unsanctioned foreign boycott.

EXAMPLES OF PROHIBITION AGAINST FURNISHING INFORMATION ABOUT ASSOCIATIONS WITH CHARITABLE OR FRATERNAL ORGANIZATIONS

The following examples are intended to give guidance in determining the circumstances in which the furnishing of information concerning associations with charitable or fraternal organizations is prohibited. They are illustrative, not comprehensive.

(i) U.S. engineering firm A receives an invitation to bid from boycotting country Y. The invitation includes a request to supply information concerning any association which A's officers have with charitable organization B, an organization which is known by A to contribute financial support to boycotted country X. A knows or has reason to know that the information is sought for boycott reasons.

A may not furnish the information.

(ii) U.S. construction company A, in an effort to establish business dealings with boycotting country Y, proposes to furnish information to Y showing that no members of its board of directors are in any way associated with charitable organizations which support boycotted country X. A's purpose is to avoid any possibility of its being blacklisted by Y.

A may not furnish the information, because A's purpose in doing so is boycott-based. It makes no difference that no specific request for the information has been made by Y.

(iii) A, a citizen of the United States, is applying for a teaching position in a school in boycotting country Y. In connection with his application, A furnishes a resume which happens to disclose his affiliation with charitable organizations. A does so completely without reference to Y's boycott and without knowledge of any boycott requirement of Y that pertains to A's application for employment.

The furnishing of a resume by A is not a boycott-related furnishing of information about his association with charitable organizations which support boycotted country X.

(f) *Letters of credit.*

PROHIBITION AGAINST IMPLEMENTING LETTERS OF CREDIT CONTAINING PROHIBITED CONDITIONS OR REQUIREMENTS

(1) No United States person may pay, honor, confirm, or otherwise implement a letter of credit which contains a condition or requirement compliance with which is prohibited by this part, nor shall any United States person, as a result of the application of this section, be obligated to pay, honor or otherwise implement such a letter of credit.

(2) For purposes of this section, ''implementing'' a letter of credit includes:

(i) Issuing or opening a letter of credit at the request of a customer;

(ii) Honoring, by accepting as being a valid instrument of credit, any letter of credit;

(iii) Paying, under a letter of credit, a draft or other demand for payment by the beneficiary;

(iv) Confirming a letter of credit by agreeing to be responsible for payment to the beneficiary in response to a request by the issuer;

(v) Negotiating a letter of credit by voluntarily purchasing a draft from a beneficiary and presenting such draft for reimbursement to the issuer or the confirmer of the letter of credit; and

(vi) Taking any other action to implement a letter of credit.

(3) In the standard international letter of credit transaction facilitating

payment for the export of goods from the United States, a bank in a foreign country may be requested by its customer to issue a revocable or irrevocable letter of credit in favor of the United States exporter. The customer usually requires, and the letter of credit provides, that the issuing (or a confirming) bank will make payment to the beneficiary against the bank's receipt of the documentation specified in the letter of credit. Such documentation usually includes commercial and consular invoices, a bill of lading, and evidence of insurance, but it may also include other required certifications or documentary assurances such as the origin of the goods and information relating to the carrier or insurer of the shipment.

Banks usually will not accept drafts for payment unless the documents submitted therewith comply with the terms and conditions of the letter of credit.

(4) A United States person is not prohibited under this section from advising a beneficiary of the existence of a letter of credit in his favor, or from taking ministerial actions to dispose of a letter of credit which it is prohibited from implementing.

(5) Compliance with this section shall provide an absolute defense in any action brought to compel payment of, honoring of, or other implementation of a letter of credit, or for damages resulting from failure to pay or otherwise honor or implement the letter of credit. This section shall not otherwise relieve any person from any obligations or other liabilities he may incur under other laws or regulations, except as may be explicitly provided in this section.

LETTERS OF CREDIT TO WHICH THIS SECTION APPLIES

(6) This prohibition, like all others, applies only with respect to a United States person's activities taken with intent to comply with, further, or support an unsanctioned foreign boycott. In addition, it applies only when the transaction to which the letter of credit applies is in United States commerce and the beneficiary is a United States person.

IMPLEMENTATION OF LETTERS OF CREDIT IN THE UNITED STATES

(7) A letter of credit implemented in the United States by a United States person located in the United States, including a permanent United States establishment of a foreign bank, will be presumed to apply to a transaction in United States commerce and to be in favor of a United States beneficiary where the letter of credit specifies a United States address for the beneficiary. These presumptions may be rebutted by facts which could reasonably lead the bank to conclude that the beneficiary is not a United States person or that the underlying transaction is not in United States commerce.

(8) Where a letter of credit implemented in the United States by a United States person located in the United States does not specify a United States address for the beneficiary, the beneficiary will be presumed to be other than a United States person. This presumption may be rebutted by facts which could reasonably lead the bank to conclude that the beneficiary is a United States person despite the foreign address.

IMPLEMENTATION OF LETTERS OF CREDIT OUTSIDE THE UNITED STATES

(9) A letter of credit implemented outside the United States by a United States person located outside the United States will be presumed to apply to a transaction in United States commerce and to be in favor of a United States beneficiary where the letter of credit specifies a United States address for the beneficiary and calls for documents indicating shipment from the United States or otherwise indicating that the goods are of United States origin. These presumptions may be rebutted by facts which could reasonably lead the bank to conclude that the beneficiary is not a United States person or that the underlying transaction is not in United States commerce.

(10) Where a letter of credit implemented outside the United States by a United States person located outside the United States does not specify a

United States address for the beneficiary, the beneficiary will be presumed to be other than a United States person. In addition, where such a letter of credit does not call for documents indicating shipment from the United States or otherwise indicating that the goods are of United States origin, the transaction to which it applies will be presumed to be outside United States commerce. The presumption that the beneficiary is other than a United States person may be rebutted by facts which could reasonably lead the bank to conclude that the beneficiary is a United States person. The presumption that the transaction to which the letter of credit applies is outside United States commerce may be rebutted by facts which could reasonably lead the bank to conclude that the underlying transaction is in United States commerce.

EXAMPLES OF THE PROHIBITION AGAINST IMPLEMENTING LETTERS OF CREDIT

The following examples are intended to give guidance in determining the circumstances in which this section applies to the implementation of a letter of credit and in which such implementation is prohibited. They are illustrative, not comprehensive.

IMPLEMENTATION OF LETTERS OF CREDIT IN UNITED STATES COMMERCE

(i) A, a U.S. bank located in the United States, opens a letter of credit in the United States in favor of B, a foreign company located outside the United States. The letter of credit specifies a non-U.S. address for the beneficiary.

The beneficiary is presumed to be other than a U.S. person, because it does not have a U.S. address. The presumption may be rebutted by facts showing that A could reasonably conclude that the beneficiary is a U.S. person despite the foreign address.

(ii) A, a branch of a foreign bank located in the United States, opens a letter of credit in favor of B, a foreign company located outside the United States. The letter of credit specifies a non-U.S. address for the beneficiary.

The beneficiary is presumed to be other than a U.S.person, because it does not have a U.S. address. The presumption may be rebutted by facts showing that A could reasonably conclude that the beneficiary is a U.S. person despite the foreign address.

(iii) A, a U.S. bank branch located outside the United States, opens a letter of credit in favor of B, a person with a U.S. address. The letter of credit calls for documents indicating shipment of goods from the United States.

The letter of credit is presumed to apply to a transaction in U.S. commerce and to be in favor of a U.S. beneficiary because the letter of credit specifies a U.S. address for the beneficiary and calls for documents indicating that the goods will be shipped from the United States. These presumptions may be rebutted by facts showing that A could reasonably conclude that the beneficiary is not a U.S. person or that the underlying transaction is not in U.S. commerce.

(iv) A, a U.S. bank branch located outside the United States, opens a letter of credit which specifies a beneficiary, B, with an address outside the United States and calls for documents indicating that the goods are of U.S.-origin. A knows or has reason to know that although B has an address outside the United States, B is a U.S. person.

The letter of credit is presumed to apply to a transaction in U.S. commerce, because the letter of credit calls for shipment of U.S.-origin goods. In addition, the letter of credit is presumed to be in favor of a beneficiary who is a U.S. person, because A knows or has reason to know that the beneficiary is a U.S. person despite the foreign address.

(v) A, a U.S. bank branch located outside the United States, opens a letter of credit which specifies a beneficiary with a U.S. address. The letter of credit calls for documents indicating shipment of foreign-origin goods.

The letter of credit is presumed to be in favor of a U.S. beneficiary but to apply to a transaction outside U.S. commerce, because it calls for documents indicating shipment of foreign-origin goods. The presumption of non-U.S. commerce may be rebutted by facts showing that A could reasonably conclude that the underlying transaction involves shipment of U.S.-origin goods or goods from the United States.

PROHIBITION AGAINST IMPLEMENTING LETTERS OF CREDIT

(i) Boycotting country Y orders goods from U.S. company B. Y opens a letter of credit with foreign bank C in favor of B. The letter of credit specifies as a condition of payment that B certify that it does not do business with boycotted country X. Foreign bank C forwards the letter of credit it has opened to U.S. bank A for confirmation.

A may not confirm or otherwise implement this letter of credit, because it contains a condition with which a U.S. person may not comply.

(ii) Same as (i), except U.S. bank A desires to advise the beneficiary, U.S. company B, of the letter of credit.

A may do so, because advising the beneficiary of the letter of credit (including the term which prevents A from implementing

it) is not implementation of the letter of credit.

(iii) Same as (i), except foreign bank C sends a telegram to U.S. bank A stating the major terms and conditions of the letter of credit. The telegram does not reflect the boycott provision. Subsequently, C mails to A documents setting forth the terms and conditions of the letter of credit, including the prohibited boycott condition.

A may not further implement the letter of credit after it receives the documents, because they reflect the prohibited boycott condition in the letter of credit. A may advise the beneficiary and C of the existence of the letter of credit (including the boycott term), and may perform any essentially ministerial acts necessary to dispose of the letter of credit.

(iv) Same as (iii), except that U.S. company B, based in part on information received from U.S. bank A, desires to obtain an amendment to the letter of credit which would eliminate or nullify the language in the letter of credit which prevents A from paying or otherwise implementing it.

Either company B or bank A may undertake, and the other may cooperate and assist in, this endeavor. A could then pay or otherwise implement the revised letter of credit, so long as the original prohibited boycott condition is of no force or effect.

(v) Boycotting country Y requests a foreign bank in Y to open a letter of credit to effect payment for goods to be shipped by U.S. supplier B, the beneficiary of the letter of credit. The letter of credit contains prohibited boycott clauses. The foreign bank forwards a copy of the letter of credit to its branch office A, in the United States.

A may advise the beneficiary but may not implement the letter of credit, because it contains prohibited boycott conditions.

(vi) Boycotting country Y orders goods from U.S. company B. U.S. bank A is asked to implement, for the benefit of B, a letter of credit which contains a clause requiring documentation that the goods shipped are not of boycotted country X origin.

A may not implement the letter of credit with a prohibited condition, and may accept only a positive certificate of origin as satisfactory documentation. (See §760.3(c) on ''Import and Shipping Document Requirements.'')

(vii) [Reserved]

(viii) B is a foreign bank located outside the United States. B maintains an account with U.S. bank A, located in the United States. A letter of credit issued by B in favor of a U.S. beneficiary provides that any negotiating bank may obtain reimbursement from A by certifying that all the terms and conditions of the letter of credit have been met and then drawing against B's account. B notifies A by cable of the issuance of a letter of credit and the existence of reimbursement authorization; A does not receive a copy of the letter of credit.

A may reimburse any negotiating bank, even when the underlying letter of credit contains a prohibited boycott condition, because A does not know or have reason to know that the letter of credit contains a prohibited boycott condition.

(ix) Same as (viii), except that foreign bank B forwards a copy of the letter of credit to U.S. bank A, which then becomes aware of the prohibited boycott clause.

A may not thereafter reimburse a negotiating bank or in any way further implement the letter of credit, because it knows of the prohibited boycott condition.

(x) Boycotting country Y orders goods from U.S. exporter B and requests a foreign bank in Y to open a letter of credit in favor of B to cover the cost. The letter of credit contains a prohibited boycott clause. The foreign bank asks U.S. bank A to advise and confirm the letter of credit. Through inadvertence, A does not notice the prohibited clause and confirms the letter of credit. A thereafter notices the clause and then refuses to honor B's draft against the letter of credit. B sues bank A for payment.

A has an absolute defense against the obligation to make payment under this letter of credit. (Note: Examples (ix) and (x) do not alter any other obligations or liabilities of the parties under appropriate law.)

(xi) [Reserved]

(xii) Boycotting country Y orders goods from U.S. company B. A letter of credit which contains a prohibited boycott clause is opened in favor of B by a foreign bank in Y. The foreign bank asks U.S. bank A to advise and confirm the letter of credit, which it forwards to A.

A may advise B that it has received the letter of credit (including the boycott term), but may not confirm the letter of credit with the prohibited clause.

(xiii) Same as (xii), except U.S. bank A fails to tell B that it cannot process the letter of credit. B requests payment.

A may not pay. If the prohibited language is eliminated or nullified as the result of renegotiation, A may then pay or otherwise implement the revised letter of credit.

(xiv) U.S. bank A receives a letter of credit in favor of U.S. beneficiary B. The letter of credit requires B to certify that he is not blacklisted.

A may implement such a letter of credit, but it may not insist that the certification be furnished, because by so insisting it would be refusing to do business with a blacklisted person in compliance with a boycott.

(xv) A, a U.S. bank located in the U.S. opens a letter of credit in favor of U.S. beneficiary B for B's sale of goods to boycotting country Y. The letter of credit contains no

boycott conditions, but A knows that Y customarily requires the seller of goods to certify that it has dealt with no blacklisted supplier. A, therefore, instructs B that it will not make payment under the letter of credit unless B makes such a certification.

A's action in requiring the certification from B constitutes action to require another person to refuse to do business with blacklisted persons.

(xvi) A, a U.S. bank located in the U.S., opens a letter of credit in favor of U.S. beneficiary B for B's sale of goods to boycotting country Y. The letter of credit contains no boycott conditions, but A has actual knowledge that B has agreed to supply a certification to Y that it has not dealt with blacklisted firms, as a condition of receiving the letter of credit in its favor.

A may not implement the letter of credit, because it knows that an implicit condition of the credit is a condition with which B may not legally comply.

(xvii) Boycotting country Y orders goods from U.S. company B. Y opens a letter of credit with foreign bank C in favor of B. The letter of credit includes the statement, ''Do not negotiate with blacklisted banks.'' C forwards the letter of credit it has opened to U.S. bank A for confirmation.

A may not confirm or otherwise implement this letter of credit, because it contains a condition with which a U.S. person may not comply.

[61 FR 12862, Mar. 25, 1996, as amended at 65 FR 34945, June 1, 2000]

§ 760.3 Exceptions to prohibitions.

(a) *Import requirements of a boycotting country.*

COMPLIANCE WITH IMPORT REQUIREMENTS OF A BOYCOTTING COUNTRY

(1) A United States person, in supplying goods or services to a boycotting country, or to a national or resident of a boycotting country, may comply or agree to comply with requirements of such boycotting country which prohibit the import of:

(i) Goods or services from the boycotted country;

(ii) Goods produced or services provided by any business concern organized under the laws of the boycotted country; or

(iii) Goods produced or services provided by nationals or residents of the boycotted country.

(2) A United States person may comply or agree to comply with such import requirements whether or not he has received a specific request to comply. By its terms, this exception applies only to transactions involving imports into a boycotting country. A United States person may not, under this exception, refuse on an across-the-board basis to do business with a boycotted country or a national or resident of a boycotted country.

(3) In taking action within the scope of this exception, a United States person is limited in the types of boycott-related information he can supply. (See § 760.2(d) of this part on ''Furnishing Information About Business Relationships with Boycotted Countries or Blacklisted Persons'' and paragraph (c) of this section on ''Import and Shipping Document Requirements.'')

EXAMPLES OF COMPLIANCE WITH IMPORT REQUIREMENTS OF A BOYCOTTING COUNTRY

The following examples are intended to give guidance in determining the circumstances in which compliance with the import requirements of a boycotting country is permissible. They are illustrative, not comprehensive.

(i) A, a U.S. manufacturer, receives an order from boycotting country Y for its products. Country X is boycotted by country Y, and the import laws of Y prohibit the importation of goods produced or manufactured in X. In filling this type of order, A would usually include some component parts produced in X.

For the purpose of filling this order, A may substitute comparable component parts in place of parts produced in X, because the import laws of Y prohibit the importation of goods manufactured in X.

(ii) Same as (i), except that A's contract with Y expressly provides that in fulfilling the contract A ''may not include parts or components produced or manufactured in boycotted country X.''

A may agree to and comply with this contract provision, because Y prohibits the importation of goods from X. However, A may not furnish negative certifications regarding the origin of components in response to import and shipping document requirements.

(iii) A, a U.S. building contractor, is awarded a contract to construct a plant in boycotting country Y. A accepts bids on goods required under the contract, and the lowest bid is made by B, a business concern organized under the laws of X, a country boycotted by Y. Y prohibits the import of goods produced by companies organized under the laws of X.

For purposes of this contract, A may reject B's bid and accept another, because B's goods

would be refused entry into Y because of Y's boycott against X.

(iv) Same as (iii), except that A also rejects the low bid by B for work on a construction project in country M, a country not boycotted by Y.

This exception does not apply, because A's action is not taken in order to comply with Y's requirements prohibiting the import of products from boycotted country X.

(v) A, a U.S. management consulting firm, contracts to provide services to boycotting country Y. Y requests that A not employ residents or nationals of boycotted country X to provide those services.

A may agree, as a condition of the contract, not to have services furnished by nationals or residents of X, because importation of such services is prohibited by Y.

(vi) A, a U.S. company, is negotiating a contract to supply machine tools to boycotting country Y. Y insists that the contract contain a provision whereby A agrees that none of the machine tools will be produced by any business concern owned by nationals of boycotted country X, even if the business concern is organized under the laws of a non-boycotted country.

A may not agree to this provision, because it is a restriction on the import of goods produced by business concerns owned by nationals of a boycotted country even if the business concerns themselves are organized under the laws of a non-boycotted country.

(b) *Shipment of goods to a boycotting country.*

COMPLIANCE WITH REQUIREMENTS REGARDING THE SHIPMENT OF GOODS TO A BOYCOTTING COUNTRY

(1) A United States person, in shipping goods to a boycotting country, may comply or agree to comply with requirements of that country which prohibit the shipment of goods:

(i) On a carrier of the boycotted country; or

(ii) By a route other than that prescribed by the boycotting country or the recipient of the shipment.

(2) A specific request that a United States person comply or agree to comply with requirements concerning the use of carriers of a boycotted country is not necessary if the United States person knows, or has reason to know, that the use of such carriers for shipping goods to the boycotting country is prohibited by requirements of the boycotting country. This exception applies whether a boycotting country or the purchaser of the shipment:

(i) Explicitly states that the shipment should not pass through a port of the boycotted country; or

(ii) Affirmatively describes a route of shipment that does not include a port in the boycotted country.

(3) For purposes of this exception, the term *carrier of a boycotted country* means a carrier which flies the flag of a boycotted country or which is owned, chartered, leased, or operated by a boycotted country or by nationals or residents of a boycotted country.

EXAMPLES OF COMPLIANCE WITH THE SHIPPING REQUIREMENTS OF A BOYCOTTING COUNTRY

The following examples are intended to give guidance in determining the circumstances in which compliance with import and shipping document requirements of a boycotting country is permissible. They are illustrative, not comprehensive.

(i) A is a U.S. exporter from whom boycotting country Y is importing goods. Y directs that the goods not pass through a port of boycotted country X.

A may comply with Y's shipping instructions, because they pertain to the route of shipment of goods being shipped to Y.

(ii) A, a U.S. fertilizer manufacturer, receives an order from boycotting country Y for fertilizer. Y specifies in the order that A may not ship the fertilizer on a carrier of boycotted country X.

A may comply with this request, because it pertains to the carrier of a boycotted country.

(iii) B, a resident of boycotting country Y, orders textile goods from A, a U.S. distributor, specifying that the shipment must not be made on a carrier owned or leased by nationals of boycotted country X and that the carrier must not pass through a port of country X enroute to Y.

A may comply or agree to comply with these requests, because they pertain to the shipment of goods to Y on a carrier of a boycotted country and the route such shipment will take.

(iv) Boycotting country Y orders goods from A, a U.S. retail merchant. The order specifies that the goods shipped by A ''may not be shipped on a carrier registered in or owned by boycotted country X.''

A may agree to this contract provision, because it pertains to the carrier of a boycotted country.

(v) Boycotting country Y orders goods from A, a U.S. pharmaceutical company, and requests that the shipment not pass through a port of country P, which is not a country boycotted by Y.

This exception does not apply in a non-boycotting situation. A may comply with the shipping instructions of Y, because in

doing so he would not violate any prohibition of this part.

(vi) Boycotting country Y orders goods from A, a U.S. manufacturer. The order specifies that goods shipped by A ''must not be shipped on vessels blacklisted by country Y''.

A may not agree to comply with this condition because it is not a restriction limited to the use of carriers of the boycotted country.

(c) *Import and shipping document requirements.*

COMPLIANCE WITH IMPORT AND SHIPPING DOCUMENT REQUIREMENTS OF A BOYCOTTING COUNTRY

(1) A United States person, in shipping goods to a boycotting country, may comply or agree to comply with import and shipping document requirements of that country, with respect to:

(i) The country or origin of the goods;

(ii) The name and nationality of the carrier;

(iii) The route of the shipment;

(iv) The name, residence, or address of the supplier of the shipment;

(v) The name, residence, or address of the provider of other services.

(2) Such information must be stated in positive, non-blacklisting, non-exclusionary terms except for information with respect to the names or nationalities of carriers or routes of shipment, which may continue to be stated in negative terms in conjunction with shipments to a boycotting country, in order to comply with precautionary requirements protecting against war risks or confiscation.

EXAMPLES OF COMPLIANCE WITH IMPORT AND SHIPPING DOCUMENT REQUIREMENTS

The following examples are intended to give guidance in determining the circumstances in which compliance with the import requirements of a boycotting country is permissible. They are illustrative, not comprehensive.

(i) Boycotting country Y contracts with A, a U.S. petroleum equipment manufacturer, for certain equipment. Y requires that goods being imported into Y must be accompanied by a certification that the goods being supplied did not originate in boycotted country X.

A may not supply such a certification in negative terms but may identify instead the country of origin of the goods in positive terms only.

(ii) Same as (i), except that Y requires that the shipping documentation accompanying the goods specify the country of origin of the goods.

A may furnish the information.

(iii) [Reserved]

(iv) A, a U.S. apparel manufacturer, has contracted to sell certain of its products to B, a national of boycotting country Y. The form that must be submitted to customs officials of Y requires the shipper to certify that the goods contained in the shipment have not been supplied by ''blacklisted'' persons.

A may not furnish the information in negative terms but may certify, in positive terms only, the name of the supplier of the goods.

(v) Same as (iv), except the customs form requires certification that the insurer and freight forwarder used are not ''blacklisted.''

A may not comply with the request but may supply a certification stating, in positive terms only, the names of the insurer and freight forwarder.

(vi) A, a U.S. petrochemical manufacturer, executes a sales contract with B, a resident of boycotting country Y. A provision of A's contract with B requires that the bill of lading and other shipping documents contain certifications that the goods have not been shipped on a ''blacklisted'' carrier.

A may not agree to supply a certification that the carrier is not ''blacklisted'' but may certify the name of the carrier in positive terms only.

(vii) Same as (vi), except that the contract requires certification that the goods will not be shipped on a carrier which flies the flag of, or is owned, chartered, leased, or operated by boycotted country X, or by nationals or residents of X.

Such a certification, which is a reasonable requirement to protect against war risks or confiscation, may be furnished at any time.

(viii) Same as (vi), except that the contract requires that the shipping documents certify the name of the carrier being used.

A may, at any time, supply or agree to supply the requested documentation regarding the name of the carrier, either in negative or positive terms.

(ix) Same as (vi), except that the contract requires a certification that the carrier will not call at a port in boycotted country X before making delivery in Y.

Such a certification, which is a reasonable requirement to protect against war risks or confiscation, may be furnished at any time.

(x) Same as (vi), except that the contract requires that the shipping documents indicate the name of the insurer and freight forwarder.

A may comply at any time, because the statement is not required to be made in negative or blacklisting terms.

(xi) A, a U.S. exporter, is negotiating a contract to sell bicycles to boycotting country Y. Y insists that A agree to certify that the goods will not be shipped on a vessel which has ever called at a port in boycotted country X.

As distinguished from a certification that goods will not be shipped on a vessel which will call enroute at a port of boycotted country X, such a certification is not a reasonable requirement to protect against war risks or confiscation, and, hence, may not be supplied.

(xii) Same as (xi), except that Y insists that A agree to certify that the goods will not be shipped on a carrier that is ineligible to enter Y's waters.

Such a certification, which is not a reasonable requirement to protect against war risks or confiscation may not be supplied.

(d) *Unilateral and specific selection.*

COMPLIANCE WITH UNILATERAL AND SPECIFIC SELECTION

(1) A United States person may comply or agree to comply in the normal course of business with the unilateral and specific selection by a boycotting country, a national of a boycotting country, or a resident of a boycotting country (including a United States person who is a bona fide resident of a boycotting country) of carriers, insurers, suppliers of services to be performed within the boycotting country, or specific goods, provided that with respect to services, it is necessary and customary that a not insignificant part of the services be performed within the boycotting country. With respect to goods, the items, in the normal course of business, must be identifiable as to their source or origin at the time of their entry into the boycotting country by (a) uniqueness of design or appearance or (b) trademark, trade name, or other identification normally on the items themselves, including their packaging.

(2) This exception pertains to what is permissible for a United States person who is the recipient of a unilateral and specific selection of goods or services to be furnished by a third person. It does not pertain to whether the act of making such a selection is permitted; that question is covered, with respect to United States persons, in paragraph (g) of this section on ''Compliance with Local Law.'' Nor does it pertain to the United States person who is the recipient of an order to supply its own goods or services. Nothing in this part prohibits or restricts a United States person from filling an order himself, even if he is selected by the buyer on a boycott basis (e.g., because he is not blacklisted), so long as he does not himself take any action prohibited by this part.

UNILATERAL AND SPECIFIC CHARACTER OF THE SELECTION

(3) In order for this exception to apply, the selection with which a United States person wishes to comply must be unilateral and specific.

(4) A ''specific'' selection is one which is stated in the affirmative and which specifies a particular supplier of goods or services.

(5) A ''unilateral'' selection is one in which the discretion in making the selection is exercised by the boycotting country buyer. If the United States person who receives a unilateral selection has provided the buyer with any boycott-based assistance (including information for purposes of helping the buyer select someone on a boycott basis), then the buyer's selection is not unilateral, and compliance with that selection by a United States person does not come within this exception.

(6) The provision of so-called ''pre-selection'' or ''pre-award'' services, such as providing lists of qualified suppliers, subcontractors, or bidders, does not, in and of itself, destroy the unilateral character of a selection, provided such services are not boycott-based. Lists of qualified suppliers, for example, must not exclude anyone because he is blacklisted. Moreover, such services must be of the type customarily provided in similar transactions by the firm (or industry of which the firm is a part) as measured by the practice in non-boycotting as well as boycotting countries. If such services are not customarily provided in similar transactions or such services are provided in such a way as to exclude blacklisted persons from participating in a transaction or diminish their opportunity for such participation, then the services may not be provided without destroying the unilateral character of any subsequent selection.

SELECTION TO BE MADE BY BOYCOTTING COUNTRY RESIDENT

(7) In order for this exception to be available, the unilateral and specific selection must have been made by a boycotting country, or by a national or resident of a boycotting country. Such a resident may be a United States person. For purposes of this exception, a United States person will be considered a resident of a boycotting country only if he is a bona fide resident. A United States person may be a bona fide resident of a boycotting country even if such person's residency is temporary.

(8) Factors that will be considered in determining whether a United States person is a bona fide resident of a boycotting country include:

(i) Physical presence in the country;

(ii) Whether residence is needed for legitimate business reasons;

(iii) Continuity of the residency;

(iv) Intent to maintain the residency;

(v) Prior residence in the country;

(vi) Size and nature of presence in the country;

(vii) Whether the person is registered to do business or incorporated in the country;

(viii) Whether the person has a valid work visa; and

(ix) Whether the person has a similar presence in both boycotting and non-boycotting foreign countries in connection with similar business activities.

NOTE TO PARAGRAPH (d)(8) OF THIS SECTION: No one of the factors is dispositive. All the circumstances will be examined closely to ascertain whether there is, in fact, a bona fide residency. Residency established solely for purposes of avoidance of the application of this part, unrelated to legitimate business needs, does not constitute bona fide residency.

(9) The boycotting country resident must be the one actually making the selection. If a selection is made by a non-resident agent, parent, subsidiary, affiliate, home office or branch office of a boycotting country resident, it is not a selection by a resident within the meaning of this exception.

(10) A selection made solely by a bona fide resident and merely transmitted by another person to a United States person for execution is a selection by a bona fide resident within the meaning of this exception.

DUTY OF INQUIRY

(11) If a United States person receives, from another person located in the United States, what may be a unilateral selection by a boycotting country customer, and knows or has reason to know that the selection is made for boycott reasons, he has a duty to inquire of the transmitting person to determine who actually made the selection. If he knows or has reason to know that the selection was made by other than a boycotting country, or a national or resident of a boycotting country, he may not comply. A course or pattern of conduct which a United States person recognizes or should recognize as consistent with boycott restrictions will create a duty to inquire.

(12) If the United States person does not know or have reason to know that the selection it receives is boycott-based, its compliance with such a selection does not offend any prohibition and this exception is not needed.

SELECTION OF SERVICES

(13) This exception applies only to compliance with selections of certain types of suppliers of services-carriers, insurers, and suppliers of services to be performed ''within the boycotting country.'' Services to be performed wholly within the United States or wholly within any country other than the boycotting country are not covered.

(14) For purposes of this part, services are to be performed ''within the boycotting country'' only if they are of a type which would customarily be performed by suppliers of those services within the country of the recipient of those services, and if the part of the services performed within the boycotting country is a necessary and not insignificant part of the total services performed.

(15) What is ''customary and necessary'' for these purposes depends on the usual practice of the supplier of the services (or the industry of which he is a part) as measured by the practice in non-boycotting as well as boycotting countries, except where such practices are instituted to accommodate this part.

SELECTION OF GOODS

(16) This exception applies only to compliance with selections of certain types of goods—goods that, in the normal course of business, are identifiable as to their source or origin at the time of their entry into the boycotting country. The definition of ''specifically identifiable goods'' is the same under this section as it is in paragraph (g) of this section on ''Compliance with Local Law.''

(17) Goods ''specifically identifiable'' in the normal course of business are those items which at the time of their entry into a boycotting country are identifiable as to source or origin by uniqueness of design or appearance; or trademark, trade name, or other identification normally on the items themselves, including their packaging. Goods are ''specifically identifiable'' in the normal course of business if their source or origin is ascertainable by inspection of the items themselves, including their packaging, regardless of whether inspection takes place. Goods are not considered to be ''specifically identifiable'' in the normal course of business if a trademark, trade name, or other form of identification not normally present is added to the items themselves, including their packaging, to accommodate this part.

GENERAL

(18) If a unilateral selection meets the conditions described in paragraph (d) of this section, the United States person receiving the unilateral selection may comply or agree to comply, even if he knows or has reason to know that the selection was boycott-based. However, no United States person may comply or agree to comply with any unilateral selection if he knows or has reason to know that the purpose of the selection is to effect discrimination against any United States person on the basis of race, religion, sex, or national origin.

EXAMPLES OF COMPLIANCE WITH A UNILATERAL SELECTION

The following examples are intended to give guidance in determining what constitutes a unilateral selection and the circumstances in which compliance with such a selection is permissible. They are illustrative, not comprehensive.

SPECIFIC AND UNILATERAL SELECTION

(i) A, a U.S. manufacturer of road-grading equipment, is asked by boycotting country Y to ship goods to Y on U.S. vessel B, a carrier which is not blacklisted by Y. A knows or has reason to know that Y's selection of B is boycott-based.

A may comply with Y's request, or may agree to comply as a condition of the contract, because the selection is specific and unilateral.

(ii) A, a U.S. contractor building an industrial facility in boycotting country Y is asked by B, a resident of Y, to use C as the supplier of air conditioning equipment to be used in the facility. C is not blacklisted by country Y. A knows or has reason to know that B's request is boycott-based.

A may comply with B's request, or may agree to comply as a condition of the contract, because the selection of C is specific and unilateral.

(iii) A, a U.S. manufacturer of automotive equipment, is asked by boycotting country Y not to ship its goods to Y on U.S. carriers, B, C, or D. Carriers B, C, and D are blacklisted by boycotting country Y. A knows or has reason to know that Y's request is boycott-based.

A may not comply or agree to comply with Y's request, because no specific selection of any particular carrier has been made.

(iv) A, a U.S. exporter shipping goods ordered by boycotting country Y, is provided by Y with a list of eligible U.S. insurers from which A may choose in insuring the shipment of its goods. A knows or has reason to know that the list was compiled on a boycott basis.

A may not comply or agree to comply with Y's request that A choose from among the eligible insurers, because no specific selection of any particular insurer has been made.

(v) A, a U.S. aircraft manufacturer, is negotiating to sell aircraft to boycotting country Y. During the negotiations, Y asks A to identify the company which normally manufactures the engines for the aircraft. A responds that they are normally manufactured by U.S. engine manufacturer B. B is blacklisted by Y. In making the purchase, Y specifies that the engines for the aircraft should be supplied by U.S. engine manufacturer C.

A may comply or agree to comply with Y's selection of C, because Y's selection is unilateral and specific.

(vi) A, a U.S. construction firm, is retained by an agency of boycotting country Y to build a pipeline. Y requests A to suggest qualified engineering firms to be used on-site in the construction of the pipeline. It is customary for A, regardless of where it conducts

its operations, to identify qualified engineering firms to its customers so that its customers may make their own selection of the firm to be engaged. Choice of engineering firm is customarily a prerogative of the customer. A provides a list of five engineering firms, B-F, excluding no firm because it may be blacklisted, and then confers with and gives its recommendations to Y. A recommends C, because C is the best qualified. Y then selects B, because C is blacklisted.

A may comply with Y's selection of B, because the boycott-based decision is made by Y and is unilateral and specific. Since A's pre-award services are of the kind customarily provided in these situations, and since they are provided without reference to the boycott, they do not destroy the unilateral character of Y's selection.

(vii) A, a U.S. aircraft manufacturer, has an order to supply a certain number of planes to boycotting country Y. In connection with the order, Y asks A to supply it with a list of qualified aircraft tire manufacturers so that Y can select the tires to be placed on the planes. This is a highly unusual request, since, in A's worldwide business operations, choice of tires is customarily made by the manufacturer, not the customer. Nonetheless, A supplies a list of tire manufacturers, B, C, D, and E. Y chooses tire manufacturer B because B is not blacklisted. Had A, as is customary, selected the tires, company C would have been chosen. C happens to be blacklisted, and A knows that C's blacklist status was the reason for Y's selection of B.

A's provision of a list of tire manufacturers for Y to choose from destroys the unilateral character of Y's selection, because such a pre-selection service is not customary in A's worldwide business operations.

(viii) A, a U.S. aircraft manufacturer, receives an order from U.S. company C, which is located in the United States, for the sale of aircraft to company D, a U.S. affiliate of C. D is a bona fide resident of boycotting country Y. C instructs A that ''in order to avoid boycott problems,'' A must use engines that are manufactured by company B, a company that is not blacklisted by Y. Engines built by B are unique in design and also bear B's trade name.

Since A has reason to know that the selection is boycott-based, he must inquire of C whether the selection was in fact made by D. If C informs A that the selection was made by D, A may comply.

(ix) Same as (viii), except that C initially states that the designation was unilaterally and specifically made by D.

A may accept C's statement without further investigation and may comply with the selection, because C merely transmitted D's unilateral and specific selection.

(x) Same as (ix), except that C informs A that it, C, has selected B on behalf of or as an agent of its affiliated company resident in the boycotting country.

A may not comply with this selection, because the decision was not made by a resident of the boycotting country.

(xi) A, a U.S. management consulting firm, is advising boycotting country Y on the selection of a contracting firm to construct a plant for the manufacture of agricultural chemicals. As is customary in its business, A compiles a list of potential contractors on the basis of its evaluation of the capabilities of the respective candidates to perform the job. A has knowledge that company B is blacklisted, but provides Y with the names of companies B, C, D, and E, listing them in order of their qualifications. Y instructs A to negotiate with C.

A may comply with Y's instruction, because Y's selection is unilateral and specific.

(xii) A, a U.S. exporter, is asked by boycotting country Y not to ship goods on carriers B, C, or D, which are owned by nationals of and are registered in country P, a country not boycotted by Y.

A may comply or agree to comply with Y's request even though the selection is not specific, because A does not know or have reason to know that the request is boycott-based.

(NOTE: In example (xii), A has violated no prohibition, because it does not know or have reason to know that Y's instruction is boycott-based. Therefore, A could not act with the requisite intent to comply with the boycott.)

(xiii) A, a U.S. construction company, receives a contract to construct a hotel in boycotting country Y. As part of the contract, A is required to furnish Y with lists of qualified suppliers of various specifically identifiable items. A compiles lists of various qualified suppliers wholly without reference to the boycott, and thereafter Y instructs A to negotiate with, enter into contracts with, and arrange for delivery from each of the suppliers which Y designates. A knows that Y's choices are made on a boycott basis.

A may comply with Y's selections and carry out these post-award services for Y, because Y's selections were unilateral and specific and A's pre-award services were provided without reference to Y's boycott.

EXAMPLES OF BOYCOTTING COUNTRY BUYER

(The factors in determining whether a United States person is a ''bona fide resident'' of a boycotting country are the same as in paragraph (g) of this section on ''Compliance with Local Law.'' See also the examples in that section.)

(i) A, a U.S. exporter, is asked by B, a U.S. person who is a bona fide resident of boycotting country Y, to ship goods on U.S. carrier C. C is not blacklisted by Y, and A

knows that B has chosen on a boycott basis in order to comply with Y's boycott laws.

A may comply or agree to comply with B's request, because B is a bona fide resident of Y.

(ii) A is a U.S. computer company whose subsidiary, B, is a bona fide resident of boycotting country Y. A receives an order from B for specific, identifiable products manufactured by company C in connection with a computer which B is installing in Y.

A may comply or agree to comply with B's unilateral and specific selection, so long as the discretion was in fact exercised by B, not A.

(NOTE: Unilateral selection transactions involving related United States persons will be scrutinized carefully to ensure that the selection was in fact made by the bona fide resident of the boycotting country.)

(iii) A, a U.S. engineering firm, has chief engineer B as its resident engineer on a dam construction site in boycotting country Y. B's presence at the site is necessary in order to ensure proper supervision of the project. In order to comply with local law, B selects equipment supplier C rather than D, who is blacklisted, and directs A to purchase certain specific equipment from C for use in the project.

A may comply with this unilateral selection, because the decision was made by a bona fide resident of Y.

(As noted above, unilateral selections involving related United States persons will be scrutinized carefully to ensure that the selection was in fact made by the bona fide resident of the boycotting country.)

(iv) B, a branch of U.S. bank A, is located in boycotting country Y. B is in need of office supplies and asks the home office in New York to make the necessary purchases. A contacts C, a U.S. company in the office supply business, and instructs C to purchase various items from certain specific companies and ship them directly to B. In order to avoid any difficulties for B with respect to Y's boycott laws, A is careful to specify only non-blacklisted companies or suppliers. C knows that that was A's purpose. C may not comply with A's instruction, because the selection of suppliers was not made by a resident of a boycotting country.

(v) Same as (iv), except that A has given standing instructions to B that whenever it needs office supplies, it should specify certain suppliers designated by A. To avoid running afoul of Y's boycott laws, A's designations consist exclusively of non-blacklisted firms. A receives an order from B with the suppliers designated in accordance with A's instructions.

A may not comply with B's selection, because the selection was not in fact made by a bona fide resident of the boycotting country, but by a person located in the United States.

EXAMPLES OF SUPPLIERS OF SERVICES

(i) A, a U.S. manufacturer, is asked by boycotting country Y to ship goods to Y on U.S. vessel B, a carrier which is not blacklisted by Y.

A may comply or agree to comply with Y's request, because compliance with the unilateral and specific selection of carriers is expressly permitted under this exception.

(ii) A, a U.S. exporter shipping goods ordered by C, a national of boycotting country Y, is asked by C to insure the shipment through U.S. insurer B.

A may comply or agree to comply with C's request, because compliance with the unilateral and specific selection of an insurer is expressly permitted under this exception.

(iii) A, a U.S. construction company, is hired by C, an agency of the government of boycotting country Y, to build a power plant in Y. C specifies that A should subcontract the foundation work to U.S. contractor B. Part of the foundation design work will be done by B in the United States.

A may comply or agree to comply with Y's designation, because a necessary and not insignificant part of B's services are to be performed within the boycotting country, and such services are customarily performed on-site.

(iv) A, a U.S. contractor, is engaged by boycotting country Y to build a power plant. Y specifies that U.S. architectural firm B should be retained by A to design the plant. In order to design the plant, it is essential that B's personnel visit and become familiar with the site, although the bulk of the design and drawing work will be done in the United States.

A may comply or agree to comply with Y's unilateral and specific selection of architectural firm B, because a necessary and not insignificant part of B's services are to be performed within Y, and such on-site work is customarily involved in the provision of architectural services. The fact that the bulk of the actual work may be performed in the United States is irrelevant since the part to be performed within Y is necessary to B's effective performance.

(v) Same as (iv), except that Y specifies that the turbine for the power plant should be designed by U.S. engineer C. It is neither customary nor necessary for C to visit the site in order to do any of his work, but C has informed A that he would probably want to visit the site in Y if he were selected for the job.

A may not comply or agree to comply with Y's request, because, in the normal course of business, it is neither customary nor necessary for engineer C's services to be performed in Y.

(vi) A, a U.S. aircraft manufacturer, receives a contract from boycotting country Y to manufacture jet engines for Y's use. Y specifies that the engines should be designed by U.S. industrial engineering firm B.

A may not comply or agree to comply with Y's request, because, in the normal course of business, the services will not be performed in Y.

(vii) U.S. company A has a contract to supply specially designed road graders to boycotting country Y. Y has instructed A that it should engage engineering firm B in the design work rather than engineering firm C, which A normally uses, because C is blacklisted. When A contacts B, B informs A that one of B's personnel customarily visits the location in which any equipment B designs is used after it is in use, in order to determine how good a design job B has done. Such visits are necessary from B's point of view to provide a check on the quality of its work, and they are necessary from Y's point of view because they make it possible for Y to discuss possible design changes should deficiencies be detected.

A may not comply with Y's selection of B, because the services which B would perform in Y are an insignificant part of the total services to be performed by B.

EXAMPLES OF SPECIFICALLY IDENTIFIABLE GOODS

(The test of what constitutes ''specifically identifiable goods'' under this exception also applies to the term ''specifically identifiable goods'' as used in paragraph (g) of this section on ''Compliance with Local Law.'')

(i) A, a U.S. contractor, is constructing an apartment complex, on a turnkey basis, for boycotting country Y. Y instructs A to use only kitchen appliances manufactured by U.S. company B in completing the project. The appliances normally bear the manufacturer's name and trademark.

A may comply with Y's selection of B, because Y's unilateral and specific selection is of goods identifiable as to source or origin in the normal course of business at the time of their entry into Y.

(ii) Same as (i), except that Y directs A to use lumber manufactured only by U.S. company C. In the normal course of business, C neither stamps its name on the lumber nor identifies itself as the manufacturer on the packaging. In addition, normal export packaging does not identify the manufacturer.

A may not comply with Y's selection, because the goods selected are not identifiable by source or origin in the normal course of business at the time of their entry into Y.

(iii) B, a U.S. contractor who is a bona fide resident of boycotting country Y, is engaged in building roads. B retains the services of A, a U.S. engineering firm, to assist it in procuring construction equipment. B directs A to purchase road graders only from manufacturer C because other road grader manufacturers which A might use are blacklisted. C's road graders normally bear C's insignia.

A may comply with B's selection of C, because the goods selected are identifiable by source or origin in the normal course of business at the time of their entry into Y.

(iv) A, a U.S. company, manufactures computer-operated machine tools. The computers are mounted on a separate bracket on the side of the equipment and are readily identifiable by brand name imprinted on the equipment. There are five or six U.S. manufacturers of such computers which will function interchangeably to operate the machine tools manufactured by A. B, a resident of boycotting country Y, contracts to buy the machine tools manufactured by A on the condition that A incorporate, as the computer drive, a computer manufactured by U.S. company C. B's designation of C is made to avoid boycott problems which could be caused if computers manufactured by some other company were used.

A may comply with B's designation of C, because the goods selected are identifiable by source or origin in the normal course of business at the time of their entry into Y.

(v) A, a U.S. wholesaler of electronic equipment, receives an order from B, a U.S. manufacturer of radio equipment, who is a bona fide resident of boycotting country Y. B orders a variety of electrical components and specifies that all transistors must be purchased from company C, which is not blacklisted by Y. The transistors requested by B do not normally bear the name of the manufacturer; however, they are typically shipped in cartons, and C's name and logo appear on the cartons.

A may comply with B's selection, because the goods selected by B are identifiable as to source or origin in the normal course of business at the time of their entry into Y by virtue of the containers or packaging used.

(vi) A, a U.S. computer manufacturer, receives an order for a computer from B, a university in boycotting country Y. B specifies that certain integrated circuits incorporated in the computer must be supplied by U.S. electronics company C. These circuits are incorporated into the computer and are not visible without disassembling the computer.

A may not comply or agree to comply with B's specific selection of these components, because they are not identifiable as to their source or origin in the normal course of business at the time of their entry into Y.

(vii) A, a U.S. clothing manufacturer, receives an order for shirts from B, a retailer resident in boycotting country Y. B specifies that the shirts are to be manufactured from cotton produced by U.S. farming cooperative C. Such shirts will not identify C or the source of the cotton.

A may not comply or agree to comply with B's designation, because the cotton is not identifiable as to source or origin in the normal course of business at the time of entry into Y.

(viii) A, a U.S. contractor, is retained by B, a construction firm located in and wholly-owned by boycotting country Y, to assist B in procuring construction materials. B directs A to purchase a range of materials, including hardware, tools, and trucks, all of which bear the name of the manufacturer stamped on the item. In addition, B directs A to purchase steel beams manufactured by U.S. company C. The name of manufacturer C normally does not appear on the steel itself or on its export packaging.

A may comply with B's selection of the hardware, tools, and trucks, because they are identifiable as to source or origin in the normal course of business at the time of entry into Y. A may not comply with B's selection of steel beams, because the goods are not identifiable as to source or origin by trade name, trademark, uniqueness or packaging at the time of their entry into Y.

EXAMPLE OF DISCRIMINATION ON BASIS OF RACE, RELIGION, SEX, OR NATIONAL ORIGIN

(i) A, a U.S. paper manufacturer, is asked by boycotting country Y to ship goods to Y on U.S. vessel B. Y states that the reason for its choice of B is that, unlike U.S. vessel C, B is not owned by persons of a particular faith.

A may not comply or agree to comply with Y's request, because A has reason to know that the purpose of the selection is to effect religious discrimination against a United States person.

(e) *Shipment and transshipment of exports pursuant to a boycotting country's requirements.*

COMPLIANCE WITH A BOYCOTTING COUNTRY'S REQUIREMENTS REGARDING SHIPMENT AND TRANSSHIPMENT OF EXPORTS

(1) A United States person may comply or agree to comply with the export requirements of a boycotting country with respect to shipments or transshipments of exports to:

(i) A boycotted country;

(ii) Any business concern of a boycotted country;

(iii) Any business concern organized under the laws of a boycotted country; or

(iv) Any national or resident of a boycotted country.

(2) This exception permits compliance with restrictions which a boycotting country may place on direct exports to a boycotted country; on indirect exports to a boycotted country (i.e., those that pass via third parties); and on exports to residents, nationals, or business concerns of, or organized under the laws of, a boycotted country, including those located in third countries.

(3) This exception also permits compliance with restrictions which a boycotting country may place on the route of export shipments when the restrictions are reasonably related to preventing the export shipments from coming into contact with or under the jurisdiction of the boycotted country. This exception applies whether a boycotting country or the vendor of the shipment:

(i) Explicitly states that the shipment should not pass through the boycotted country enroute to its final destination; or

(ii) Affirmatively describes a route of shipment that does not include the boycotted country.

(4) A United States person may not, under this exception, refuse on an across-the-board basis to do business with a boycotted country or a national or resident of a boycotted country.

EXAMPLES OF COMPLIANCE WITH A BOYCOTTING COUNTRY'S REQUIREMENTS REGARDING SHIPMENT OR TRANSSHIPMENT OF EXPORTS

The following examples are intended to give guidance in determining the circumstances in which compliance with the export requirements of a boycotting country is permissible. They are illustrative, not comprehensive.

(i) A, a U.S. petroleum company, exports petroleum products to 20 countries, including the United States, from boycotting country Y. Country Y's export regulations require that products not be exported from Y to boycotted country X.

A may agree to and comply with Y's regulations with respect to the export of goods from Y to X.

(ii) Same as (i), except that Y's export regulations require that goods not be exported from boycotting country Y to any business concern organized under the laws of boycotted country X.

A may agree to and comply with Y's regulations with respect to the export of goods from Y to a business concern organized under the laws of X, even if such concern is located in a country not involved in Y's boycott of X.

(iii) B, the operator of a storage facility in country M, contracts with A, a U.S. carrier, for the shipment of certain goods manufactured in boycotting country Y. A's contract with B contains a provision stating that the goods to be transported may not be shipped or transshipped to boycotted country X. B informs A that this provision is a requirement of C, the manufacturer of goods who is a resident of boycotting country Y. Country M is not boycotted by Y.

A may agree to and comply with this provision, because such a provision is required by the export regulations of boycotting country Y in order to prevent shipment of Y-origin goods to a country boycotted by Y.

(iv) A, a U.S. petroleum refiner located in the United States, purchases crude oil from boycotting country Y. A has a branch operation in boycotted country X. Y requires, as a condition of sale, that A agree not to ship or transship the crude oil or products refined in Y to A's branch in X.

A may agree to and comply with these requirements, because they are export requirements of Y designed to prevent Y-origin products from being shipped to a boycotted country.

(v) A, a U.S. company, has a petrochemical plant in boycotting country Y. As a condition of securing an export license from Y, A must agree that it will not ship or permit transshipment of any of its output from the plant in Y to any companies which Y lists as being owned by nationals of boycotted country X.

A may agree to this condition, because it is a restriction designed to prevent Y-origin products from being exported to a business concern of boycotted country X or to nationals of boycotted country X.

(vi) Same as (v), except that the condition imposed on A is that Y-origin goods may not be shipped or permitted to be transshipped to any companies which Y lists as being owned by persons whose national origin is X.

A may not agree to this condition, because it is a restriction designed to prevent Y-origin goods from being exported to persons of a particular national origin rather than to residents or nationals of a particular boycotted country.

(vii) A, a U.S. petroleum company, exports petroleum products to 20 countries, including the United States, from boycotting country Y. Y requires, as a condition of sale, that A not ship the products to be exported from Y to or through boycotted country X.

A may agree to and comply with this requirement because it is an export requirement of Y designed to prevent Y-origin products from coming into contact with or under the jurisdiction of a boycotted country.

(viii) Same as (vii), except that boycotting country Y's export regulations require that products to be exported from Y not pass through a port of boycotted country X.

A may agree to and comply with Y's regulations prohibiting Y-origin exports from passing through a port at boycotted country X, because they are export requirements of Y designed to prevent Y-origin products from coming into contact with or under the jurisdiction of a boycotted country.

(ix) Same as (vii), except that Y's export regulations require that A not transship the exported products ''in or at'' boycotted country X.

A may agree to and comply with Y's regulations with respect to the transshipment of goods ''in or at'' X, because they are export requirements of Y designed to prevent Y-origin products from coming into contact with or under the jurisdiction of a boycotted country.

(f) *Immigration, passport, visa, or employment requirements of a boycotting country.*

COMPLIANCE WITH IMMIGRATION, PASSPORT, VISA, OR EMPLOYMENT REQUIREMENTS OF A BOYCOTTING COUNTRY

(1) A United States individual may comply or agree to comply with the immigration, passport, visa, or employment requirements of a boycotting country, and with requests for information from a boycotting country made to ascertain whether such individual meets requirements for employment within the boycotting country, provided that he furnishes information only about himself or a member of his family, and not about any other United States individual, including his employees, employers, or co-workers.

(2) For purposes of this section, a *United States individual* means a person who is a resident or national of the United States. *Family* means immediate family members, including parents, siblings, spouse, children, and other dependents living in the individual's home.

(3) A United States person may not furnish information about its employees or executives, but may allow any individual to respond on his own to any request for information relating to immigration, passport, visa, or employment requirements. A United States person may also perform any ministerial acts to expedite processing of applications by individuals. These include informing employees of boycotting country visa requirements at

an appropriate time; typing, translation, messenger and similar services; and assisting in or arranging for the expeditious processing of applications. All such actions must be undertaken on a non-discriminatory basis.

(4) A United States person may proceed with a project in a boycotting country even if certain of its employees or other prospective participants in a transaction are denied entry for boycott reasons. But no employees or other participants may be selected in advance in a manner designed to comply with a boycott.

EXAMPLES OF COMPLIANCE WITH IMMIGRATION, PASSPORT, VISA, OR EMPLOYMENT REQUIREMENTS OF A BOYCOTTING COUNTRY

The following examples are intended to give guidance in determining the circumstances in which compliance with immigration, passport, visa, or employment requirements is permissible. They are illustrative, not comprehensive.

(i) A, a U.S. individual employed by B, a U.S. manufacturer of sporting goods with a plant in boycotting country Y, wishes to obtain a work visa so that he may be assigned to the plant in Y. Country Y's immigration laws specify that anyone wishing to enter the country or obtain a visa to work in the country must supply information about his religion. This information is required for boycott purposes.

A may furnish such information, because it is required by Y's immigration laws.

(ii) Same as (i), except that A is asked to supply such information about other employees of B.

A may not supply this information, because it is not information about himself or his family.

(iii) A, a U.S. building contractor, has been awarded a construction contract to be performed in boycotting country Y. Y's immigration laws require that individuals applying for visas must indicate race, religion, and place of birth. The information is sought for boycott purposes. To avoid repeated rejections of applications for work visas by A's employees, A desires to furnish to country Y a list of its prospective and current employees and required information about each so that Y can make an initial screening.

A may not furnish such a list, because A would be furnishing information about the race, religion, and national origin of its employees.

(iv) Same as (iii), except that A selects for work on the project those of its current employees whom it believes will be granted work visas from boycotting country Y.

A may not make a selection from among its employees in a manner designed to comply with the boycott-based visa requirements of Y, but must allow all eligible employees to apply for visas. A may later substitute an employee who obtains the necessary visa for one who has had his application rejected.

(v) Same as (iii), except that A selects employees for the project and then allows each employee individually to apply for his own visa. Two employees' applications are rejected, and A then substitutes two other employees who, in turn, submit their own visa applications.

A may take such action, because in so doing A is not acting in contravention of any prohibition of this part.

(vi) Same as (v), except that A arranges for the translation, typing and processing of its employees' applications, and transmits all the applications to the consulate of boycotting country Y.

A may take such ministerial actions, because in so doing A is not itself furnishing information with respect to race, religion, sex, or national origin, but is merely transmitting information furnished by its individual employees.

(vii) A, a U.S. contractor, selects U.S. subcontractor B to perform certain engineering services in connection with A's project in boycotting country Y. The work visa application submitted by the employee whom B has proposed as chief engineer of this project is rejected by Y because his national origin is of boycotted country X. Subcontractor B thereupon withdraws.

A may continue with the project and select another subcontractor, because A is not acting in contravention of any prohibition of this part.

(g) *Compliance with local law.* (1) This exception contains two parts. The first covers compliance with local law with respect to a United States person's activities exclusively within a foreign country; the second covers compliance with local import laws by United States persons resident in a foreign country. Under both parts of this exception, local laws are laws of the host country, whether derived from statutes, regulations, decrees, or other official sources having the effect of law in the host country. This exception is not available for compliance with presumed policies or understandings of policies unless those policies are reflected in official sources having the effect of law.

(2) Both parts of this exception apply only to United States persons resident in a foreign country. For purposes of this exception, a United States person will be considered to be a resident of a

foreign country only if he is a bona fide resident. A United States person may be a bona fide resident of a foreign country even if such person's residency is temporary.

(3)(i) Factors that will be considered in determining whether a United States person is a bona fide resident of a foreign country include:

(A) Physical presence in the country;

(B) Whether residence is needed for legitimate business reasons;

(C) Continuity of the residency;

(D) Intent to maintain the residency;

(E) Prior residence in the country;

(F) Size and nature of presence in the country;

(G) Whether the person is registered to do business or incorporated in the country;

(H) Whether the person has a valid work visa; and

(I) Whether the person has a similar presence in both boycotting and non-boycotting foreign countries in connection with similar business activities.

(ii) No one of the factors in paragraph (g)(3) of this section is dispositive. All the circumstances involved will be closely examined to ascertain whether there is, in fact, bona fide residency. Residency established solely for purposes of avoidance of the application of this part, unrelated to legitimate business needs, does not constitute bona fide residency.

EXAMPLES OF BONA FIDE RESIDENCY

The following examples are intended to give guidance in determining the circumstances in which a United States person may be a bona fide resident of a foreign country. For purposes of illustration, each example discusses only one or two factors, instead of all relevant factors. They are illustrative, not comprehensive.

(i) A, a U.S. radio manufacturer located in the United States, receives a tender to bid on a contract to supply radios for a hotel to be built in boycotting country Y. After examining the proposal, A sends a bid from its New York office to Y.

A is not a resident of Y, because it is not physically present in Y.

(ii) Same as (i), except that after receiving the tender, A sends its sales representative to Y. A does not usually have sales representatives in countries when it bids from the United States, and this particular person's presence in Y is not necessary to enable A to make the bid.

A is not a bona fide resident of Y, because it has no legitimate business reasons for having its sales representative resident in Y.

(iii) A, a U.S. bank, wishes to establish a branch office in boycotting country Y. In pursuit of that objective, A's personnel visit Y to make the necessary arrangements. A intends to establish a permanent branch office in Y after the necessary arrangements are made.

A's personnel in Y are not bona fide residents of Y, because A does not yet have a permanent business operation in Y.

(iv) Same as (iii), except A's personnel are required by Y's laws to furnish certain non-discriminatory boycott information in order to establish a branch in Y.

In these limited circumstances, A's personnel may furnish the non-discriminatory boycott information necessary to establish residency to the same extent a U.S. person who is a bona fide resident in that country could. If this information could not be furnished in such limited circumstances, the exception would be available only to firms resident in a boycotting country before January 18, 1978.

(v) A, a U.S. construction company, receives an invitation to build a power plant in boycotting country Y. After receipt of the invitation, A's personnel visit Y in order to survey the site and make necessary analyses in preparation for submitting a bid. The invitation requires that otherwise prohibited boycott information be furnished with the bid.

A's personnel in Y are not bona fide residents of Y, because A has no permanent business operation in Y. Therefore, A's personnel may not furnish the prohibited information.

(vi) Same as (v), except that A is considering establishing an office in boycotting country Y. A's personnel visit Y in order to register A to do business in that country. A intends to establish ongoing construction operations in Y. A's personnel are required by Y's laws to furnish certain non-discriminatory boycott information in order to register A to do business or incorporate a subsidiary in Y.

In these limited circumstances, A's personnel may furnish non-discriminatory boycott information necessary to establish residency to the same extent a U.S. person who is a bona fide resident in that country could. If this information could not be furnished in such limited circumstances, the exception would be available only to firms resident in a boycotting country before January 18, 1978.

(vii) A, a subsidiary of U.S. oil company B, is located in boycotting country Y. A has been engaged in oil explorations in Y for a number of years.

A is a bona fide resident of Y, because of its pre-existing continuous presence in Y for legitimate business reasons.

(viii) Same as (vii), except that A has just been established in Y and has not yet begun operations.

A is a bona fide resident of Y, because it is present in Y for legitimate business reasons and it intends to reside continuously.

(ix) U.S. company A is a manufacturer of prefabricated homes. A builds a plant in boycotting country Y for purposes of assembling components made by A in the United States and shipped to Y.

A's personnel in Y are bona fide residents of Y, because A's plant in Y is established for legitimate business reasons, and it intends to reside continuously.

(x) U.S. company A has its principal place of business in the United States. A's sales agent visits boycotting country Y from time to time for purposes of soliciting orders.

A's sales agent is not a bona fide resident of Y, because such periodic visits to Y are insufficient to establish a bona fide residency.

(xi) A, a branch office of U.S. construction company B, is located in boycotting country Y. The branch office has been in existence for a number of years and has been performing various management services in connection with B's construction operations in Y.

A is a bona fide resident of Y, because of its longstanding presence in Y and its conduct of ongoing operations in Y.

(xii) U.S. construction company A has never done any business in boycotting country Y. It is awarded a contract to construct a hospital in Y, and preparatory to beginning construction, sends its personnel to Y to set up operations.

A's personnel are bona fide residents of Y, because they are present in Y for the purposes of carrying out A's legitimate business purposes; they intend to reside continuously; and residency is necessary to conduct their business.

(xiii) U.S. company A manufactures furniture. All its sales in foreign countries are conducted from its offices in the United States. From time to time A has considered opening sales offices abroad, but it has concluded that it is more efficient to conduct sales operations from the United States. Shortly after the effective date of this part, A sends a sales representative to boycotting country Y to open an office in and solicit orders from Y. It is more costly to conduct operations from that office than to sell directly from the United States, but A believes that if it establishes a residence in Y, it will be in a better position to avoid conflicts with U.S. law in its sales to Y.

A's sales representative is not a bona fide resident of Y, because the residency was established to avoid the application of this part and not for legitimate business reasons.

(xiv) Same as (xiii), except that it is in fact more efficient to have a sales office in Y. In fact, without a sales office in Y, A would find it difficult to explore business opportunities in Y. A is aware, however, that residency in Y would permit its sales representative to comply with Y's boycott laws.

A's sales representative is a bona fide resident of Y, because A has a legitimate business reason for establishing a sales office in Y.

(xv) U.S. company B is a computer manufacturer. B sells computers and related programming services tailored to the needs of individual clients. Because of the complex nature of the product, B must have sales representatives in any country where sales are made. B has a sales representative, A, in boycotting country Y. A spends two months of the year in Y, and the rest of the year in other countries. B has a permanent sales office from which A operates while in Y, and the sales office is stocked with brochures and other sales materials.

A is a bona fide resident of Y, because his presence in Y is necessary to carry out B's legitimate business purposes; B maintains a permanent office in Y; and B intends to continue doing business in Y in the future.

(xvi) A, a U.S. construction engineering company, is engaged by B, a U.S. general contracting company, to provide services in connection with B's contract to construct a hospital complex in boycotting country Y. In order to perform those services, A's engineers set up a temporary office in a trailer on the construction site in Y. A's work is expected to be completed within six months.

A's personnel in Y are bona fide residents of Y, because A's on-site office is necessary to the performance of its services for B, and because A's personnel are continuously there.

(xvii) A, a U.S. company, sends one of its representatives to boycotting country Y to explore new sales possibilities for its line of transistor radios. After spending several weeks in Y, A's representative rents a post office box in Y, to which all persons interested in A's products are directed to make inquiry.

A is not a bona fide resident of Y, because rental of a post office box is not a sufficient presence in Y to constitute residency.

(xviii) A, a U.S. computer company, has a patent and trademark registered in the United States. In order to obtain registration of its patent and trademark in boycotting country Y, A is required to furnish certain non-discriminatory boycott information.

A may not furnish the information, because A is not a bona fide resident of Y.

(h) *Activities exclusively within a foreign country.* (1) Any United States person who is a bona fide resident of a foreign country, including a boycotting country, may comply or agree to comply with the laws of that country with

respect to his activities exclusively within that country. These activities include:

(i) Entering into contracts which provide that local law applies or governs, or that the parties will comply with such laws;

(ii) Employing residents of the host country;

(iii) Retaining local contractors to perform work within the host country;

(iv) Purchasing or selling goods or services from or to residents of the host country; and

(v) Furnishing information within the host country.

(2) Activities exclusively within the country do not include importing goods or services from outside the host country, and, therefore, this part of the exception does not apply to compliance with import laws in connection with importing goods or services.

EXAMPLES OF PERMISSIBLE COMPLIANCE WITH LOCAL LAW WITH RESPECT TO ACTIVITIES EXCLUSIVELY WITHIN A FOREIGN COUNTRY

The following examples are intended to give guidance in determining the circumstances in which compliance with local law is permissible. They are illustrative, not comprehensive.

ACTIVITIES EXCLUSIVELY WITHIN A FOREIGN COUNTRY

(i) U.S. construction company A, a bona fide resident of boycotting country Y, has a contract to build a school complex in Y. Pursuant to Y's boycott laws, the contract requires A to refuse to purchase supplies from certain local merchants. While Y permits such merchants to operate within Y, their freedom of action in Y is constrained because of their relationship with boycotted country X.

A may enter into the contract, because dealings with local merchants are activities exclusively within Y.

(ii) A, a banking subsidiary of U.S. bank B, is a bona fide resident of boycotting country Y. From time to time, A purchases office supplies from the United States.

A's purchase of office supplies is not an activity exclusively within Y, because it involves the import of goods from abroad.

(iii) A, a branch of U.S. bank B, is a bona fide resident of boycotting country Y. Under Y's boycott laws, A is required to supply information about whether A has any dealings with boycotted country X. A compiles and furnishes the information within Y and does so of its own knowledge.

A may comply with that requirement, because in compiling and furnishing the information within Y, based on its own knowledge, A is engaging in an activity exclusively within Y.

(iv) Same as (iii), except that A is required to supply information about B's dealings with X. From its own knowledge and without making any inquiry of B, A compiles and furnishes the information.

A may comply with that requirement, because in compiling and furnishing the information within Y, based on its own knowledge, A is engaging in an activity exclusively within Y.

(v) Same as (iv), except that in making its responses, A asks B to compile some of the information.

A may not comply, because the gathering of the necessary information takes place partially outside Y.

(vi) U.S. company A has applied for a license to establish a permanent manufacturing facility in boycotting country Y. Under Y's boycott law, A must agree, as a condition of the license, that it will not sell any of its output to blacklisted foreign firms.

A may not comply, because the agreement would govern activities of A which are not exclusively within Y.

DISCRIMINATION AGAINST UNITED STATES PERSONS

(i) A, a subsidiary of U.S. company B, is a bona fide resident of boycotting country Y. A manufactures air conditioners in its plant in Y. Under Y's boycott laws, A must agree not to hire nationals of boycotted country X.

A may agree to the restriction and may abide by it with respect to its recruitment of individuals within Y, because the recruitment of such individuals is an activity exclusively within Y. However, A cannot abide by this restriction with respect to its recruitment of individuals outside Y, because this is not an activity exclusively within Y.

(ii) Same as (i), except that pursuant to Y's boycott laws, A must agree not to hire anyone who is of a designated religion.

A may not agree to this restriction, because the agreement calls for discrimination against U.S. persons on the basis of religion. It makes no difference whether the recruitment of the U.S. persons occurs within or without Y.

(NOTE: The exception for compliance with local law does not apply to boycott-based refusals to employ U.S. persons on the basis of race, religion, sex, or national origin even if the activity is exclusively within the boycotting country.)

(i) *Compliance with local import law.* (1) Any United States person who is a bona fide resident of a foreign country,

including a boycotting country, may, in importing goods, materials or components into that country, comply or agree to comply with the import laws of that country, provided that:

(i) The items are for his own use or for his use in performing contractual services within that country; and

(ii) In the normal course of business, the items are identifiable as to their source or origin at the time of their entry into the foreign country by:

(a) Uniqueness of design or appearance; or

(b) Trademark, trade name, or other identification normally on the items themselves, including their packaging.

(2) The factors that will be considered in determining whether a United States person is a bona fide resident of a foreign country are those set forth in paragraph (g) of this section. Bona fide residence of a United States company's subsidiary, affiliate, or other permanent establishment in a foreign country does not confer such residence on such United States company. Likewise, bona fide residence of a United States company's employee in a foreign country does not confer such residence on the entire company.

(3) A United States person who is a bona fide resident of a foreign country may take action under this exception through an agent outside the country, but the agent must act at the direction of the resident and not exercise his own discretion. Therefore, if a United States person resident in a boycotting country takes action to comply with a boycotting country's import law with respect to the importation of qualified goods, he may direct his agent in the United States on the action to be taken, but the United States agent himself may not exercise any discretion.

(4) For purposes of this exception, the test that governs whether goods or components of goods are specifically identifiable is identical to the test applied in paragraph (d) of this section on ''Compliance With Unilateral and Specific Selection'' to determine whether they are identifiable as to their source or origin in the normal course of business.

(5) The availability of this exception for the import of goods depends on whether the goods are intended for the United States person's own use at the time they are imported. It does not depend upon who has title to the goods at the time of importation into a foreign country.

(6) Goods are for the United States person's own use (including the performance of contractual services within the foreign country) if:

(i) They are to be consumed by the United States person;

(ii) They are to remain in the United States person's possession and to be used by that person;

(iii) They are to be used by the United States person in performing contractual services for another;

(iv) They are to be further manufactured, incorporated into, refined into, or reprocessed into another product to be manufactured for another; or

(v) They are to be incorporated into, or permanently affixed as a functional part of, a project to be constructed for another.

(7) Goods acquired to fill an order for such goods from another are not for the United States person's own use. Goods procured for another are not for one's own use, even if the furnishing of procurement services is the business in which the United States person is customarily engaged. Nor are goods obtained for simple resale acquired for one's own use, even if the United States person is engaged in the retail business. Likewise, goods obtained for inclusion in a turnkey project are not for one's own use if they are not customarily incorporated into, or do not customarily become permanently affixed as a functional part of the project.

(8) This part of the local law exception does not apply to the import of services, even when the United States person importing such services is a bona fide resident of a boycotting country and is importing them for his own use. In addition, this exception is available for a United States person who is a bona fide resident of a foreign country only when the individual or entity actually present within that country takes action through the exercise of his own discretion.

(9) Use of this exception will be monitored and continually reviewed to determine whether its continued availability is consistent with the national interest. Its availability may be limited or withdrawn as appropriate. In reviewing the continued availability of this exception, the effect that the inability to comply with local import laws would have on the economic and other relations of the United States with boycotting countries will be considered.

(10) A United States person who is a bona fide resident of a foreign country may comply or agree to comply with the host country's import laws even if he knows or has reason to know that particular laws are boycott-related. However, no United States person may comply or agree to comply with any host country law which would require him to discriminate against any United States person on the basis of race, religion, sex, or national origin, or to supply information about any United States person's race, religion, sex, or national origin.

EXAMPLES OF PERMISSIBLE COMPLIANCE WITH LOCAL IMPORT LAW

The following examples are intended to give guidance in determining the circumstances in which compliance with local import law is permissible. They are illustrative, not comprehensive.

COMPLIANCE BY A BONA FIDE RESIDENT

(i) A, a subsidiary of U.S. company B, is a bona fide resident of boycotting country Y and is engaged in oil drilling operations in Y. In acquiring certain large, specifically identifiable products for carrying out its operations in Y, A chooses only from non-blacklisted firms because Y's import laws prohibit the importation of goods from blacklisted firms. However, with respect to smaller items, B makes the selection on behalf of A and sends them to A in Y.

A may choose from non-blacklisted firms, because it is a U.S. person who is a bona fide resident in Y. However, because B is not resident in Y, B cannot make boycott-based selections to conform with Y's import laws prohibiting the importation of goods from blacklisted firms.

(ii) Same as (i), except that after making its choices on the larger items, A directs B to carry out its instructions by entering into appropriate contracts and making necessary shipping arrangements.

B may carry out A's instructions provided that A, a bona fide resident of Y, has in fact made the choice and B is exercising no discretion, but is acting only as A's agent.

(NOTE: Such transactions between related companies will be scrutinized carefully. A must in fact exercise the discretion and make the selections. If the discretion is exercised by B, B would be in violation of this part.)

(iii) U.S. construction company A has a contract to build a school in boycotting country Y. A's employees set up operations in Y for purposes of commencing construction. A's employees in Y advise A's headquarters in the United States that Y's import laws prohibit importation of goods manufactured by blacklisted firms. A's headquarters then issues invitations to bid only to non-blacklisted firms for certain specifically identifiable goods.

A's headquarters' choice of non-blacklisted suppliers is not a choice made by a U.S. person who is a bona fide resident of Y, because the discretion in issuing the bids was exercised in the United States, not in Y.

(iv) Same as (iii), except that A's employees in Y actually make the decision regarding to whom the bids should be issued.

The choices made by A's employees are choices made by U.S. persons who are bona fide residents of Y, because the discretion in choosing was exercised solely in Y.

(NOTE: Choices purportedly made by employees of U.S. companies who are resident in boycotting countries will be carefully scrutinized to ensure that the discretion was exercised entirely in the boycotting country.)

SPECIFICALLY IDENTIFIABLE GOODS

The test and examples as to what constitutes specifically identifiable goods are identical to those applicable under paragraph (d) of this section on ''Compliance With Unilateral Selection.''

IMPORTS FOR U.S. PERSON'S OWN USE WITHIN BOYCOTTING COUNTRY

(i) A, a subsidiary of U.S. company B, is a bona fide resident of boycotting country Y. A plans to import computer operated machine tools to be installed in its automobile plant in boycotting country Y. The computers are mounted on a separate bracket on the side of the equipment and are readily identifiable by brand name. A orders the tools from U.S. supplier C and specifies that C must incorporate computers manufactured by D, a non-blacklisted company. A would have chosen computers manufactured by E, except that E is blacklisted, and Y's import laws prohibit the importation of goods manufactured by blacklisted firms.

A may refuse to purchase E's computers, because A is importing the computers for its

own use in its manufacturing operations in Y.

(ii) A, a subsidiary of U.S. company B, is a bona fide resident of boycotting country Y. To meet the needs of its employees in Y, A imports certain specifically identifiable commissary items for sale, such as cosmetics; and canteen items, such as candy. In selecting such items for importation into Y, A chooses items made only by non-blacklisted firms, because Y's import laws prohibit importation of goods from blacklisted firms.

A may import these items only from non-blacklisted firms, because the importation of goods for consumption by A's employees is an importation for A's own use.

(iii) A, a U.S. construction company which is a bona fide resident of boycotting country Y, has a contract to build a hospital complex for the Ministry of Health in Y. Under the contract, A will be general manager of the project with discretion to choose all subcontractors and suppliers. The complex is to be built on a turnkey basis, with A retaining title to the property and bearing all financial risk until the complex is conveyed to Y. In choosing specifically identifiable goods for import, such as central air conditioning units and plate glass, A excludes blacklisted suppliers in order to comply with Y's import laws. These goods are customarily incorporated into, or permanently affixed as a functional part of, the project.

A may refuse to deal with blacklisted suppliers of specifically identifiable goods, because importation of goods by a general contractor to be incorporated into a construction project in Y is an importation of goods for A's own use.

(iv) Same as (iii), except that, in addition, in choosing U.S. architects and engineers to work on the project, A excludes blacklisted firms, because Y's import laws prohibit the use of services rendered by blacklisted persons.

A may not refuse to deal with blacklisted architectural or engineering firms, because this exception does not apply to the import of services. It is irrelevant that, at some stage, the architectural or engineering drawings or plans may be brought to the site in Y. This factor is insufficient to transform such services into ''goods'' for purposes of this exception.

(v) Same as (iii), except that the project is to be completed on a ''cost plus'' basis, with Y making progress payments to A at various stages of completion.

A may refuse to deal with blacklisted suppliers of specifically identifiable goods, because the importation of goods by A to be incorporated in a project A is under contract to complete is an importation of goods for its own use. The terms of payment are irrelevant.

(vi) A, a U.S. construction company which is a bona fide resident of boycotting country Y, has a contract for the construction of an office building in Y on a turnkey basis. In choosing goods to be used or included in the office complex, A orders wallboard, office partitions, and lighting fixtures from non-blacklisted manufacturers. A likewise orders desks, office chairs, typewriters, and office supplies from non-blacklisted manufacturers.

Because they are customarily incorporated into or permanently affixed as a functional part of an office building, the wallboard, office partitions, and lighting fixtures are for A's own use, and A may select non-blacklisted suppliers of these goods in order to comply with Y's import laws. Because they are not customarily incorporated into or permanently affixed to the project, the desks, office chairs, typewriters, and office supplies are not for A's own use, and A may not make boycott-based selections of the suppliers of these goods.

(vii) A, a U.S. company engaged in the business of selling automobiles, is a bona fide resident of boycotting country Y. In ordering automobiles from time to time for purposes of stocking its inventory, A purchases from U.S. manufacturer B, but not U.S. manufacturer C, because C is blacklisted. Retail sales are subsequently made from this inventory.

A's import of automobiles from B is not an import for A's own use, because the importation of items for general inventory in a retail sales operation is not an importation for one's own use.

(viii) A, a U.S. company engaged in the manufacture of pharmaceutical products, is a bona fide resident of boycotting country Y. In importing chemicals for incorporation into the pharmaceutical products, A purchases from U.S. supplier B, but not U.S. supplier C, because C is blacklisted.

A may import chemicals from B rather than C, because the importation of specifically identifiable items for incorporation into another product is an importation for one's own use.

(ix) A, a U.S. management company which is a bona fide resident of boycotting country Y, has a contract with the Ministry of Education in Y to purchase supplies for Y's school system. From time to time, A purchases goods from abroad for delivery to various schools in Y.

A's purchase of goods for Y's school system does not constitute an importation of goods for A's own use, because A is acting as a procurement agent for another. A, therefore, cannot make boycott-based selections of suppliers of such school supplies.

(x) A, a U.S. company which is a bona fide resident of boycotting country Y, has a contract to make purchases for Y in connection

with a construction project in Y. A is not engaged in the construction of, or in any other activity in connection with, the project. A's role is merely to purchase goods for Y and arrange for their delivery to Y.

A is not purchasing goods for its own use, because A is acting as a procurement agent for Y. A, therefore, cannot make boycott selections of suppliers of such goods.

(xi) A, a U.S. company which is a bona fide resident of boycotting country Y, imports specifically identifiable goods into Y for exhibit by A at a trade fair in Y. In selecting goods for exhibit, A excludes items made by blacklisted firms.

A's import of goods for its exhibit at a trade fair constitutes an import for A's own use. However, A may not sell in Y those goods it imported for exhibit.

(xii) A is a bona fide resident of boycotting countries Y and Z. In compliance with Y's boycott laws, A chooses specifically identifiable goods for its oil drilling operations in Y and Z by excluding blacklisted suppliers. The goods are first imported into Y. Those purchased for A's use in Z are then transshipped to Z.

In selecting those goods for importation into Y, A is making an import selection for its own use, even though A may use some of the imported goods in Z. Further, the subsequent shipment from Y to Z of those goods purchased for use in Z is an import into Z for A's own use.

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§ 760.4 Evasion.

(a) No United States person may engage in any transaction or take any other action, either independently or through any other person, with intent to evade the provisions of this part. Nor may any United States person assist another United States person to violate or evade the provisions of this part.

(b) The exceptions set forth in § 760.3(a) through (i) do not permit activities or agreements (express or implied by a course of conduct, including a pattern of responses) which are otherwise prohibited by this part and which are not within the intent of such exceptions. However, activities within the coverage and intent of the exceptions set forth in this part do not constitute evasion regardless of how often such exceptions are utilized.

(c) Use of any artifice, device or scheme which is intended to place a person at a commercial disadvantage or impose on him special burdens because he is blacklisted or otherwise restricted for boycott reasons from having a business relationship with or in a boycotting country will be regarded as evasion for purposes of this part.

(d) Unless permitted under one of the exceptions, use of risk of loss provisions that expressly impose a financial risk on another because of the import laws of a boycotting country may constitute evasion. If they are introduced after January 18, 1978, their use will be presumed to constitute evasion. This presumption may be rebutted by a showing that such a provision is in customary usage without distinction between boycotting and non-boycotting countries and that there is a legitimate non-boycott reason for its use. On the other hand, use of such a provision by a United States person subsequent to January 18, 1978 is presumed not to constitute evasion if the provision had been customarily used by that person prior to January 18, 1978.

(e) Use of dummy corporations or other devices to mask prohibited activity will also be regarded as evasion. Similarly, it is evasion under this part to divert specific boycotting country orders from a United States parent to a foreign subsidiary for purposes of complying with prohibited boycott requirements. However, alteration of a person's structure or method of doing business will not constitute evasion so long as the alteration is based on legitimate business considerations and is not undertaken solely to avoid the application of the prohibitions of this part. The facts and circumstances of an arrangement or transaction will be carefully scrutinized to see whether appearances conform to reality.

EXAMPLES

The following examples are intended to give guidance to persons in determining circumstances in which this section will apply. They are illustrative, not comprehensive.

(i) A, a U.S. insurance company, receives a request from boycotting country Y asking whether it does business in boycotted country X. Because furnishing such information is prohibited, A declines to answer and as a result is placed on Y's blacklist. The following year, A's annual report contains new information about A's worldwide operations, including a list of all countries in which A

does business. A then mails a copy of its annual report, which has never before contained such information, to officials of the government of country Y.

Absent some business justification unrelated to the boycott for changing the annual report in this fashion, A's action constitutes evasion of this part.

(ii) A, a U.S. construction firm resident in boycotting country Y, orders lumber from U.S. company B. A unilaterally selects B in part because U.S. lumber producer C is blacklisted by Y and C's products are therefore not importable. In placing its order with B, A requests that B stamp its name or logo on the lumber so that A ''can be certain that it is, in fact, receiving B's products.'' B does not normally so stamp its lumber, and A's purpose in making the request is to appear to fit within the unilateral selection exception of this part.

Absent additional facts justifying A's action, A's action constitutes evasion of this part.

(iii) A, a U.S. company, has been selling sewing machines to boycotting country Y for a number of years. A receives a request for a negative certificate of origin from a new customer. A is aware that furnishing such certificates are prohibited; therefore, A arranges to have all future shipments run through a foreign corporation in a third country which will affix the necessary negative certificate before forwarding the machines on to Y.

A's action constitutes evasion of this part, because it is a device to mask prohibited activity carried out on A's behalf.

(iv) A, a U.S. company, has been selling calculators to distributor B in country C for a number of years and routinely supplies positive certificates of origin. A receives an order from country Y which requires negative certificates of origin. A arranges to make all future sales to distributor B in country C. A knows B will step in and make the sales to Y which A would otherwise have made directly. B will make the necessary negative certifications. A's warranty, which it will continue to honor, runs to the purchaser in Y.

A's action constitutes evasion, because the diverting of orders to B is a device to mask prohibited activity carried out on A's behalf.

(v) A, a U.S. company, is negotiating a long-term contract with boycotting country Y to meet all Y's medical supply needs. Y informs A that before such a contract can be concluded, A must complete Y's boycott questionnaire. A knows that it is prohibited from answering the questionnaire so it arranges for a local agent in Y to supply the necessary information.

A's action constitutes evasion of this part, because it is a device to mask prohibited activity carried out on A's behalf.

(vi) A, a U.S. contractor which has not previously dealt with boycotting country Y, is awarded a construction contract by Y. Because it is customary in the construction industry for a contractor to establish an on-site facility for the duration of the project, A establishes such an office, which satisfies the requirements for bona fide residency. Thereafter, A's office in Y takes a number of actions permitted under the compliance with local law exception.

A's actions do not constitute evasion, because A's facility in Y was established for legitimate business reasons.

(vii) A, a controlled foreign subsidiary of U.S. company B, is located in non-boycotting country M. A and B both make machine tools for sale in their respective marketing regions. B's marketing region includes boycotting country Y. After assessing the requirements of this part, B decides that it can no longer make machines for sale in Y. Instead, A decides to expand its facilities in M in order to service the Y market.

The actions of A and B do not constitute evasion, because there is a legitimate business reason for their actions. It is irrelevant that the effect may be to place sales which would otherwise have been subject to this part beyond the reach of this part.

(viii) A, a U.S. manufacturer, from time to time receives purchase orders from boycotting country Y which A fills from its plant in the United States. A knows that it is about to receive an order from Y which contains a request for a certification which A is prohibited from furnishing under this part. In order to permit the certification to be made, A diverts the purchase order to its foreign subsidiary.

A's diversion of the purchase order constitutes evasion of this part, because it is a device to mask prohibited activity carried out on A's behalf.

(ix) A, a U.S. company, is engaged in assembling drilling rigs for shipment to boycotting country Y. Because of potential difficulties in securing entry into Y of materials supplied by blacklisted firms, A insists that blacklisted firms take a 15 percent discount on all materials which they supply to A. As a result, no blacklisted firms are willing to transact with A.

A's insistence on the discount for materials supplied by blacklisted firms constitutes evasion of this part, because it is a device or scheme which is intended to place a special burden on blacklisted firms because of Y's boycott.

(x) Same as (ix), except that shortly after January 18, 1978, A, a U.S. company, insists that its suppliers sign contracts which provide that even after title passes from the supplier to A, the supplier will bear the risk of loss and indemnify A if goods which the supplier has furnished are denied entry into Y for boycott reasons.

A's action constitutes evasion of this part, because it is a device or scheme which is intended to place a special burden on blacklisted persons because of Y's boycott.

(xi) Same as (x), except that A customarily insisted on such an arrangement with its supplier prior to January 18, 1978.

A's action is presumed not to constitute evasion, because use of this contractual arrangement was customary for A prior to January 18, 1978.

(xii) A, a U.S. company, has a contract to supply automobile sub-assembly units to boycotting country Y. Shortly after January 18, 1978, A insists that its suppliers sign contracts which provide that even after title passes to A, the supplier will bear the risk of loss and indemnify A if goods which the supplier has furnished are denied entry into boycotting country Y for any reason.

A's insistence on this arrangement is presumed to constitute evasion, because it is a device which is intended to place a special burden on blacklisted firms because of Y's boycott. The presumption may be rebutted by competent evidence showing that use of such an arrangement is customary without regard to the boycotting or non-boycotting character of the country to which it relates and that there is a legitimate non-boycott business reason for its use.

(xiii) Same as (vii), except that A requires that all suppliers make in-country delivery.

A's action does not constitute evasion, because it is an ordinary commercial practice to require in-country delivery of goods.

(xiv) Same as (xii), except that A requires that title remain with the supplier until delivery in Y has been made.

A's action does not constitute evasion, because it is ordinary commercial practice to require that title remain with the supplier until delivery has been made. This example is distinguishable from example (xii), because in example (xii) A had insisted on an extraordinary arrangement designed to require that the risk of loss remain with the supplier even after title had passed to A.

(xv) U.S. bank A is contacted by U.S. company B to finance B's transaction with boycotting country Y. Payment will be effected through a letter of credit in favor of B at its U.S. address. A knows that the letter of credit will contain restrictive boycott conditions which would bar its implementation by A if the beneficiary were a U.S. person. A advises B of the boycott condition and suggests to B that the beneficiary should be changed to C, a shell corporation in non-boycotting country M. The beneficiary is changed accordingly.

The actions of both A and B constitute evasion of this part, because the arrangement is a device to mask prohibited activities.

(xvi) Same as (xv), except that U.S. company B, the beneficiary of the letter of credit, arranges to change the beneficiary to B's foreign subsidiary so that A can implement the letter of credit. A knows that this has been done.

A's implementation of the letter of credit in the face of its knowledge of B's action constitutes evasion of this part, because A's action is part of a device to mask prohibited activity by both parties.

(xvii) U.S. bank A, located in the United States, is contacted by foreign company B to finance B's transaction with boycotting country Y. B is a controlled subsidiary of a U.S. company. The transaction which is to be financed with a letter of credit payable to B at its foreign address, requires B to certify that none of its board members are of a particular religious faith. Since B cannot legally furnish the certificate, it asks A to convey the necessary information to Y through A's bank branch in Y. Such information would be furnished wholly outside the letter of credit transaction.

A's action constitutes evasion of this part, because it is undertaken to assist B's violation of this part.

(xviii) U.S. bank A is asked by foreign corporation B to implement a letter of credit in favor of B so that B might perform under its long-term contract with boycotting country Y. Under the terms of the letter of credit, B is required to certify that none of its suppliers is blacklisted. A knows that it cannot implement a letter of credit with this condition, so it tells B to negotiate the elimination of this requirement from the letter of credit and instead supply the certification to Y directly.

A's suggestion to B that it provide the negative certification to Y directly constitutes evasion of this part, because A is taking an action through another person to mask prohibited activity on A's part.

[61 FR 12862, Mar. 25, 1996, as amended at 65 FR 34947, June 1, 2000]

§ 760.5 Reporting requirements.

(a) *Scope of reporting requirements.* (1) A United States person who receives a request to take any action which has the effect of furthering or supporting a restrictive trade practice or boycott fostered or imposed by a foreign country against a country friendly to the United States or against any United States person must report such request to the Department of Commerce in accordance with the requirements of this section. Such a request may be either written or oral and may include a request to furnish information or enter into or implement an agreement. It may also include a solicitation, directive, legend or instruction that asks

for information or that asks that a United States person take or refrain from taking a particular action. Such a request shall be reported regardless of whether the action requested is prohibited or permissible under this part, except as otherwise provided by this section.

(2) For purposes of this section, a request received by a United States person is reportable if he knows or has reason to know that the purpose of the request is to enforce, implement, or otherwise further, support, or secure compliance with an unsanctioned foreign boycott or restrictive trade practice.

(i) A request received by a United States person located in the United States is reportable if it is received in connection with a transaction or activity in the interstate or foreign commerce of the United States, as determined under § 760.1(d)(1) through (5) and (18) of this part.

(ii) A request received by a United States person located outside the United States (that is, a foreign subsidiary, partnership, affiliate, branch, office, or other permanent foreign establishment which is controlled in fact by any domestic concern, as determined under § 760.1(c) of this part) is reportable if it is received in connection with a transaction or activity in the interstate or foreign commerce of the United States, as determined under § 760.1(d)(6) through (17) and (19) of this part.

(iii) A request such as a boycott questionnaire, unrelated to a particular transaction or activity, received by any United States person is reportable when such person has or anticipates a business relationship with or in a boycotting country involving the sale, purchase or transfer of goods or services (including information) in the interstate or foreign commerce of the United States, as determined under § 760.1(d) of this part.

(3) These reporting requirements apply to all United States persons. They apply whether the United States person receiving the request is an exporter, bank or other financial institution, insurer, freight forwarder, manufacturer, or any other United States person subject to this part.

(4) The acquisition of information about a boycotting country's boycott requirements through the receipt or review of books, pamphlets, legal texts, exporters' guidebooks and other similar publications does not constitute receipt of a reportable request for purposes of this section. In addition, a United States person who receives an unsolicited invitation to bid, or similar proposal, containing a boycott request has not received a reportable request for purposes of this section where he does not respond to the invitation to bid or other proposal.

(5) Because of the use of certain terms for boycott and non-boycott purposes; because of Congressional mandates to provide clear and precise guidelines in areas of inherent uncertainty; and because of the Department's commitment to minimize paperwork and reduce the cost of reporting where it will not impair the Department's ability to continue to monitor foreign boycotts, the following specific requests are not reportable:

(i) A request to refrain from shipping goods on a carrier which flies the flag of a particular country or which is owned, chartered, leased or operated by a particular country or by nationals or residents of a particular country, or a request to certify to that effect.

(ii) A request to ship goods via a prescribed route, or a request to refrain from shipping goods via a proscribed route, or a request to certify to either effect.

(iii) A request to supply an affirmative statement or certification regarding the country of origin of goods.

(iv) A request to supply an affirmative statement or certification regarding the name of the supplier or manufacturer of the goods shipped or the name of the provider of services.

(v) A request to comply with the laws of another country except where the request expressly requires compliance with that country's boycott laws.

(vi) A request to an individual to supply information about himself or a member of his family for immigration, passport, visa, or employment purposes.

(vii) A request to supply an affirmative statement or certification indicating the destination of exports or

confirming or otherwise indicating that such cargo will be unloaded or discharged at a particular destination.

(viii) A request to supply a certificate by the owner, master, charterer, or any employee thereof, that a vessel, aircraft, truck or any other mode of transportation is eligible, otherwise eligible, permitted, or allowed to enter, or not restricted from entering, a particular port, country, or group of countries pursuant to the laws, rules, or regulations of that port, country, or group of countries.

(ix) A request to supply a certificate from an insurance company stating that the insurance company has a duly authorized agent or representative within a boycotting country and/or the name and address of such agent.

(x) A request to comply with a term or condition of a transaction that provides that the vendor bear the risk of loss and indemnify the purchaser if the vendor's goods are denied entry into a country for any reason (''risk of loss clause'') if such clause was in use by the purchaser prior to January 18, 1978.

(6) No United States person may engage in any transaction or take any other action, either independently or through any other person, with intent to evade the provisions of this part.

(7) From time to time the Department will survey domestic concerns for purposes of determining the worldwide scope of boycott requests received by their controlled foreign subsidiaries and affiliates with respect to their activities outside United States commerce. This pertains to requests which would be reportable under this section but for the fact that the activities to which the requests relate are outside United States commerce. The information requested will include the number and nature of non-reportable boycott requests received, the action(s) requested, the actions(s) taken in response and the countries in which the requests originate. The results of such surveys, including the names of those surveyed, will be made public.

(b) *Manner of reporting.* (1) Each reportable request must be reported. However, if more than one document (such as an invitation to bid, purchase order, or letter of credit) containing the same boycott request is received as part of the same transaction, only the first such request need be reported. Individual shipments against the same purchase order or letter of credit are to be treated as part of the same transaction. Each different boycott request associated with a given transaction must be reported, regardless of how or when the request is received.

(2) Each United States person actually receiving a reportable request must report that request. However, such person may designate someone else to report on his behalf. For example, a United States company, if authorized, may report on behalf of its controlled foreign subsidiary or affiliates; a freight forwarder, if authorized, may report on behalf of the exporter; and a bank, if authorized, may report on behalf of the beneficiary of a letter of credit. If a person designated to report a request received by another receives an identical request directed to him in connection with the same transaction, he may file one report on behalf of himself and the other person.

(3) Where a person is designated to report on behalf of another, the person receiving the request remains liable for any failure to report or for any representations made on his behalf. Further, anyone reporting on behalf of another is not relieved of his own responsibility for reporting any boycott request which he receives, even if it is an identical request in connection with the same transaction.

(4) Reports may be submitted by mail or electronically. Mailed paper reports must be submitted in duplicate to: Report Processing Staff, Office of Antiboycott Compliance, U.S. Department of Commerce, Room 6098, Washington, DC 20230. Electronic reports must be submitted in duplicate, by following the prompts on the screen, through the Office of Antiboycott Compliance Web page of the BIS Web site, *http://bis.doc.gov/index.php/enforcement/oac?id=300*. Each submission, whether paper or electronic, must be made in accordance with the following requirements:

(i) Where the person receiving the request is a United States person located in the United States, each report of requests must be postmarked or electronically date-stamped by the last day

of the month following the calendar quarter in which the request was received (*e.g.*, April 30 for the quarter consisting of January, February, and March).

(ii) Where the person receiving the request is a United States person located outside the United States, each report of requests must be postmarked or electronically date-stamped by the last day of the second month following the calendar quarter in which the request was received (*e.g.*, May 31 for the quarter consisting of January, February, and March).

(5) Mailed paper reports may, at the reporting person's option, be submitted on either a single transaction form (Form BIS–621P, Report of Request for Restrictive Trade Practice or Boycott, Single Transaction, (revised 10–89)) or on a multiple transaction form (Form BIS–6051P, Report of Request for Restrictive Trade Practice or Boycott, Multiple Transactions, (revised 10–89)). Electronic reports may be submitted only on the single transaction form, which will electronically reproduce the reporting person's identifying information to facilitate reporting of multiple transactions.

(6) Reports, whether submitted on the paper single transaction form or on the paper multiple transaction form, or submitted electronically, must contain entries for every applicable item on the form, including whether the reporting person intends to take or has taken the action requested. If the reporting person has not decided what action he will take by the time the report is required to be filed, he must later report the action he decides to take within 10 business days after deciding. In addition, anyone filing a report on behalf of another must so indicate and identify that other person.

(7) Each report of a boycott request, whether submitted by mail or electronically, must be accompanied by two copies of the relevant page(s) of any document(s) in which the request appears (*see*, paragraph (c)(2) of this section). For mail submissions, the relevant pages shall be attached in paper format to the report form; for electronic submissions, the relevant pages shall be attached in PDF format to the electronic submission. Reports, whether paper or electronic, may also be accompanied by any additional information relating to the request as the reporting person desires to provide concerning his response to the request. For electronic submissions, such additional information should be provided as a PDF attachment.

(8) Records containing information relating to a reportable boycott request, including a copy of any document(s) in which the request appears, must be maintained by the recipient for a five-year period after receipt of the request. The Department may require that these materials be submitted to it or that it have access to them at any time within that period. (See part 762 of the EAR for additional recordkeeping requirements.)

(c) *Disclosure of information.* (1) Reports of requests received on or after October 7, 1976, as well as any accompanying documents filed with the reports, have been and will continue to be made available for public inspection and copying, except for certain proprietary information. With respect to reports of requests received on or after August 1, 1978, if the person making the report certifies that a United States person to whom the report relates would be placed at a competitive disadvantage because of the disclosure of information regarding the quantity, description, or value of any articles, materials, and supplies, including related technical data and other information, whether contained in a report or in any accompanying document(s), such information will not be publicly disclosed except upon failure by the reporting entity to edit the public inspection copy of the accompanying document(s) as provided by paragraph (c)(2) of this section, unless the Secretary of Commerce determines that the disclosure would not place the United States person involved at a competitive disadvantage or that it would be contrary to the national interest to withhold the information. In the event the Secretary of Commerce considers making such a determination concerning competitive disadvantage, appropriate notice and an opportunity for comment will be given before any

such proprietary information is publicly disclosed. In no event will requests of reporting persons to withhold any information contained in the report other than that specified in this paragraph be honored.

(2) Because a copy of any document(s) accompanying the report will be made available for public inspection and copying, one copy must be submitted intact and another copy must be edited by the reporting entity to delete the same information which it certified in the report would place a United States person at a competitive disadvantage if disclosed. In addition, the reporting entity may delete from this copy information that is considered confidential and that is not required to be contained in the report (e.g., information related to foreign consignee). This copy should be conspicuously marked with the legend ''Public Inspection Copy.'' With respect to documents accompanying reports received by the Department on or after July 1, 1979, the public inspection copy will be made available as submitted whether or not it has been appropriately edited by the reporting entity as provided by this paragraph.

(3) Reports and accompanying documents which are available to the public for inspection and copying are located in the BIS Freedom of Information Records Inspection Facility, Room 4525, Department of Commerce, 14th Street and Constitution Avenue, N.W., Washington, D.C. 20230. Requests to inspect such documents should be addressed to that facility.

(4) The Secretary of Commerce will periodically transmit summaries of the information contained in the reports to the Secretary of State for such action as the Secretary of State, in consultation with the Secretary of Commerce, may deem appropriate for carrying out the policies in section 8(b)(2) of the Export Administration Act of 1979.

EXAMPLES

The following examples are intended to give guidance in determining what is reportable. They are illustrative, not comprehensive.

(i) A, a U.S. manufacturer, is shipping goods to boycotting country Y and is asked by Y to certify that it is not blacklisted by Y's boycott office.

The request to A is reportable, because it is a request to A to comply with Y's boycott requirements.

(ii) A, a U.S. manufacturing company, receives an order for tractors from boycotting country Y. Y's order specifies that the tires on the tractors be made by B, another U.S. company. A believes Y has specified B as the tire supplier because otherwise A would have used tires made by C, a blacklisted company, and Y will not take shipment of tractors containing tires made by blacklisted companies.

A must report Y's request for tires made by B, because A has reason to know that B was chosen for boycott reasons.

(iii) Same as (ii), except A knows that Y's request has nothing to do with the boycott but simply reflects Y's preference for tires made by B.

Y's request is not reportable, because it is unrelated to Y's boycott.

(iv) Same as (ii), except A neither knows nor has reason to know why Y has chosen B.

Y's request is not reportable, because A neither knows nor has reason to know that Y's request is based on Y's boycott.

(v) A, a controlled foreign subsidiary of U.S. company B, is a resident of boycotting country Y. A is a general contractor. After being supplied by A with a list of competent subcontractors, A's customer instructs A to use subcontractor C on the project. A believes that C was chosen because, among other things, the other listed subcontractors are blacklisted.

The instruction to A by its customer that C be used on the project is reportable, because it is a request to comply with Y's boycott requirements.

(vi) A, a controlled foreign subsidiary of U.S. company B, is located in non-boycotting country P. A receives an order for washing machines from boycotting country Y. Y instructs A that a negative certificate of origin must accompany the shipment. The washing machines are made wholly in P, without U.S. components.

Y's instruction to A regarding the negative certificate of origin is not reportable, because the transaction to which it relates is not in U.S. commerce.

(vii) Same as (vi), except that A obtains components from the United States for the purpose of filling the order from Y. Y's instruction to A regarding the negative certificate of origin is reportable, because the transaction to which it relates is in U.S. commerce.

(viii) A, a U.S. construction company, receives in the mail an unsolicited invitation to bid on a construction project in boycotting country Y. The invitation to bid requires those who respond to certify that they do not have any plants or branch offices in boycotted country X. A does not respond.

A's receipt of the unsolicited invitation to bid is not reportable, because the request does not relate to any present or anticipated business of A with or in Y.

(ix) Same as (viii), except that A receives a boycott questionnaire from a central boycott office. A does not do business in any of the boycotting countries involved, and does not anticipate doing any business in those countries. A does not respond.

A's receipt of the boycott questionnaire is not reportable, because it does not relate to any present or anticipated business by A with or in a boycotting country.

(x) A, a U.S. manufacturer, is seeking markets in which to expand its exports. A sends a representative to boycotting country Y to explore Y's potential as a market for A's products. A's representative discusses its products but does not enter into any contracts on that trip. A does, however, hope that sales will materialize in the future. Subsequently, A receives a boycott questionnaire from Y.

A's receipt of the boycott questionnaire is reportable, because the request relates to A's anticipated business with or in a boycotting country. For purposes of determining whether a report is required, it makes no difference whether A responds to the questionnaire, and it makes no difference that actual sales contracts are not in existence or do not materialize.

(xi) Same as (x), except that A's representative enters into a contract to sell A's products to a buyer in boycotting country Y. Subsequently, A receives a boycott questionnaire from Y.

A's receipt of the boycott questionnaire is reportable, because it relates to A's present business with or in a boycotting country. For purposes of determining whether a report is required, it makes no difference whether A responds to the questionnaire.

(xii) A, a U.S. freight forwarder, purchases an exporter's guidebook which includes the import requirements of boycotting country Y. The guidebook contains descriptions of actions which U.S. exporters must take in order to make delivery of goods to Y.

A's acquisition of the guidebook is not reportable, because he has not received a request from anyone.

(xiii) A, a U.S. freight forwarder, is arranging for the shipment of goods to boycotting country Y at the request of B, a U.S. exporter. B asks A to assume responsibility to assure that the documentation accompanying the shipment is in compliance with Y's import requirements. A examines an exporters' guidebook, determines that Y's import regulations require a certification that the insurer of the goods is not blacklisted and asks U.S. insurer C for such a certification.

B's request to A is reportable by A, because it constitutes a request to comply with Y's boycott as of the time A takes action to comply with Y's boycott requirements in response to the request. A's request to C is reportable by C.

(xiv) A, a U.S. freight forwarder, is arranging for the shipment of U.S. goods to boycotting country Y. The manufacturer supplies A with all the necessary documentation to accompany the shipment. Among the documents supplied by the manufacturer is his certificate that he himself is not blacklisted. A transmits the documentation supplied by the manufacturer.

A's action in merely transmitting documents received from the manufacturer is not reportable, because A has received no request to comply with Y's boycott.

(xv) Same as (xiv), except that A is asked by U.S. exporter B to assume the responsibility to assure that the necessary documentation accompanies the shipment whatever that documentation might be. B forwards to A a letter of credit which requires that a negative certificate of origin accompany the bill of lading. A supplies a positive certificate of origin.

Both A and B must report receipt of the letter of credit, because it contains a request to both of them to comply with Y's boycott.

(xvi) Same as (xiv), except that the manufacturer fails to supply a required negative certificate of origin, and A is subsequently asked by a consular official of Y to see to it that the certificate is supplied. A supplies a positive certificate of origin.

The consular official's request to A is reportable by A, because A was asked to comply with Y's boycott requirements by supplying the negative certificate of origin.

(xvii) A, a U.S. manufacturer, is shipping goods to boycotting country Y. Arrangements have been made for freight forwarder B to handle the shipment and secure all necessary shipping certifications. B notes that the letter of credit requires that the manufacturer supply a negative certificate of origin and B asks A to do so. A supplies a positive certificate of origin.

B's request to A is reportable by A, because A is asked to comply with Y's boycott requirements by providing the negative certificate.

(xviii) A, a controlled foreign subsidiary of U.S. company B, is a resident of boycotting country Y. A is engaged in oil exploration and drilling operations in Y. In placing orders for drilling equipment to be shipped from the United States, A, in compliance with Y's laws, selects only those suppliers who are not blacklisted.

A's action in choosing non-blacklisted suppliers is not reportable, because A has not received a request to comply with Y's boycott in making these selections.

(xix) A, a controlled foreign subsidiary of U.S. company B, is seeking permission to do business in boycotting country Y. Before

being granted such permission, A is asked to sign an agreement to comply with Y's boycott laws.

The request to A is reportable, because it is a request that expressly requires compliance with Y's boycott law and is received in connection with A's anticipated business in Y.

(xx) A, a U.S. bank, is asked by a firm in boycotting country Y to confirm a letter of credit in favor of B, a U.S. company. The letter of credit calls for a certificate from B that the goods to be supplied are not produced by a firm blacklisted by Y. A informs B of the letter of credit, including its certification condition, and sends B a copy.

B must report the certification request contained in the letter of credit, and A must report the request to confirm the letter of credit containing the boycott condition, because both are being asked to comply with Y's boycott.

(xxi) Same as (xx), except that the letter of credit calls for a certificate from the beneficiary that the goods will not be shipped on a vessel that will call at a port in boycotted country X before making delivery in Y.

The request is not reportable, because it is a request of a type deemed by this section to be in common use for non-boycott purposes.

(xxii) A, a U.S. company, receives a letter of credit from boycotting country Y stating that on no condition may a bank blacklisted by Y be permitted to negotiate the credit.

A's receipt of the letter of credit is reportable, because it contains a request to A to comply with Y's boycott requirements.

(xxiii) A, a U.S. bank, receives a demand draft from B, a U.S. company, in connection with B's shipment of goods to boycotting country Y. The draft contains a directive that it is valid in all countries except boycotted country X.

A's receipt of the demand draft is reportable, because it contains a request to A to comply with Y's boycott requirements.

(xxiv) A, a U.S. exporter, receives an order from boycotting country Y. On the order is a legend that A's goods, invoices, and packaging must not bear a six-pointed star or other symbol of boycotted country X.

A's receipt of the order is reportable, because it contains a request to comply with Y's boycott requirements.

(xxv) Same as (xxiv), except the order contains a statement that goods exported must not represent part of war reparations to boycotted country X.

A's receipt of the order is reportable, because it contains a request to A to comply with Y's boycott requirements.

(xxvi) A, a U.S. contractor, is negotiating with boycotting country Y to build a school in Y. During the course of the negotiations, Y suggests that one of the terms of the construction contract be that A agree not to import materials produced in boycotted country X. It is A's company policy not to agree to such a contractual clause, and A suggests that instead it agree that all of the necessary materials will be obtained from U.S. suppliers. Y agrees to A's suggestion and a contract is executed.

A has received a reportable request, but, for purposes of reporting, the request is deemed to be received when the contract is executed.

(xxvii) Same as (xxvi), except Y does not accept A's suggested alternative clause and negotiations break off.

A's receipt of Y's request is reportable. For purposes of reporting, it makes no difference that A was not successful in the negotiations. The request is deemed to be received at the time the negotiations break off.

(xxviii) A, a U.S. insurance company, is insuring the shipment of drilling equipment to boycotting country Y. The transaction is being financed by a letter of credit which requires that A certify that it is not blacklisted by Y. Freight forwarder B asks A to supply the certification in order to satisfy the requirements of the letter of credit.

The request to A is reportable by A, because it is a request to comply with Y's boycott requirements.

(xxix) A, a U.S. manufacturer, is engaged from time-to-time in supplying drilling rigs to company B in boycotting country Y. B insists that its suppliers sign contracts which provide that, even after title passes from the supplier to B, the supplier will bear the risk of loss and indemnify B if goods which the supplier has furnished are denied entry into Y for whatever reason. A knows or has reason to know that this contractual provision is required by B because of Y's boycott, and that B has been using the provision since 1977. A receives an order from B which contains such a clause.

B's request is not reportable by A, because the request is deemed to be not reportable by these regulations if the provision was in use by B prior to January 18, 1978.

(xxx) Same as (xxix), except that A does not know when B began using the provision.

Unless A receives information from B that B introduced the term prior to January 18, 1978, A must report receipt of the request.

(xxxi) A, a U.S. citizen, is a shipping clerk for B, a U.S. manufacturing company. In the course of his employment, A receives an order for goods from boycotting country Y. The order specifies that none of the components of the goods is to be furnished by blacklisted firms.

B must report the request received by its employee, A, acting in the scope of his employment. Although A is a U.S. person, such an individual does not have a separate obligation to report requests received by him in his capacity as an employee of B.

(xxxii) U.S. exporter A is negotiating a transaction with boycotting country Y. A

knows that at the conclusion of the negotiations he will be asked by Y to supply certain boycott-related information and that such a request is reportable. In an effort to forestall the request and thereby avoid having to file a report, A supplies the information in advance.

A is deemed to have received a reportable request.

(xxxiii) A, a controlled foreign affiliate of U.S. company B, receives an order for computers from boycotting country Y and obtains components from the United States for the purpose of filling the order. Y instructs A that a negative certificate of origin must accompany the shipment.

Y's instruction to A regarding the negative certificate of origin is reportable by A. Moreover, A may designate B or any other person to report on its behalf. However, A remains liable for any failure to report or for any representations made on its behalf.

(xxxiv) U.S. exporter A, in shipping goods to boycotting country Y, receives a request from the customer in Y to state on the bill of lading that the vessel is allowed to enter Y's ports. The request further states that a certificate from the owner or master of the vessel to that effect is acceptable.

The request A received from his customer in Y is not reportable because it is a request of a type deemed to be not reportable by these regulations. (A may not make such a statement on the bill of lading himself, if he knows or has reason to know it is requested for a boycott purpose.)

(xxxv) U.S. exporter A, in shipping goods to boycotting country Y, receives a request from the customer in Y to furnish a certificate from the owner of the vessel that the vessel is permitted to call at Y's ports.

The request A received from his customer in Y is not reportable because it is a request of a type deemed to be not reportable by these regulations.

(xxxvi) U.S. exporter A, in shipping goods to boycotting country Y, receives a request from the customer in Y to furnish a certificate from the insurance company indicating that the company has a duly authorized representative in country Y and giving the name of that representative.

The request A received from his customer in Y is not reportable if it was received after the effective date of these rules, because it is a request of a type deemed to be not reportable by these regulations.

[61 FR 12862, Mar. 25, 1996, as amended at 65 FR 34948, June 1, 2000; 81 FR 70934, Oct. 14, 2016]

SUPPLEMENT NO. 1 TO PART 760—INTERPRETATIONS

It has come to the Department's attention that some U.S. persons are being or may be asked to comply with new boycotting country requirements with respect to shipping and insurance certifications and certificates of origin. It has also come to the Department's attention that some U.S. persons are being or may be asked to agree to new contractual provisions in connection with certain foreign government or foreign government agency contracts. In order to maximize its guidance with respect to section 8 of the Export Administration Act of 1979, as amended (50 U.S.C. app. 2407) and part 760 of the EAR, the Department hereby sets forth its views on these certifications and contractual clauses.[1]

I. CERTIFICATIONS

§760.2(d) of this part prohibits a U.S. person from furnishing or knowingly agreeing to furnish:

''Information concerning his or any other person's past, present or proposed business relationships:

(i) With or in a boycotted country;

(ii) With any business concern organized under the laws of a boycotted country;

(iii) With any national or resident of a boycotted country; or

(iv) With any other person who is known or believed to be restricted from having any business relationship with or in a boycotting country.''

This prohibition, like all others under part 760, applies only with respect to a U.S. person's activities in the interstate or foreign commerce of the United States and only when such activities are undertaken with intent to comply with, further, or support an unsanctioned foreign boycott. (§760.2(d)(5) of this part.)

This prohibition does not apply to the furnishing of normal business information in a commercial context. (§760.2(d)(3) of this part). Normal business information furnished in a commercial context does not cease to be such simply because the party soliciting the information may be a boycotting country or a national or resident thereof. If the information is of a type which is generally sought for a legitimate business purpose (such as determining financial fitness, technical competence, or professional experience), the information may be furnished even if the information could be used, or without the knowledge of the person supplying the information is intended to be used, for boycott purposes. (§760.2(d)(4) of this part).

[1] The Department originally issued this interpretation pursuant to the Export Administration Amendments Act of 1979 (Public Law 95–52) and the regulations on restrictive trade practices and boycotts (15 CFR part 369) published on January 25, 1978 (43 FR 3508) and contained in the 15 CFR edition revised as of January 1, 1979.

The new certification requirements and the Department's interpretation of the applicability of part 760 thereto are as follows:

A. *Certificate of origin.* A certificate of origin is to be issued by the supplier or exporting company and authenticated by the exporting country, attesting that the goods exported to the boycotting country are of purely indigenous origin, and stating the name of the factory or the manufacturing company. To the extent that the goods as described on the certificate of origin are not solely and exclusively products of their country of origin indicated thereon, a declaration must be appended to the certificate of origin giving the name of the supplier/manufacturer and declaring:

''The undersigned, _____, does hereby declare on behalf of the above-named supplier/manufacturer, that certain parts or components of the goods described in the attached certificate of origin are the products of such country or countries, other than the country named therein as specifically indicated hereunder:

Country of Origin and Percentage of Value of Parts or Components Relative to Total Shipment

1. _____
2. _____
3. _____

Dated: _____

Signature _____

Sworn to before me, this _____ day of _____, 20____. Notary Seal.''

INTERPRETATION

It is the Department's position that furnishing a positive certificate of origin, such as the one set out above, falls within the exception contained in §760.3(c) of this part for compliance with the import and shipping document requirements of a boycotting country. See §760.3(c) of this part and examples (i) and (ii) thereunder.

B. *Shipping certificate.* A certificate must be appended to the bill of lading stating: (1) Name of vessel; (2) Nationality of vessel; and (3) Owner of vessel, and declaring:

''The undersigned does hereby declare on behalf of the owner, master, or agent of the above-named vessel that said vessel is not registered in the boycotted country or owned by nationals or residents of the boycotted country and will not call at or pass through any boycotted country port enroute to its boycotting country destination.

''The undersigned further declares that said vessel is otherwise eligible to enter into the ports of the boycotting country in conformity with its laws and regulations.

Sworn to before me, this _____ day of _____, 20____. Notary Seal.''

INTERPRETATION

It is the Department's position that furnishing a certificate, such as the one set out above, stating: (1) The name of the vessel, (2) The nationality of the vessel, and (3) The owner of the vessel and further declaring that the vessel: (a) Is not registered in a boycotted country, (b) Is not owned by nationals or residents of a boycotted country, and (c) Will not call at or pass through a boycotted country port enroute to its destination in a boycotting country falls within the exception contained in §760.3(c) for compliance with the import and shipping document requirements of a boycotting country. See §760.3(c) and examples (vii), (viii), and (ix) thereunder.

It is also the Department's position that the owner, charterer, or master of a vessel may certify that the vessel is ''eligible'' or ''otherwise eligible'' to enter into the ports of a boycotting country in conformity with its laws and regulations. Furnishing such a statement pertaining to one's own eligibility offends no prohibition under this part 760. See §760.2(f), example (xiv).

On the other hand, where a boycott is in force, a declaration that a vessel is ''eligible'' or ''otherwise eligible'' to enter the ports of the boycotting country necessarily conveys the information that the vessel is not blacklisted or otherwise restricted from having a business relationship with the boycotting country. See §760.3(c) examples (vi), (xi), and (xii). Where a person other than the vessel's owner, charterer, or master furnishes such a statement, that is tantamount to his furnishing a statement that he is not doing business with a blacklisted person or is doing business only with non-blacklisted persons. Therefore, it is the Department's position that furnishing such a certification (which does not reflect customary international commercial practice) by anyone other than the owner, charterer, or master of a vessel would fall within the prohibition set forth in §760.2(d) unless it is clear from all the facts and circumstances that the certification is not required for a boycott reason. See §760.2(d)(3) and (4). See also part A., ''Permissible Furnishing of Information,'' of Supplement No. 5 to this part.

C. *Insurance certificate.* A certificate must be appended to the insurance policy stating: (1) Name of insurance company; (2) Address of its principal office; and (3) Country of its incorporation, and declaring:

''The undersigned, _____, does hereby certify on behalf of the above-named insurance company that the said company has a duly qualified and appointed agent or representative in the boycotting country whose name and address appear below:

Name of agent/representative and address in the boycotting country.

Sworn to before me this _____ day of _____, 20____. Notary Seal.''

INTERPRETATION

It is the Department's position that furnishing the name of the insurance company falls within the exception contained in §760.3(c) for compliance with the import and shipping document requirements of a boycotting country. See §760.3(c)(1)(v) and examples (v) and (x) thereunder. In addition, it is the Department's position that furnishing a certificate, such as the one set out above, stating the address of the insurance company's principal office and its country of incorporation offends no prohibition under this part 760 unless the U.S. person furnishing the certificate knows or has reason to know that the information is sought for the purpose of determining that the insurance company is neither headquartered nor incorporated in a boycotted country. See §760.2(d)(1)(i).

It is also the Department's position that the insurer, himself, may certify that he has a duly qualified and appointed agent or representative in the boycotting country and may furnish the name and address of his agent or representative. Furnishing such a statement pertaining to one's own status offends no prohibition under this part 760. See §760.2(f), example (xiv).

On the other hand, where a boycott is in force, a declaration that an insurer ''has a duly qualified and appointed agent or representative'' in the boycotting country necessarily conveys the information that the insurer is not blacklisted or otherwise restricted from having a business relationship with the boycotting country. See §760.3(c), example (v). Therefore, it is the Department's position that furnishing such a certification by anyone other than the insurer would fall within the prohibition set forth in §760.2(d) unless it is clear from all the facts and circumstances that the certification is not required for a boycott reason. See §760.2(d)(3) and (4).

II. CONTRACTUAL CLAUSES

The new contractual requirements and the Department's interpretation of the applicability of part 760 thereto are as follows:

A. *Contractual clause regarding import laws of boycotting country*. ''In connection with the performance of this contract the Contractor/Supplier acknowledges that the import and customs laws and regulations of the boycotting country shall apply to the furnishing and shipment of any products or components thereof to the boycotting country. The Contractor/Supplier specifically acknowledges that the aforementioned import and customs laws and regulations of the boycotting country prohibit, among other things, the importation into the boycotting country of products or components thereof: (1) Originating in the boycotted country; (2) Manufactured, produced, or furnished by companies organized under the laws of the boycotted country; and (3) Manufactured, produced, or furnished by nationals or residents of the boycotted country.''

INTERPRETATION

It is the Department's position that an agreement, such as the one set out in the first sentence above, that the import and customs requirements of a boycotting country shall apply to the performance of a contract does not, in and of itself, offend any prohibition under this part 760. See §760.2(a)(5) and example (iii) under ''Examples of Agreements To Refuse To Do Business.'' It is also the Department's position that an agreement to comply generally with the import and customs requirements of a boycotting country does not, in and of itself, offend any prohibition under this part 760. See §760.2(a)(5) and examples (iv) and (v) under ''Examples of Agreements To Refuse To Do Business.'' In addition, it is the Department's position that an agreement, such as the one set out in the second sentence above, to comply with the boycotting country's import and customs requirements prohibiting the importation of products or components: (1) Originating in the boycotted country; (2) Manufactured, produced, or furnished by companies organized under the laws of the boycotted country; or (3) Manufactured, produced, or furnished by nationals or residents of the boycotted country falls within the exception contained in §760.3(a) for compliance with the import requirements of a boycotting country. See §760.3(a) and example (ii) thereunder.

The Department notes that a United States person may not furnish a negative certification regarding the origin of goods or their components even though the certification is furnished in response to the import and shipping document requirements of the boycotting country. See §760.3(c) and examples (i) and (ii) thereunder, and §760.3(a) and example (ii) thereunder.

B. *Contractual clause regarding unilateral and specific selection*. ''The Government of the boycotting country (or the First Party), in its exclusive power, reserves its right to make the final unilateral and specific selection of any proposed carriers, insurers, suppliers of services to be performed within the boycotting country, or of specific goods to be furnished in accordance with the terms and conditions of this contract.''

INTERPRETATION

It is the Department's position that an agreement, such as the one set out above, falls within the exception contained in §760.3(d) of this part for compliance with unilateral selections. However, the Department

notes that whether a U.S. person may subsequently comply or agree to comply with any particular selection depends upon whether that selection meets all the requirements contained in §760.3(d) of this part for compliance with unilateral selections. For example, the particular selection must be unilateral and specific, particular goods must be specifically identifiable as to their source or origin at the time of their entry into the boycotting country, and all other requirements contained in §760.3(d) of this part must be observed.

[61 FR 12862, Mar. 25, 1996, as amended at 65 FR 34948, June 1, 2000; 78 FR 13470, Feb. 28, 2013]

SUPPLEMENT NO. 2 TO PART 760—INTERPRETATION

The Department hereby sets forth its views on whether the furnishing of certain shipping and insurance certificates in compliance with boycotting country requirements violates the provisions of section 8 of the Export Administration Act of 1979, as amended (50 U.S.C. app. 2407) and part 760 of the EAR,[1] as follows:

(i) ''The owner, charterer or master of a vessel may certify that the vessel is 'eligible' or 'otherwise eligible' to enter into the ports of a boycotting country in conformity with its laws and regulations;''

(ii) ''The insurer, himself, may certify that he has a duly qualified and appointed agent or representative in the boycotting country and may furnish the name and address of his agent or representative.''

Furnishing such certifications by anyone other than:

(i) The owner, charterer or master of a vessel, or

(ii) The insurer would fall within the prohibition set forth in §760.2(d) of this part, ''unless it is clear from all the facts and circumstances that these certifications are not required for a boycott reason.'' See §760.2(d)(3) and (4) of this part.

The Department has received from the Kingdom of Saudi Arabia a clarification that the shipping and insurance certifications are required by Saudi Arabia in order to:

(i) Demonstrate that there are no applicable restrictions under Saudi laws or regulations pertaining to maritime matters such as the age of the ship, the condition of the ship, and similar matters that would bar entry of the vessel into Saudi ports; and

(ii) Facilitate dealings with insurers by Saudi Arabian importers whose ability to secure expeditious payments in the event of damage to insured goods may be adversely affected by the absence of a qualified agent or representative of the insurer in Saudi Arabia. In the Department's judgment, this clarification constitutes sufficient facts and circumstances to demonstrate that the certifications are not required by Saudi Arabia for boycott reasons.

On the basis of this clarification, it is the Department's position that any United States person may furnish such shipping and insurance certificates required by Saudi Arabia without violating §760.2(d) of this part. Moreover, under these circumstances, receipts of requests for such shipping and insurance certificates from Saudi Arabia are not reportable.

It is still the Department's position that furnishing such a certificate pertaining to one's own eligibility offends no prohibition under part 760. See §760.2(f) of this part, example (xiv). However, absent facts and circumstances clearly indicating that the certifications are required for ordinary commercial reasons as demonstrated by the Saudi clarification, furnishing certifications about the eligibility or blacklist status of any other person would fall within the prohibition set forth in §760.2(d) of this part, and receipts of requests for such certifications are reportable.

It also remains the Department's position that where a United States person asks an insurer or carrier of the exporter's goods to self-certify, such request offends no prohibition under this part. However, where a United States person asks anyone other than an insurer or carrier of the exporter's goods to self-certify, such requests will be considered by the Department as evidence of the requesting person's refusal to do business with those persons who cannot or will not furnish such a self-certification. For example, if an exporter-beneficiary of a letter of credit asks his component suppliers to self-certify, such a request will be considered as evidence of his refusal to do business with those component suppliers who cannot or will not furnish such a self-certification.

The Department wishes to emphasize that notwithstanding the fact that self-certifications are permissible, it will closely scrutinize the activities of all United States persons who provide such self-certifications, including insurers and carriers, to determine that such persons have not taken any prohibited actions or entered into any prohibited agreements in order to be able to furnish such certifications.

[61 FR 12862, Mar. 25, 1996, as amended at 65 FR 34949, June 1, 2000]

[1] The Department originally issued this interpretation on April 21, 1978 (43 FR 16969) pursuant to the Export Administration Amendments Act of 1977 (Public Law 95–52) and the regulations on restrictive trade practices and boycotts (15 CFR part 369) published on January 25, 1978 (43 FR 3508) and contained in the 15 CFR edition revised as of January 1, 1979.

SUPPLEMENT NO. 3 TO PART 760—INTERPRETATION

Pursuant to Article 2, Annex II of the Peace Treaty between Egypt and Israel, Egypt's participation in the Arab economic boycott of Israel was formally terminated on January 25, 1980. On the basis of this action, it is the Department's position that certain requests for information, action or agreement which were considered boycott-related by implication now cannot be presumed boycott-related and thus would not be prohibited or reportable under the Regulations. For example, a request that an exporter certify that the vessel on which it is shipping its goods is eligible to enter Arab Republic of Egypt ports has been considered a boycott-related request that the exporter could not comply with because Egypt has a boycott in force against Israel (see 43 FR 16969, April 21, 1978 or the 15 CFR edition revised as of January 1, 1979). Such a request after January 25, 1980 would not be presumed boycott-related because the underlying boycott requirement/basis for the certification has been eliminated. Similarly, a U.S. company would not be prohibited from complying with a request received from Egyptian government officials to furnish the place of birth of employees the company is seeking to take to Egypt, because there is no underlying boycott law or policy that would give rise to a presumption that the request was boycott-related.

U.S. persons are reminded that requests that are on their face boycott-related or that are for action obviously in furtherance or support of an unsanctioned foreign boycott are subject to the Regulations, irrespective of the country or origin. For example, requests containing references to ''blacklisted companies'', ''Israel boycott list'', ''non-Israeli goods'' or other phrases or words indicating boycott purpose would be subject to the appropriate provisions of the Department's antiboycott regulations.

SUPPLEMENT NO. 4 TO PART 760—INTERPRETATION

The question has arisen how the definition of U.S. commerce in the antiboycott regulations (15 CFR part 760) applies to a shipment of foreign-made goods when U.S.-origin spare parts are included in the shipment. Specifically, if the shipment of foreign goods falls outside the definition of U.S. commerce, will the inclusion of U.S.-origin spare parts bring the entire transaction into U.S. commerce?

Section 760.1(d)(12) provides the general guidelines for determining when U.S.-origin goods shipped from a controlled in fact foreign subsidiary are outside U.S. commerce. The two key tests of that provision are that the goods were ''(i) * * * acquired without reference to a specific order from or transaction with a person outside the United States; and (ii) * * * further manufactured, incorporated into, refined into, or reprocessed into another product.'' Because the application of these two tests to spare parts does not conclusively answer the U.S. commerce question, the Department is presenting this clarification.

In the cases brought to the Department's attention, an order for foreign-origin goods was placed with a controlled in fact foreign subsidiary of a United States company. The foreign goods contained components manufactured in the United States and in other countries, and the order included a request for extras of the U.S. manufactured components (spare parts) to allow the customer to repair the item. Both the foreign manufactured product and the U.S. spare parts were to be shipped from the general inventory of the foreign subsidiary. Since the spare parts, if shipped by themselves, would be in U.S. commerce as that term is defined in the Regulations, the question was whether including them with the foreign manufactured item would bring the entire shipment into U.S. commerce. The Department has decided that it will not and presents the following specific guidance.

As used above, the term ''spare parts'' refers to parts of the quantities and types normally and customarily ordered with a product and kept on hand in the event they are needed to assure prompt repair of the product. Parts, components or accessories that improve or change the basic operations or design characteristics, for example, as to accuracy, capability or productivity, are not spare parts under this definition.

Inclusion of U.S.-origin spare parts in a shipment of products which is otherwise outside U.S. commerce will not bring the transaction into U.S. commerce if the following conditions are met:

(I) The parts included in the shipment are acquired from the United States by the controlled in fact foreign subsidiary without reference to a specific order from or transaction with a person outside the United States;

(II) The parts are identical to the corresponding United States-origin parts which have been manufactured, incorporated into or reprocessed into the completed product;

(III) The parts are of the quantity and type normally and customarily ordered with the completed product and kept on hand by the firm or industry of which the firm is a part to assure prompt repair of the product; and

(IV) The parts are covered by the same order as the completed product and are shipped with or at the same time as the original product.

The Department emphasizes that unless each of the above conditions is met, the inclusion of United States-origin spare parts in

an order for a foreign-manufactured or assembled product will bring the entire transaction into the interstate or foreign commerce of the United States for purposes of part 760.

[61 FR 12862, Mar. 25, 1996, as amended at 65 FR 34949, June 1, 2000]

SUPPLEMENT NO. 5 TO PART 760—INTERPRETATION

A. Permissible Furnishing of Information

The information outlined below may be furnished in response to boycott-related requests from boycotting countries or others. This information is, in the view of the Department, not prohibited by the Regulations. Thus, a person does not have to qualify under any of the exceptions to be able to make the following statements. Such statements can be made, however, only by the person indicated and under the circumstances described. These statements should not be used as a point of departure or analogy for determining the permissibility of other types of statements. The Department's view that these statements are not contrary to the prohibitions contained in antiboycott provisions of the Regulations is limited to the specific statement in the specific context indicated.

1. A U.S. person may always provide its own name, address, place of incorporation (''nationality''), and nature of business.

2. A U.S. person may state that it is not on a blacklist, or restricted from doing business in a boycotting country. A company may not make that statement about its subsidiaries or affiliates—only about itself. A U.S. person may not say that there is no reason for it to be blacklisted. To make that statement would provide directly or by implication information that may not be provided. A U.S. person may inquire about the reasons it is blacklisted if it learns that it is on a blacklist (see §760.2(d) of this part example (xv)).

3. A U.S. person may describe in detail its past dealings with boycotting countries; may state in which boycotting countries its trademarks are registered; and may specify in which boycotting countries it is registered or qualified to do business. In general, a U.S. person is free to furnish any information it wishes about the nature and extent of its commercial dealings with boycotting countries.

4. A U.S. person may state that many U.S. firms or individuals have similar names and that it believes that it may be confused with a similarly named entity. A U.S. person may not state that it does or does not have an affiliation or relationship with such similarly named entity.

5. A U.S. person may state that the information requested is a matter of public record in the United States. However, the person may not direct the inquirer to the location of that information, nor may the U.S. person provide or cause to be provided such information.

B. Availability of the Compliance With Local Law Exception To Establish a Foreign Branch

Section 760.3(g), the Compliance With Local Law exception, permits U.S. persons, who are bona fide residents of a boycotting country, to take certain limited, but otherwise prohibited, actions, if they are required to do so in order to comply with local law.

Among these actions is the furnishing of non-discriminatory information. Examples (iv) through (vi) under ''Examples of Bona Fide Residency'' indicate that a company seeking to become a bona fide resident within a boycotting country may take advantage of the exception for the limited purpose of furnishing information required by local law to obtain resident status. Exactly when and how this exception is available has been the subject of a number of inquiries. It is the Department's view that the following conditions must be met for a non-resident company to be permitted to furnish otherwise prohibited information for the limited purpose of seeking to become a bona fide resident:

1. The company must have a legitimate business reason for seeking to establish a branch or other resident operation in the boycotting country. (Removal from the blacklist does not constitute such a reason.)

2. The local operation it seeks to establish must be similar or comparable in nature and operation to ones the company operates in other parts of the world, unless local law or custom dictates a significantly different form.

3. The person who visits the boycotting country to furnish the information must be the official whose responsibility ordinarily includes the creation and registration of foreign operations (i.e., the chairman of the board cannot be flown in to answer boycott questions unless the chairman of the board is the corporate official who ordinarily goes into a country to handle foreign registrations).

4. The information provided must be that which is ordinarily known to the person establishing the foreign branch. Obviously, at the time of establishment, the foreign branch will have no information of its own knowledge. Rather, the information should be that which the responsible person has of his own knowledge, or that he would have with him as incidental and necessary to the registration and establishment process. As a general rule, such information would not include such things as copies of agreements with boycotted country concerns or detailed information about the person's dealings with blacklisted concerns.

5. It is not necessary that documents prepared in compliance with this exception be drafted or executed within the boycotting country. The restrictions on the type of information which may be provided and on who may provide it apply regardless of where the papers are prepared or signed.

[61 FR 12862, Mar. 25, 1996, as amended at 65 FR 34949, June 1, 2000]

SUPPLEMENT NO. 6 TO PART 760—INTERPRETATION

The antiboycott regulations prohibit knowing agreements to comply with certain prohibited requests and requirements of boycotting countries, regardless of how these terms are stated. Similarly, the reporting rules require that a boycott related ''solicitation, directive, legend or instruction that asks for information or that asks that a United States person take or refrain from taking a particular action'' be reported. Questions have frequently arisen about how particular requirements in the form of directive or instructions are viewed under the antiboycott regulations, and we believe that it will add clarity to the regulations to provide a written interpretation of how three of these terms are treated under the law. The terms in question appear frequently in letters of credit, but may also be found on purchase orders or other shipping or sale documents. They have been brought to the attention of the Department by numerous persons. The terms are, or are similar to, the following: (1) Goods of boycotted country origin are prohibited; (2) No six-pointed stars may be used on the goods, packing or cases; (3) Neither goods nor packing shall bear any symbols prohibited in the boycotting country.

(a) *Goods of boycotted country origin prohibited*. This term is very common in letters of credit from Kuwait and may also appear from time-to-time in invitations to bid, contracts, or other trade documents. It imposes a condition or requirement compliance with which is prohibited, but permitted by an exception under the Regulations (see §760.2(a) and §760.3(a)). It is reportable by those parties to the letter of credit or other transaction that are required to take or refrain from taking some boycott related action by the request. Thus the bank must report the request because it is a term or condition of the letter of credit that it is handling, and the exporter-beneficiary must report the request because the exporter determines the origin of the goods. The freight forwarder does not have to report this request because the forwarder has no role or obligation in selecting the goods. However, the freight forwarder would have to report a request to furnish a certificate that the goods do not originate in or contain components from a boycotted country. See §760.5, examples (xii)–(xvii).

(b) *No six-pointed stars may be used on the goods, packing or cases*. This term appears from time-to-time on documents from a variety of countries. The Department has taken the position that the six-pointed star is a religious symbol. See §760.2(b), example (viii) of this part. Agreeing to this term is prohibited by the Regulations and not excepted because it constitutes an agreement to furnish information about the religion of a U.S. person. See §760.2(c) of this part. If a person proceeds with a transaction in which this is a condition at any stage of the transaction, that person has agreed to the condition in violation of the Regulations. It is not enough to ignore the condition. Exception must affirmatively be taken to this term or it must be stricken from the documents of the transaction. It is reportable by all parties to the transaction that are restricted by it. For example, unlike the situation described in (a) above, the freight forwarder would have to report this request because his role in the transaction would involve preparation of the packing and cases. The bank and exporter would both have to report, of course, if it were a term in a letter of credit. Each party would be obligated affirmatively to seek an amendment or deletion of the term.

(c) *Neither goods nor packaging shall bear any symbols prohibited in the boycotting country*. This term appears from time-to-time in letters of credit and shipping documents from Saudi Arabia. In our view, it is neither prohibited, nor reportable because it is not boycott-related. There is a wide range of symbols that are prohibited in Saudi Arabia for a variety of reasons, many having to do with that nation's cultural and religious beliefs. On this basis, we do not interpret the term to be boycott related. See §760.2(a)(5) and §760.5(a)(5)(v) of this part.

[61 FR 12862, Mar. 25, 1996, as amended at 65 FR 34949, June 1, 2000]

SUPPLEMENT NO. 7 TO PART 760—INTERPRETATION

Prohibited Refusal To Do Business

When a boycotting country rejects for boycott-related reasons a shipment of goods sold by a United States person, the United States person selling the goods may return them to its inventory or may re-ship them to other markets (the United States person may not return them to the original supplier and demand restitution). The U.S. person may then make a non-boycott based selection of another supplier and provide the goods necessary to meet its obligations to the boycotting customer in that particular transaction without violating §760.2(a) of this

part. If the United States person receives another order from the same boycotting country for similar goods, the Department has determined that a boycott-based refusal by a United States person to ship goods from the supplier whose goods were previously rejected would constitute a prohibited refusal to do business under §760.2(a) of this part. The Department will presume that filling such an order with alternative goods is evidence of the person's refusal to deal with the original supplier.

The Department recognizes the limitations this places on future transactions with a boycotting country once a shipment of goods has been rejected. Because of this, the Department wishes to point out that, when faced with a boycotting country's refusal to permit entry of the particular goods, a United States person may state its obligation to abide by the requirements of United States law and indicate its readiness to comply with the unilateral and specific selection of goods by the boycotting country in accordance with §760.3(d). That section provides, in pertinent part, as follows:

''A United States person may comply or agree to comply in the normal course of business with the unilateral and specific selection by a boycotting country * * * of * * * specific goods, * * * provided that * * * with respect to goods, the items, in the normal course of business, are identifiable as to their source or origin at the time of their entry into the boycotting country by (a) uniqueness of design or appearance or (b) trademark, trade name, or other identification normally on the items themselves, including their packaging.''

The United States person may also provide certain services in advance of the unilateral selection by the boycotting country, such as the compilation of lists of qualified suppliers, so long as such services are customary to the type of business the United States person is engaged in, and the services rendered are completely non-exclusionary in character (i.e., the list of qualified suppliers would have to include the supplier whose goods had previously been rejected by the boycotting country, if they were fully qualified). See §760.2(a)(6) of this part for a discussion of the requirements for the provision of these services.

The Department wishes to emphasize that the unilateral selection exception in §760.3(d) of this part will be construed narrowly, and that all its requirements and conditions must be met, including the following:

—Discretion for the selection must be exercised by a boycotting country; or by a national or resident of a boycotting country;
—The selection must be stated in the affirmative specifying a particular supplier of goods;
—While a permissible selection may be boycott based, if the United States person knows or has reason to know that the purpose of the selection is to effect discrimination against any United States person on the basis of race, religion, sex, or national origin, the person may not comply under any circumstances.

The Department cautions United States persons confronted with the problem or concern over the boycott-based rejection of goods shipped to a boycotting country that the adoption of devices such as ''risk of loss'' clauses, or conditions that make the supplier financially liable if his or her goods are rejected by the boycotting country for boycott reasons are presumed by the Department to be evasion of the statute and regulations, and as such are prohibited by §760.4 of this part, unless adopted prior to January 18, 1978. See §760.4(d) of this part.

[61 FR 12862, Mar. 25, 1996, as amended at 65 FR 34949, June 1, 2000]

SUPPLEMENT NO. 8 TO PART 760—INTERPRETATION

Definition of Interstate or Foreign Commerce of the United States

When United States persons (as defined by the antiboycott regulations) located within the United States purchase or sell goods or services located outside the United States, they have engaged in an activity within the foreign commerce of the United States. Although the goods or services may never physically come within the geographic boundaries of the several states or territories of the United States, legal ownership or title is transferred from a foreign nation to the United States person who is located in the United States. In the case of a purchase, subsequent resale would also be within United States commerce.

It is the Department's view that the terms ''sale'' and ''purchase'' as used in the regulations are not limited to those circumstances where the goods or services are physically transferred to the person who acquires title. The EAR define the activities that serve as the transactional basis for U.S. commerce as those involving the ''sale, purchase, or transfer'' of goods or services. In the Department's view, as used in the antiboycott regulations, ''transfer'' contemplates physical movement of the goods or services between the several states or territories and a foreign country, while ''sale'' and ''purchase'' relate to the movement of ownership or title.

This interpretation applies only to those circumstances in which the person located within the United States buys or sells goods or services for its own account. Where the United States person is engaged in the brokerage of foreign goods, i.e., bringing foreign buyers and sellers together and assisting in

the transfer of the goods, the sale or purchase itself would not ordinarily be considered to be within U.S. commerce. The brokerage service, however, would be a service provided from the United States to the parties and thus an activity within U.S. commerce and subject to the antiboycott laws. See §760.1(d)(3).

The Department cautions that United States persons who alter their normal pattern of dealing to eliminate the passage of ownership of the goods or services to or from the several states or territories of the United States in order to avoid the application of the antiboycott regulations would be in violation of §760.4 of this part.

[61 FR 12862, Mar. 25, 1996, as amended at 65 FR 34950, June 1, 2000]

SUPPLEMENT NO. 9 TO PART 760—INTERPRETATION

Activities Exclusively Within a Boycotting Country—Furnishing Information

§760.3(h) of this part provides that a United States person who is a bona fide resident of a boycotting country may comply with the laws of that country with respect to his or her activities exclusively within the boycotting country. Among the types of conduct permitted by this exception is ''furnishing information within the host country'' §760.3(h)(1)(v) of this part. For purposes of the discussion which follows, the Department is assuming that the person in question is a bona fide resident of the boycotting country as defined in §760.3(g), and that the information to be provided is required by the laws or regulations of the boycotting country, as also defined in §760.3(g) of this part. The only issue this interpretation addresses is under what circumstances the provision of information is ''an activity exclusively within the boycotting country.''

The activity of ''furnishing information'' consists of two parts, the acquisition of the information and its subsequent transmittal. Under the terms of this exception, the information may not be acquired outside the country for the purpose of responding to the requirement for information imposed by the boycotting country. Thus, if an American company which is a bona fide resident of a boycotting country is required to provide information about its dealings with other U.S. firms, the company may not ask its parent corporation in the United States for that information, or make any other inquiry outside the boundaries of the boycotting country. The information must be provided to the boycotting country authorities based on information or knowledge available to the company and its personnel located within the boycotting country at the time the inquiry is received. See §760.3, (h) of this part, examples (iii), (iv), and (v). Much of the information in the company's possession (transaction and corporate records) may have actually originated outside the boycotting country, and much of the information known to the employees may have been acquired outside the boycotting country. This will not cause the information to fall outside the coverage of this exception, if the information was sent to the boycotting country or acquired by the individuals in normal commercial context prior to and unrelated to a boycott inquiry or purpose. It should be noted that if prohibited information (about business relations with a boycotted country, for example) has been forwarded to the affiliate in the boycotting country in anticipation of a possible boycott inquiry from the boycotting country government, the Department will not regard this as information within the knowledge of the bona fide resident under the terms of the exception. However, if the bona fide resident possesses the information prior to receipt of a boycott-related inquiry and obtained it in a normal commercial context, the information can be provided pursuant to this exception notwithstanding the fact that, at some point, the information came into the boycotting country from the outside.

The second part of the analysis of ''furnishing information'' deals with the limitation on the transmittal of the information. It can only be provided within the boundaries of the boycotting country. The bona fide resident may only provide the information to the party that the boycotting country law requires (directly or through an agent or representative within the country) so long as that party is located within the boycotting country. This application of the exception is somewhat easier, since it is relatively simple to determine if the information is to be given to somebody within the country.

Note that in discussing what constitutes furnishing information ''exclusively within'' the boycotting country, the Department does not address the nature of the transaction or activity that the information relates to. It is the Department's position that the nature of the transaction, including the inception or completion of the transaction, is not material in analyzing the availability of this exception.

For example, if a shipment of goods imported into a boycotting country is held up at the time of entry, and information from the bona fide resident within that country is legally required to free those goods, the fact that the information may relate to a transaction that began outside the boycotting country is not material. The availability of the exception will be judged based on the activity of the bona fide resident within the

country. If the resident provides that information of his or her own knowledge, and provides it to appropriate parties located exclusively within the country, the exception permits the information to be furnished.

Factual variations may raise questions about the application of this exception and the effect of this interpretation. In an effort to anticipate some of these, the Department has set forth below a number of questions and answers. They are incorporated as a part of this interpretation.

1. Q. Under this exception, can a company which is a U.S. person and a bona fide resident of the boycotting country provide information to the local boycott office?

A. Yes, if local law requires the company to provide this information to the boycott office and all the other requirements are met.

2. Q. If the company knows that the local boycott office will forward the information to the Central Boycott Office, may it still provide the information to the local boycott office?

A. Yes, if it is required by local law to furnish the information to the local boycott office and all the other requirements are met. The company has no control over what happens to the information after it is provided to the proper authorities. (There is obvious potential for evasion here, and the Department will examine such occurrences closely.)

3. Q. Can a U.S. person who is a bona fide resident of Syria furnish information to the Central Boycott Office in Damascus?

A. No, unless the law in Syria specifically requires information to be provided to the Central Boycott Office the exception will not apply. Syria has a local boycott office responsible for enforcing the boycott in that country.

4. Q. If a company which is a U.S. person and a bona fide resident of the boycotting country has an import shipment held up in customs of the boycotting country, and is required to provide information about the shipment to get it out of customs, may the company do so?

A. Yes, assuming all other requirements are met. The act of furnishing the information is the activity taking place exclusively within the boycotting country. The fact that the information is provided corollary to a transaction that originates or terminates outside the boycotting country is not material.

5. Q. If the U.S. person and bona fide resident of the boycotting country is shipping goods out of the boycotting country, and is required to certify to customs officials of the country at the time of export that the goods are not of Israeli origin, may he do so even though the certification relates to an export transaction?

A. Yes, assuming all other requirements are met. See number 4 above.

[61 FR 12862, Mar. 25, 1996, as amended at 65 FR 34950, June 1, 2000]

SUPPLEMENT NO. 10 TO PART 760—INTERPRETATION

(a) The words ''Persian Gulf'' cannot appear on the document.

This term is common in letters of credit from Kuwait and may be found in letters of credit from Bahrain. Although more commonly appearing in letters of credit, the term may also appear in other trade documents.

It is the Department's view that this term reflects a historical dispute between the Arabs and the Iranians over geographic place names which in no way relates to existing economic boycotts. Thus, the term is neither prohibited nor reportable under the Regulations.

(b) Certify that goods are of U.S.A. origin and *contain no foreign parts.*

This term appears periodically on documents from a number of Arab countries. It is the Department's position that the statement is a positive certification of origin and, as such, falls within the exception contained in §760.3(c) of this part for compliance with the import and shipping document requirements of a boycotting country. Even though a negative phrase is contained within the positive clause, the phrase is a non-exclusionary, non-blacklisting statement. In the Department's view, the additional phrase does not affect the permissible status of the positive certificate, nor does it make the request reportable §760.5(a)(5)(iii) of this part.

(c) Legalization of documents by any Arab consulate except Egyptian Consulate permitted.

This term appears from time to time in letters of credit but also may appear in various other trade documents requiring legalization and thus is not prohibited, and a request to comply with the statement is not reportable. Because a number of Arab states do not have formal diplomatic relations with Egypt, they do not recognize Egyptian embassy actions. The absence of diplomatic relations is the reason for the requirement. In the Department's view this does not constitute an unsanctioned foreign boycott or embargo against Egypt under the terms of the Export Administration Act. Thus the term is not prohibited, and a request to comply with the statement is not reportable.

[61 FR 12862, Mar. 25, 1996, as amended at 65 FR 34950, June 1, 2000]

SUPPLEMENT NO. 11 TO PART 760—INTERPRETATION

Definition of Unsolicited Invitation To Bid

§ 760.5(a)(4) of this part states in part:

''In addition, a United States person who receives an unsolicited invitation to bid, or similar proposal, containing a boycott request has not received a reportable request for purposes of this section where he does not respond to the invitation to bid or other proposal.''

The Regulations do not define ''unsolicited'' in this context. Based on review of numerous situations, the Department has developed certain criteria that it applies in determining if an invitation to bid or other proposal received by a U.S. person is in fact unsolicited.

The invitation is not unsolicited if, during a commercially reasonable period of time preceding the issuance of the invitation, a representative of the U.S. person contacted the company or agency involved for the purpose of promoting business on behalf of the company.

The invitation is not unsolicited if the U.S. person has advertised the product or line of products that are the subject of the invitation in periodicals or publications that ordinarily circulate to the country issuing the invitation during a commercially reasonable period of time preceding the issuance of the invitation.

The invitation is not unsolicited if the U.S. person has sold the same or similar products to the company or agency issuing the invitation within a commercially reasonable period of time before the issuance of the current invitation.

The invitation is not unsolicited if the U.S. person has participated in a trade mission to or trade fair in the country issuing the invitation within a commercially reasonable period of time before the issuance of the invitation.

Under § 760.5(a)(4) of this part, the invitation is regarded as not reportable if the U.S. person receiving it does not respond. The Department has determined that a simple acknowledgment of the invitation does not constitute a response for purposes of this rule. However, an acknowledgment that requests inclusion for future invitations will be considered a response, and a report is required.

Where the person in receipt of an invitation containing a boycott term or condition is undecided about a response by the time a report would be required to be filed under the regulations, it is the Department's view that the person must file a report as called for in the Regulations. The person filing the report may indicate at the time of filing that he has not made a decision on the boycott request but must file a supplemental report as called for in the regulations at the time a decision is made (§ 760.5(b)(6)).

[61 FR 12862, Mar. 25, 1996, as amended at 65 FR 34950, June 1, 2000]

SUPPLEMENT NO. 12 TO PART 760—INTERPRETATION

The Department has taken the position that a U.S. person as defined by § 760.1(b) of this part may not make use of an agent to furnish information that the U.S. person is prohibited from furnishing pursuant to § 760.2(d) of this part.

Example (v) under § 760.4 of this part (Evasion) provides:

''A, a U.S. company, is negotiating a long-term contract with boycotting country Y to meet all of Y's medical supply needs. Y informs A that before such a contract can be concluded, A must complete Y's boycott questionnaire. A knows that it is prohibited from answering the questionnaire so it arranges for a local agent in Y to supply the necessary information.''

''A's action constitutes evasion of this part, because it is a device to mask prohibited activity carried out on A's behalf.''

This interpretation deals with the application of the Regulations to a commercial agent registration requirement imposed by the government of Saudi Arabia. The requirement provides that nationals of Saudi Arabia seeking to register in Saudi Arabia as commercial agents or representatives of foreign concerns must furnish certain boycott-related information about the foreign concern prior to obtaining approval of the registration.

The requirement has been imposed by the Ministry of Commerce of Saudi Arabia, which is the government agency responsible for regulation of commercial agents and foreign commercial registrations. The Ministry requires the agent or representative to state the following:

''Declaration: I, the undersigned, hereby declare, in my capacity as (blank) that (name and address of foreign principal) is not presently on the blacklist of the Office for the Boycott of Israel and that it and all its branches, if any, are bound by the decisions issued by the Boycott Office and do not (1) participate in the capital of, (2) license the manufacture of any products or grant trademarks or tradeware license to, (3) give experience or technical advice to, or (4) have any other relationship with other companies which are prohibited to be dealt with by the Boycott Office. Signed (name of commercial agent/representative/distributor).''

It is the Department's view that under the circumstances specifically outlined in this interpretation relating to the nature of the requirement, a U.S. person will not be held responsible for a violation of this part when

such statements are provided by its commercial agent or representative, even when such statements are made with the full knowledge of the U.S. person.

Nature of the requirement. For a boycott-related commercial registration requirement to fall within the coverage of this interpretation it must have the following characteristics:

1. The requirement for information imposed by the boycotting country applies to a national or other subject of the boycotting country qualified under the local laws of that country to function as a commercial representative within that country;

2. The registration requirement relates to the registration of the commercial agent's or representative's authority to sell or distribute goods within the boycotting country acquired from the foreign concern;

3. The requirement is a routine part of the registration process and is not applied selectively based on boycott-related criteria;

4. The requirement applies only to a commercial agent or representative in the boycotting country and does not apply to the foreign concern itself; and

5. The requirement is imposed by the agency of the boycotting country responsible for regulating commercial agencies.

The U.S. person whose agent is complying with the registration requirement continues to be subject to all the terms of the Regulations, and may not provide any prohibited information to the agent for purposes of the agent's compliance with the requirement.

In addition, the authority granted to the commercial agent or representative by the U.S. person must be consistent with standard commercial practices and not involve any grants of authority beyond those incidental to the commercial sales and distributorship responsibilities of the agent.

Because the requirement does not apply to the U.S. person, no reporting obligation under §760.5 of this part would arise.

This interpretation, like all others issued by the Department discussing applications of the antiboycott provisions of the Export Administration Regulations, should be read narrowly. Circumstances that differ in any material way from those discussed in this notice will be considered under the applicable provisions of the Regulations. Persons are particularly advised not to seek to apply this interpretation to circumstances in which U.S. principals seek to use agents to deal with boycott-related or potential blacklisting situations.

[61 FR 12862, Mar. 25, 1996, as amended at 65 FR 34950, June 1, 2000]

SUPPLEMENT NO. 13 TO PART 760—INTERPRETATION

SUMMARY

This interpretation considers boycott-based contractual language dealing with the selection of suppliers and subcontractors. While this language borrows terms from the ''unilateral and specific selection'' exception contained in §760.3(d), it fails to meet the requirements of that exception. Compliance with the requirements of the language constitutes a violation of the regulatory prohibition of boycott-based refusals to do business.

REGULATORY BACKGROUND

Section 760.2(a) of this part prohibits U.S. persons from refusing or knowingly agreeing to refuse to do business with other persons when such refusal is pursuant to an agreement with, requirement of, or request of a boycotting country. That prohibition does not extend to the performance of management, procurement or other pre-award services, however, notwithstanding knowledge that the ultimate selection may be boycott-based. To be permissible such services: (1) Must be customary for the firm or industry involved and (2) must not exclude others from the transaction or involve other actions based on the boycott. See §760.2(a)(6) of this part, ''Refusals to Do Business'', and example (xiii).

A specific exception is also made in the Regulations for compliance (and agreements to comply) with a unilateral and specific selection of suppliers or subcontractors by a boycotting country buyer. See §760.3(d) of this part. In supplement no. 1 to part 760, the following form of contractual language was said to fall within that exception for compliance with unilateral and specific selection:

''The Government of the boycotting country (or the First Party), in its exclusive power, reserves its right to make the final unilateral and specific selection of any proposed carriers, insurers, suppliers of services to be performed within the boycotting country, or of specific goods to be furnished in accordance with the terms and conditions of this contract.''

The Department noted that the actual steps necessary to comply with any selection made under this agreement would also have to meet the requirements of §760.3(d) to claim the benefit of that exception. In other words, the discretion in selecting would have to be exercised exclusively by the boycotting country customer and the selection would have to be stated in the affirmative, naming a particular supplier. See §760.3(d) (4) and (5) of this part.

ANALYSIS OF ADDITIONAL CONTRACTUAL LANGUAGE

The Office of Antiboycott Compliance has learned of the introduction of a contractual clause into tender documents issued by boycotting country governments. This clause is, in many respects, similar to that dealt with in supplement no. 1 to part 760, but several critical differences exist.

The clause states:

BOYCOTT OF [NAME OF BOYCOTTED COUNTRY]

In connection with the performance of this Agreement, Contractor acknowledges that the import and customs laws and regulations of boycotting country apply to the furnishing and shipment of any products or components thereof to boycotting country. The Contractor specifically acknowledges that the aforementioned import and customs laws and regulations of boycotting country prohibit, among other things, the importation into boycotting country of products or components thereof: (A) Originating in boycotted country; (B) Manufactured, produced and furnish by companies organized under the laws of boycotted country; and (C) Manufactured, produced or furnished by Nationals or Residents of boycotted country.

The Government, in its exclusive power, reserves its right to make the final unilateral and specific selection of any proposed Carriers, Insurers, Suppliers of Services to be performed within boycotting country or of specific goods to be furnished in accordance with the terms and conditions of this Contract.

To assist the Government in exercising its right under the preceding paragraph, Contractor further agrees to provide a complete list of names and addresses of all his Sub-Contractors, Suppliers, Vendors and Consultants and any other suppliers of the service for the project.

The title of this clause makes clear that its provisions are intended to be boycott-related. The first paragraph acknowledges the applicability of certain boycott-related requirements of the boycotting country's laws in language reviewed in part 760, supplement no. 1, Part II.B. and found to constitute a permissible agreement under the exception contained in §760.3(a) of this part for compliance with the import requirements of a boycotting country. The second and third paragraphs together deal with the procedure for selecting subcontractors and suppliers of services and goods and, in the context of the clause as a whole, must be regarded as motivated by boycott considerations and intended to enable the boycotting country government to make boycott-based selections, including the elimination of blacklisted subcontractors and suppliers.

The question is whether the incorporation into these paragraphs of some language from the ''unilateral and specific selection'' clause approved in supplement no. 1 to part 760 suffices to take the language outside §760.2(a) of this part's prohibition on boycott-based agreements to refuse to do business. While the first sentence of this clause is consistent with the language discussed in supplement no. 1 to part 760, the second sentence significantly alters the effect of this clause. The effect is to draw the contractor into the decision-making process, thereby destroying the unilateral character of the selection by the buyer. By agreeing to submit the names of the suppliers it plans to use, the contractor is agreeing to give the boycotting country buyer, who has retained the right of final selection, the ability to reject, for boycott-related reasons, any supplier the contractor has already chosen. Because the requirement appears in the contractual provision dealing with the boycott, the buyer's rejection of any supplier whose name is given to the buyer pursuant to this provision would be presumed to be boycott-based. By signing the contract, and thereby agreeing to comply with all of its provisions, the contractor must either accept the buyer's rejection of any supplier, which is presumed to be boycott-based because of the context of this provision, or breach the contract.

In these circumstances, the contractor's method of choosing its subcontractors and suppliers, in anticipation of the buyer's boycott-based review, cannot be considered a permissible pre-award service because of the presumed intrusion of boycott-based criteria into the selection process. Thus, assuming all other jurisdictional requirements necessary to establish a violation of part 760 are met, the signing of the contract by the contractor constitutes a violation of §760.2(a) of this part because he is agreeing to refuse to do business for boycott reasons.

The apparent attempt to bring this language within the exception for compliance with unilateral and specific selections is ineffective. The language does not place the discretion to choose suppliers in the hands of the boycotting country buyer but divides this discretion between the buyer and his principal contractor. Knowing that the buyer will not accept a boycotted company as supplier or subcontractor, the contractor is asked to use his discretion in selecting a single supplier or subcontractor for each element of the contract. The boycotting country buyer exercises discretion only through accepting or rejecting the selected supplier or contractor as its boycott policies require. In these circumstances it cannot be said that the buyer is exercising right of unilateral and specific selection which meets the criteria of §760.3(d). For this reason, agreement to the contractual language discussed here would constitute an agreement to refuse to do business with any person rejected by the

buyer and would violate §760.2(a) of this part.

[61 FR 12862, Mar. 25, 1996, as amended at 65 FR 34950, June 1, 2000]

SUPPLEMENT NO. 14 TO PART 760—INTERPRETATION

(a) *Contractual clause concerning import, customs and boycott laws of a boycotting country.* The following language has appeared in tender documents issued by a boycotting country:

''Supplier declares his knowledge of the fact that the import, Customs and boycott laws, rules and regulations of [name of boycotting country] apply in importing to [name of boycotting country].''

''Supplier declares his knowledge of the fact that under these laws, rules and regulations, it is prohibited to import into [name of the boycotting country] any products or parts thereof that originated in [name of boycotted country]; were manufactured, produced or imported by companies formed under the laws of [name of boycotted country]; or were manufactured, produced or imported by nationals or residents of [name of boycotted country].''

Agreeing to the above contractual language is a prohibited agreement to refuse to do business, under §760.2(a) of this part. The first paragraph requires broad acknowledgment of the application of the boycotting country's boycott laws, rules and regulations. Unless this language is qualified to apply only to boycott restrictions with which U.S. persons may comply, agreement to it is prohibited. See §760.2(a) of this part, examples (v) and (vi) under ''Agreements to Refuse to Do Business.''

The second paragraph does not limit the scope of the boycott restrictions referenced in the first paragraph. It states that the boycott laws include restrictions on goods originating in the boycotted country; manufactured, produced or supplied by companies organized under the laws of the boycotted country; or manufactured, produced or supplied by nationals or residents of the boycotted country. Each of these restrictions is within the exception for compliance with the import requirements of the boycotting country (§760.3(a) of this part). However, the second paragraph's list of restrictions is not exclusive. Since the boycott laws generally include more than what is listed and permissible under the antiboycott law, U.S. persons may not agree to the quoted clause. For example, a country's boycott laws may prohibit imports of goods manufactured by blacklisted firms. Except as provided by §760.3(g) of this part, agreement to and compliance with this boycott restriction would be prohibited under the antiboycott law.

The above contractual language is distinguished from the contract clause determined to be permissible in supplement 1, Part II, A, by its acknowledgment that the boycott requirements of the boycotting country apply. Although the first sentence of the Supplement 1 clause does not exclude the possible application of boycott laws, it refers only to the import and customs laws of the boycotting country without mentioning the boycott laws as well. As discussed fully in supplement no. 1 to part 760, compliance with or agreement to the clause quoted there is, therefore, permissible.

The contract clause quoted above, as well as the clause dealt with in supplement no. 1 to part 760, part II, A, is reportable under §760.5(a)(1) of this part.

(b) *Letter of credit terms removing blacklist certificate requirement if specified vessels used.* The following terms frequently appear on letters of credit covering shipment to Iraq:

''Shipment to be effected by Iraqi State Enterprise for Maritime Transport Vessels or by United Arab Shipping Company (SAB) vessels, if available.''

''If shipment is effected by any of the above company's [sic] vessels, black list certificate or evidence to that effect is not required.''

These terms are not reportable and compliance with them is permissible.

The first sentence, a directive to use Iraqi State Enterprise for Maritime Transport or United Arab Shipping vessels, is neither reportable nor prohibited because it is not considered by the Department to be boycott-related. The apparent reason for the directive is Iraq's preference to have cargo shipped on its own vessels (or, as in the case of United Arab Shipping, on vessels owned by a company in part established and owned by the Iraqi government). Such ''cargo preference'' requirements, calling for the use of an importing or exporting country's own ships, are common throughout the world and are imposed for non-boycott reasons. (See §760.2(a) of this part, example (vii) AGREEMENTS TO REFUSE TO DO BUSINESS.)

In contrast, if the letter of credit contains a list of vessels or carriers that appears to constitute a boycott-related whitelist, a directive to select a vessel from that list would be both reportable and prohibited. When such a directive appears in conjunction with a term removing the blacklist certificate requirement if these vessels are used, the Department will presume that beneficiaries, banks and any other U.S. person receiving the letter of credit know that there is a boycott-related purpose for the directive.

The second sentence of the letter of credit language quoted above does not, by itself, call for a blacklist certificate and is not therefore, reportable. If a term elsewhere on

the letter of credit imposes a blacklist certificate requirement, then that other term would be reportable.

(c) *Information not related to a particular transaction in U.S. commerce.* Under §760.2 (c), (d) and (e), of this part U.S. persons are prohibited, with respect to their activities in U.S. commerce, from furnishing certain information. It is the Department's position that the required nexus with U.S. commerce is established when the furnishing of information itself occurs in U.S. commerce. Even when the furnishing of information is not itself in U.S. commerce, however, the necessary relationship to U.S. commerce will be established if the furnishing of information relates to particular transactions in U.S. commerce or to anticipated transactions in U.S. commerce. See, e.g. §760.2(d), examples (vii), (ix) and (xii) of this part.

The simplest situation occurs where a U.S. person located in the United States furnishes information to a boycotting country. The transfer of information from the United States to a foreign country is itself an activity in U.S. commerce. See §760.1(d)(1)(iv) of this part. In some circumstances, the furnishing of information by a U.S. person located outside the United States may also be an activity in U.S. commerce. For example, the controlled foreign subsidiary of a domestic concern might furnish to a boycotting country information the subsidiary obtained from the U.S.-located parent for that purpose. The subsidiary's furnishing would, in these circumstances, constitute an activity in U.S. commerce. See §760.1(d)(8) of this part.

Where the furnishing of information is not itself in U.S. commerce, the U.S. commerce requirement may be satisfied by the fact that the furnishing is related to an activity in U.S. foreign or domestic commerce. For example, if a shipment of goods by a controlled-in-fact foreign subsidiary of a U.S. company to a boycotting country gives rise to an inquiry from the boycotting country concerning the subsidiary's relationship with another firm, the Department regards any responsive furnishing of information by the subsidiary as related to the shipment giving rise to the inquiry. If the shipment is in U.S. foreign or domestic commerce, as defined by the regulations, then the Department regards the furnishing to be related to an activity in U.S. commerce and subject to the antiboycott regulations, whether or not the furnishing itself is in U.S. commerce.

In some circumstances, the Department may regard a furnishing of information as related to a broader category of present and prospective transactions. For example, if a controlled-in-fact foreign subsidiary of a U.S. company is requested to furnish information about its commercial dealings and it appears that failure to respond will result in its blacklisting, any responsive furnishing of information will be regarded by the Department as relating to all of the subsidiary's present and anticipated business activities with the inquiring boycotting country. Accordingly, if any of these present or anticipated business activities are in U.S. commerce, the Department will regard the furnishing as related to an activity in U.S. commerce and subject to the antiboycott regulations.

In deciding whether anticipated business activities will be in U.S. commerce, the Department will consider all of the surrounding circumstances. Particular attention will be given to the history of the U.S. person's business activities with the boycotting country and others, the nature of any activities occurring after a furnishing of information occurs and any relevant economic or commercial factors which may affect these activities.

For example, if a U.S. person has no activities with the boycotting country at present but all of its other international activities are in U.S. commerce, as defined by the Regulations, then the Department is likely to regard any furnishing of information by that person for the purpose of securing entry into the boycotting country's market as relating to anticipated activities in U.S. commerce and subject to the antiboycott regulations. Similarly, if subsequent to the furnishing of information to the boycotting country for the purpose of securing entry into its markets, the U.S. person engages in transactions with that country which are in U.S. commerce, the Department is likely to regard the furnishing as related to an activity in U.S. commerce and subject to the antiboycott regulations.

[61 FR 12862, Mar. 25, 1996, as amended at 65 FR 34950, June 1, 2000]

SUPPLEMENT NO. 15 TO PART 760—INTERPRETATION

Section 760.2 (c), (d), and (e) of this part prohibits United States persons from furnishing certain types of information with intent to comply with, further, or support an unsanctioned foreign boycott against a country friendly to the United States. The Department has been asked whether prohibited information may be transmitted—that is, passed to others by a United States person who has not directly or indirectly authored the information—without such transmission constituting a furnishing of information in violation of §760.2 (c), (d), and (e) of this part. Throughout this interpretation, ''transmission'' is defined as the passing on by one person of information initially authored by another. The Department believes that there is no distinction in the EAR between transmitting (as defined above) and furnishing prohibited information under the

EAR and that the transmission of prohibited information with the requisite boycott intent is a furnishing of information violative of the EAR. At the same time, however, the circumstances relating to the transmitting party's involvement will be carefully considered in determining whether that party intended to comply with, further, or support an unsanctioned foreign boycott.

The EAR does not deal specifically with the relationship between transmitting and furnishing. However, the restrictions in the EAR on responses to boycott-related conditions, both by direct and indirect actions and whether by primary parties or intermediaries, indicate that U.S. persons who simply transmit prohibited information are to be treated the same under the EAR as those who both author and furnish prohibited information. This has been the Department's position in enforcement actions it has brought.

The few references in the EAR to the transmission of information by third parties are consistent with this position. Two examples, both relating to the prohibition against the furnishing of information about U.S. persons' race, religion, sex, or national origin (§760.2(c) of this part), deal explicitly with transmitting information. These examples (§760.2(c) of this part, example (v), and §760.3(f) of this part, example (vi)) show that, in certain cases, when furnishing certain information is permissible, either because it is not within a prohibition or is excepted from a prohibition, transmitting it is also permissible. These examples concern information that may be furnished by individuals about themselves or their families. The examples show that employers may transmit to a boycotting country visa applications or forms containing information about an employee's race, religion, sex, or national origin if that employee is the source of the information and authorizes its transmission. In other words, within the limits of ministerial action set forth in these examples, employees' actions in transmitting information are protected by the exception available to the employee. The distinction between permissible and prohibited behavior rests not on the definitional distinction between furnishing and transmitting, but on the excepted nature of the information furnished by the employee. The information originating from the employee does not lose its excepted character because it is transmitted by the employer.

The Department's position regarding the furnishing and transmission of certificates of one's own blacklist status rests on a similar basis and does not support the contention that third parties may transmit prohibited information authored by another. Such self-certifications do not violate any prohibitions in the EAR (see Supplement Nos. 1(I)(B), 2, and 5(A)(2); §760.2(f), example (xiv)). It is the Department's position that it is not prohibited for U.S. persons to transmit such self-certifications completed by others. Once again, because furnishing the self-certification is not prohibited, third parties who transmit the self-certifications offend no prohibition. On the other hand, if a third party authored information about another's blacklist status, the act of transmitting that information would be prohibited.

A third example in the EAR (§760.5, example (xiv) of this part), which also concerns a permissible transmission of boycott-related information, does not support the theory that one may transmit prohibited information authored by another. This example deals with the reporting requirements in §760.5 of this part—not the prohibitions—and merely illustrates that a person who receives and transmits a self-certification has not received a reportable request.

It is also the Department's position that a U.S. person violates the prohibitions against furnishing information by transmitting prohibited information even if that person has received no reportable request in the transaction. For example, where documents accompanying a letter of credit contain prohibited information, a negotiating bank that transmits the documents, with the requisite boycott intent, to an issuing bank has not received a reportable request, but has furnished prohibited information.

While the Department does not regard the suggested distinction between transmitting and furnishing information as meaningful, the facts relating to the third party's involvement may be important in determining whether that party furnished information with the required intent to comply with, further, or support an unsanctioned foreign boycott. For example, if it is a standard business practice for one participant in a transaction to obtain and pass on, without examination, documents prepared by another party, it might be difficult to maintain that the first participant intended to comply with a boycott by passing on information contained in the unexamined documents. Resolution of such intent questions, however, depends upon an analysis of the individual facts and circumstances of the transaction and the Department will continue to engage in such analysis on a case-by-case basis.

This interpretation, like all others issued by the Department discussing applications of the antiboycott provisions of the EAR, should be read narrowly. Circumstances that differ in any material way from those discussed in this interpretation will be considered under the applicable provisions of the Regulations.

SUPPLEMENT NO. 16 TO PART 760—INTERPRETATION

Pursuant to Articles 5, 7, and 26 of the Treaty of Peace between the State of Israel

and the Hashemite Kingdom of Jordan and implementing legislation enacted by Jordan, Jordan's participation in the Arab economic boycott of Israel was formally terminated on August 16, 1995.

On the basis of this action, it is the Department's position that certain requests for information, action or agreement from Jordan which were considered boycott-related by implication now cannot be presumed boycott-related and thus would not be prohibited or reportable under the regulations. For example, a request that an exporter certify that the vessel on which it is shipping its goods is eligible to enter Hashemite Kingdom of Jordan ports has been considered a boycott-related request that the exporter could not comply with because Jordan has had a boycott in force against Israel. Such a request from Jordan after August 16, 1995 would not be presumed boycott-related because the underlying boycott requirement/basis for the certification has been eliminated. Similarly, a U.S. company would not be prohibited from complying with a request received from Jordanian government officials to furnish the place of birth of employees the company is seeking to take to Jordan because there is no underlying boycott law or policy that would give rise to a presumption that the request was boycott-related.

U.S. persons are reminded that requests that are on their face boycott-related or that are for action obviously in furtherance or support of an unsanctioned foreign boycott are subject to the regulations, irrespective of the country of origin. For example, requests containing references to ''blacklisted companies'', ''Israel boycott list'', ''non-Israeli goods'' or other phrases or words indicating boycott purpose would be subject to the appropriate provisions of the Department's antiboycott regulations.

PART 762—RECORDKEEPING

Sec.

762.1 Scope.
762.2 Records to be retained.
762.3 Records exempt from recordkeeping requirements.
762.4 Original records required.
762.5 Reproduction of original records.
762.6 Period of retention.
762.7 Producing and inspecting records.

AUTHORITY: 50 U.S.C. 4601 *et seq.;* 50 U.S.C. 1701 *et seq.;* E.O. 13222, 66 FR 44025, 3 CFR, 2001 Comp., p. 783; Notice of August 4, 2016, 81 FR 52587 (August 8, 2016).

SOURCE: 61 FR 12900, Mar. 25, 1996, unless otherwise noted.

§ 762.1 Scope.

In this part, references to the EAR are references to 15 CFR chapter VII, subchapter C.

(a) *Transactions subject to this part.* The recordkeeping provisions of this part apply to the following transactions:

(1) Transactions involving restrictive trade practices or boycotts described in part 760 of the EAR;

(2) Exports of commodities, software, or technology from the United States and any known reexports, transshipment, or diversions of items exported from the United States;

(3) Exports to Canada, if, at any stage in the transaction, it appears that a person in a country other than the United States or Canada has an interest therein, or that the item involved is to be reexported, transshipped, or diverted from Canada to another foreign country; or

(4) Any other transactions subject to the EAR, including, but not limited to, the prohibitions against servicing, forwarding and other actions for or on behalf of end-users of proliferation concern contained in §§ 736.2(b)(7) and 744.6 of the EAR. This part also applies to all negotiations connected with those transactions, except that for export control matters a mere preliminary inquiry or offer to do business and negative response thereto shall not constitute negotiations, unless the inquiry or offer to do business proposes a transaction that a reasonably prudent exporter would believe likely to lead to a violation of the EAA, the EAR or any order, license or authorization issued thereunder.

(b) *Persons subject to this part.* Any person subject to the jurisdiction of the United States who, as principal or agent (including a forwarding agent), participates in any transaction described in paragraph (a) of this section, and any person in the United States or abroad who is required to make and maintain records under any provision of the EAR, shall keep and maintain all records described in § 762.2 of this part that are made or obtained by that

person and shall produce them in a manner provided by § 762.7 of this part.

[61 FR 12900, Mar. 25, 1996, as amended at 70 FR 22249, Apr. 29, 2005; 78 FR 13471, Feb. 28, 2013]

§ 762.2 Records to be retained.

(a) *Records required to be retained*. The records required to be retained under this part 762 include the following:

(1) Export control documents as defined in part 772 of the EAR, except parties submitting documents electronically to BIS via the SNAP–R system are not required to retain copies of documents so submitted;

(2) Memoranda;

(3) Notes;

(4) Correspondence;

(5) Contracts;

(6) Invitations to bid;

(7) Books of account;

(8) Financial records;

(9) Restrictive trade practice or boycott documents and reports;

(10) Notification from BIS of an application being returned without action; notification by BIS of an application being denied; notification by BIS of the results of a commodity classification or encryption review request conducted by BIS; and,

(11) Other records pertaining to the types of transactions described in § 762.1(a) of this part, which are made or obtained by a person described in § 762.1(b) of this part.

(b) *Records retention references*. Paragraph (a) of this section describes records that are required to be retained. Other parts, sections, or supplements of the EAR which require the retention of records or contain recordkeeping provisions, include, but are not limited to the following:

(1) § 732.6, Steps for other requirements;

(2) § 734.4(g), *de minimis* calculation (method);

(3) Part 736, General Prohibitions;

(4) § 740.1, Introduction (to License Exceptions);

(5) § 740.9(a)(3)(i)(B), Tools of trade: Temporary exports, reexports, and transfers (in country) of technology by U.S. persons (TMP);

(6) § 740.10(c), Servicing and replacement of parts and equipment (RPL);

(7) § 740.11(b)(2)(iii) and (iv), Exports, reexports and transfers (in-country) made for or on behalf of a department or agency of the U.S. Government and Items exported at the direction of the U.S. Department of Defense (GOV);

(8) § 740.12, Humanitarian donations (GFT);

(9) § 740.13(h), Technology and software—unrestricted (TSU);

(10) § 740.20(g), Responses to License Exception STA eligibility requests for ''600 series'' end items (STA);

(11) § 743.1, Wassenaar reports;

(12) § 743.2, High Performance Computers;

(13) § 743.4(c)(1) and (c)(2), Conventional arms reporting;

(14) § 745.1, Annual reports;

(15) § 745.2, End-use certificates;

(16) § 746.3 Iraq;

(17) Part 747, Special Iraq Reconstruction License;

(18) § 748.1(d)(2), Procedure for requesting authorization to file paper applications, notifications, or requests;

(19) § 748.4(b), Disclosure of parties on license applications and the power of attorney;

(20) § 748.6, General instructions for license applications;

(21) § 748.9, Support documents for license applications;

(22) § 748.10, PRC End-User Statement;

(23) § 748.11, Statement by Ultimate Consignee and Purchaser;

(24) § 748.12, Firearms Convention (FC) Import Certificate;

(25) [Reserved]

(26) Supplement No. 2 to Part 748 paragraph (c)(2), Security Safeguard Plan requirement;

(27) § 750.7, Issuance of license and acknowledgment of conditions;

(28) § 750.8, Revocation or suspension of license;

(29) § 750.9, Duplicate licenses;

(30) § 750.10, Transfer of licenses for export;

(31)–(39) [Reserved]

(40) § 754.4, Unprocessed western red cedar;

(41) § 758.1 and § 758.2, Automated Export System record;

(42) § 758.1(h), Record and proof of agent's authority;

(43) § 758.3(b), Routed Export Transactions;

(44) § 758.6, Destination control statements;

(45) § 760.5, Reporting requirements;

(46) § 762.2, Records to be retained;

(47) § 764.2, Violations;

(48) § 764.5, Voluntary self-disclosure;

(49) § 766.10, Subpoenas;

(50) § 772.2, ''Specially designed'' definition, note to paragraphs (b)(4), (b)(5), and (b)(6);

(51) § 740.20, note to paragraph (c)(1), License Exception STA prior approval on a BIS or DDTC license (STA);

(52) § 744.15(b), UVL statement as well as any logs or records created for multiple exports, reexports, and transfers (in-country); and

(53) § 750.7(c)(2), Notification of name change by advisory opinion request.

(c) *Special recordkeeping requirement*—(1) *Libya*. Persons in receipt of a specific license granted by the Department of the Treasury's Office of Foreign Assets Control (OFAC) for the export to Libya of any item subject to the EAR must maintain a record of those items transferred to Libya pursuant to such specific license and record when the items are consumed or destroyed in the normal course of their use in Libya, reexported to a third country not requiring further authorization from BIS, or returned to the United States. This requirement applies only to items subject to a license requirement under the EAR for export to Libya as of April 29, 2004. These records must include the following information:

(i) Date of export or reexport and related details (including means of transport);

(ii) Description of items (including ECCN) and value of items in U.S. Dollars;

(iii) Description of proposed end-use and locations in Libya where items are intended to be used;

(iv) Parties other than specific OFAC licensee who may be given temporary access to the items; and

(v) Date of consumption or destruction, if the items are consumed or destroyed in the normal course of their use in Libya, or the date of reexport to a third country not requiring further authorization from BIS, or return to the United States.

(2) [Reserved]

[61 FR 12900, Mar. 25, 1996]

EDITORIAL NOTE: For FEDERAL REGISTER citations affecting § 762.2, see the List of CFR Sections Affected, which appears in the Finding Aids section of the printed volume and at *www.fdsys.gov*.

EFFECTIVE DATE NOTE: At 81 FR 87426, Dec. 5, 2016, § 762.2 was amended by removing and reserving paragraph (b)(17), effective Jan. 4, 2017.

§ 762.3 Records exempt from recordkeeping requirements.

(a) The following types of records have been determined to be exempt from the recordkeeping requirement procedures:

(1) Export information page;

(2) Special export file list;

(3) Vessel log from freight forwarder;

(4) Inspection certificate;

(5) Warranty certificate;

(6) Guarantee certificate;

(7) Packing material certificate;

(8) Goods quality certificate;

(9) Notification to customer of advance meeting;

(10) Letter of indemnity;

(11) Financial release form;

(12) Financial hold form;

(13) Export parts shipping problem form;

(14) Draft number log;

(15) Expense invoice mailing log;

(16) Financial status report;

(17) Bank release of guarantees;

(18) Cash sheet;

(19) Commission payment back-up;

(20) Commissions payable worksheet;

(21) Commissions payable control;

(22) Check request forms;

(23) Accounts receivable correction form;

(24) Check request register;

(25) Commission payment printout;

(26) Engineering fees invoice;

(27) Foreign tax receipt;

(28) Individual customer credit status;

(29) Request for export customers code forms;

(30) Acknowledgement for receipt of funds;

(31) Escalation development form;

(32) Summary quote;

(33) Purchase order review form;

(34) Proposal extensions;

(35) Financial proposal to export customers;

and

(36) Sales summaries.

(b) [Reserved]

[61 FR 12900, Mar. 25, 1996, as amended at 62 FR 25469, May 9, 1997]

§ 762.4 Original records required.

The regulated person must maintain the original records in the form in which that person receives or creates them unless that person meets all of the conditions of § 762.5 of this part relating to reproduction of records. If the original record does not meet the standards of legibility and readability described in § 762.5 of this part and the regulated person intends to rely on that record to meet the recordkeeping requirements of the EAR, that person must retain the original record. With respect to documents that BIS issues to a party in SNAP–R, either an electronically stored copy in a format that makes the document readable with software possessed by that party or a paper print out of the complete document is deemed to be an original record for purposes of this section.

[61 FR 12900, Mar. 25, 1996, as amended at 75 FR 17055, Apr. 5, 2010]

§ 762.5 Reproduction of original records.

(a) The regulated person may maintain reproductions instead of the original records provided all of the requirements of paragraph (b) of this section are met.

(b) In order to maintain the records required by § 762.2 of this part, the regulated persons defined in § 762.1 of this part may use any photographic, photostatic, miniature photographic, micrographic, automated archival storage, or other process that completely, accurately, legibly and durably reproduces the original records (whether on paper, microfilm, or through electronic digital storage techniques). The process must meet all of the following requirements, which are applicable to all systems:

(1) The system must be capable of reproducing all records on paper.

(2) The system must record and be able to reproduce all marks, information, and other characteristics of the original record, including both obverse and reverse sides of paper documents in legible form.

(3) When displayed on a viewer, monitor, or reproduced on paper, the records must exhibit a high degree of legibility and readability. (For purposes of this section, legible and legibility mean the quality of a letter or numeral that enable the observer to identify it positively and quickly to the exclusion of all other letters or numerals. Readable and readability mean the quality of a group of letters or numerals being recognized as complete words or numbers.)

(4) The system must preserve the initial image (including both obverse and reverse sides of paper documents) and record all changes, who made them and when they were made. This information must be stored in such a manner that none of it may be altered once it is initially recorded.

(5) The regulated person must establish written procedures to identify the individuals who are responsible for the operation, use and maintenance of the system.

(6) The regulated person must establish written procedures for inspection and quality assurance of records in the system and document the implementation of those procedures.

(7) The system must be complete and contain all records required to be kept by this part or the regulated person must provide a method for correlating, identifying and locating records relating to the same transaction(s) that are kept in other record keeping systems.

(8) The regulated person must keep a record of where, when, by whom, and on what equipment the records and other information were entered into the system.

(9) Upon request by the Office of Export Enforcement, the Office of Antiboycott Compliance, or any other agency of competent jurisdiction, the regulated person must furnish, at the examination site, the records, the equipment and, if necessary, knowledgeable personnel for locating, reading, and reproducing any record in the system.

(c) *Requirements applicable to systems based on the storage of digital images.*

For systems based on the storage of digital images, the system must provide accessibility to any digital image in the system. With respect to records of transactions, including those involving restrictive trade practices or boycott requirements or requests. The system must be able to locate and reproduce all records relating to a particular transaction based on any one of the following criteria:

(1) The name(s) of the parties to the transaction;

(2) Any country(ies) connected with the transaction; or

(3) A document reference number that was on any original document.

(d) *Requirements applicable to a system based on photographic processes*. For systems based on photographic, photostatic, or miniature photographic processes, the regulated person must maintain a detailed index of all records in the system that is arranged in such a manner as to allow immediate location of any particular record in the system.

§ 762.6 Period of retention.

(a) *Five year retention period*. All records required to be kept by the EAR must be retained for five years from the latest of the following times:

(1) The export from the United States of the item involved in the transaction to which the records pertain or the provision of financing, transporting or other service for or on behalf of end-users of proliferation concern as described in §§ 736.2(b)(7) and 744.6 of the EAR;

(2) Any known reexport, transshipment, or diversion of such item;

(3) Any other termination of the transaction, whether formally in writing or by any other means; or

(4) In the case of records of pertaining to transactions involving restrictive trade practices or boycotts described in part 760 of the EAR, the date the regulated person receives the boycott-related request or requirement.

(b) *Destruction or disposal of records*. If the Bureau of Industry and Security or any other government agency makes a formal or informal request for a certain record or records, such record or records may not be destroyed or disposed of without the written authorization of the agency concerned. This prohibition applies to records pertaining to voluntary disclosures made to BIS in accordance with § 764.5(c)(4)(ii) and other records even if such records have been retained for a period of time exceeding that required by paragraph (a) of this section.

[61 FR 12900, Mar. 25, 1996, as amended at 72 FR 3946, Jan. 29, 2007]

EDITORIAL NOTE: The following amendment could not be incorporated into § 762.6 because of an inaccurate amendatory instruction:

At 72 FR 43532, Aug. 6, 2007, § 762.6(b) is amended by removing the citation ''§ 765.5(c)(4)(ii)'' and adding ''§ 764.5(c)(4)(ii)'' in its place.

§ 762.7 Producing and inspecting records.

(a) *Persons located in the United States*. Persons located in the United States may be asked to produce records that are required to be kept by any provision of the EAR, or any license, order, or authorization issued thereunder and to make them available for inspection and copying by any authorized agent, official, or employee of the Bureau of Industry and Security, the U.S. Customs Service, or any other agency of the U.S. Government, without any charge or expense to such agent, official, or employee. The Office of Export Enforcement and the Office of Antiboycott Compliance encourage voluntary cooperation with such requests. When voluntary cooperation is not forthcoming, the Office of Export Enforcement and the Office of Antiboycott Compliance are authorized to issue subpoenas requiring persons to appear and testify, or produce books, records, and other writings. In instances where a person does not comply with a subpoena, the Department of Commerce may petition a district court to have a subpoena enforced.

(b) *Persons located outside of the United States*. Persons located outside of the United States that are required to keep records by any provision of the EAR or by any license, order, or authorization issued thereunder shall produce all records or reproductions of records required to be kept, and make them available for inspection and copying upon request by an authorized

agent, official, or employee of the Bureau of Industry and Security, the U.S. Customs Service, or a Foreign Service post, or by any other accredited representative of the U.S. Government, without any charge or expense to such agent, official or employee.

[61 FR 12900, Mar. 25, 1996, as amended at 65 FR 42573, July 10, 2000]

PART 764—ENFORCEMENT AND PROTECTIVE MEASURES

Sec.

764.1 Introduction.
764.2 Violations.
764.3 Sanctions.
764.4 Reporting of violations.
764.5 Voluntary self-disclosure.
764.6 Protective administrative measures.
764.7 Activities involving items that may have been illegally exported or reexported to Libya.
764.8 Voluntary self-disclosures for boycott violations.

SUPPLEMENT NO. 1 TO PART 764—STANDARD TERMS OF ORDERS DENYING EXPORT PRIVILEGES

AUTHORITY: 50 U.S.C. 4601 *et seq.;* 50 U.S.C. 1701 *et seq.;* E.O. 13222, 66 FR 44025, 3 CFR, 2001 Comp., p. 783; Notice of August 4, 2016, 81 FR 52587 (August 8, 2016).

SOURCE: 61 FR 12902, Mar. 25, 1996, unless otherwise noted.

§ 764.1 Introduction.

In this part, references to the EAR are references to 15 CFR chapter VII, subchapter C. This part specifies conduct that constitutes a violation of the Export Administration Act (EAA) and/or the Export Administration Regulations (EAR) and the sanctions that may be imposed for such violations. Antiboycott violations are described in part 760 of the EAR, and the violations and sanctions specified in part 764 also apply to conduct relating to part 760, unless otherwise stated. This part describes administrative sanctions that may be imposed by the Bureau of Industry and Security (BIS). This part also describes criminal sanctions that may be imposed by a United States court and other sanctions that are neither administrative nor criminal. Information is provided on how to report and disclose violations. Finally, this part identifies protective administrative measures that BIS may take in the exercise of its regulatory authority.

§ 764.2 Violations.

(a) *Engaging in prohibited conduct.* No person may engage in any conduct prohibited by or contrary to, or refrain from engaging in any conduct required by, the EAA, the EAR, or any order, license or authorization issued thereunder.

(b) *Causing, aiding, or abetting a violation.* No person may cause or aid, abet, counsel, command, induce, procure, or permit the doing of any act prohibited, or the omission of any act required, by the EAA, the EAR, or any order, license or authorization issued thereunder.

(c) *Solicitation and attempt.* No person may solicit or attempt a violation of the EAA, the EAR, or any order, license or authorization issued thereunder.

(d) *Conspiracy.* No person may conspire or act in concert with one or more persons in any manner or for any purpose to bring about or to do any act that constitutes a violation of the EAA, the EAR, or any order, license or authorization issued thereunder.

(e) *Acting with knowledge of a violation.* No person may order, buy, remove, conceal, store, use, sell, loan, dispose of, transfer, transport, finance, forward, or otherwise service, in whole or in part, any item exported or to be exported from the United States, or that is otherwise subject to the EAR, with knowledge that a violation of the EAA, the EAR, or any order, license or authorization issued thereunder, has occurred, is about to occur, or is intended to occur in connection with the item.

(f) *Possession with intent to export illegally.* No person may possess any item controlled for national security or foreign policy reasons under sections 5 or 6 of the EAA:

(1) With intent to export or reexport such item in violation of the EAA, the EAR, or any order, license or authorization issued thereunder; or

(2) With knowledge or reason to believe that the item would be so exported or reexported.

(g) *Misrepresentation and concealment of facts.* (1) No person may make any

false or misleading representation, statement, or certification, or falsify or conceal any material fact, either directly to BIS, the United States Customs Service, or an official of any other United States agency, or indirectly through any other person:

(i) In the course of an investigation or other action subject to the EAR; or

(ii) In connection with the preparation, submission, issuance, use, or maintenance of any export control document as defined in § 772.1, or any report filed or required to be filed pursuant to § 760.5 of the EAR; or

(iii) For the purpose of or in connection with effecting an export, reexport or other activity subject to the EAR.

(2) All representations, statements, and certifications made by any person are deemed to be continuing in effect. Every person who has made any representation, statement, or certification must notify BIS and any other relevant agency, in writing, of any change of any material fact or intention from that previously represented, stated, or certified, immediately upon receipt of any information that would lead a reasonably prudent person to know that a change of material fact or intention has occurred or may occur in the future.

(h) *Evasion*. No person may engage in any transaction or take any other action with intent to evade the provisions of the EAA, the EAR, or any order, license or authorization issued thereunder.

(i) *Failure to comply with reporting, recordkeeping requirements*. No person may fail or refuse to comply with any reporting or recordkeeping requirement of the EAR or of any order, license or authorization issued thereunder.

(j) *License alteration*. Except as specifically authorized in the EAR or in writing by BIS, no person may alter any license, authorization, export control document, or order issued under the EAR.

(k) *Acting contrary to the terms of a denial order*. No person may take any action that is prohibited by a denial order. See § 764.3(a)(2) of this part.

[61 FR 12902, Mar. 25, 1996, as amended at 62 FR 25469, May 9, 1997; 70 FR 8250, Feb. 18, 2005]

§ 764.3 Sanctions.

(a) *Administrative*. Violations of the EAA, the EAR, or any order, license or authorization issued thereunder are subject to the administrative sanctions described in this section and to any other liability, sanction, or penalty available under law. The protective administrative measures that are described in § 764.6 of this part are distinct from administrative sanctions.

(1) *Civil monetary penalty*. (i) A civil monetary penalty not to exceed the amount set forth in the EAA may be imposed for each violation, and in the event that any provision of the EAR is continued by IEEPA or any other authority, the maximum monetary civil penalty for each violation shall be that provided by such other authority.

(ii) The payment of any civil penalty may be made a condition, for a period not exceeding one year after the imposition of such penalty, to the granting, restoration, or continuing validity of any export license, License Exception, permission, or privilege granted or to be granted to the person upon whom such penalty is imposed.

(iii) The payment of any civil penalty may be deferred or suspended in whole or in part during any probation period that may be imposed. Such deferral or suspension shall not bar the collection of the penalty if the conditions of the deferral, suspension, or probation are not fulfilled.

(2) *Denial of export privileges*. An order may be issued that restricts the ability of the named persons to engage in export and reexport transactions involving items subject to the EAR, or that restricts access by named persons to items subject to the EAR. An order denying export privileges may be imposed either as a sanction for a violation specified in this part or as a protective administrative measure described in § 764.6(c) or (d) of this part. An order denying export privileges may suspend or revoke any or all outstanding licenses issued under the EAR to a person named in the denial order or in which such person has an interest, may deny or restrict exports and reexports by or to such person of any item subject to the EAR, and may restrict dealings in which that person

may benefit from any export or reexport of such items. The standard terms of a denial order are set forth in supplement no. 1 to this part. A non-standard denial order, narrower in scope, may be issued. Authorization to engage in actions otherwise prohibited by a denial order may be given by the Office of Exporter Services after consultation with the Office of Export Enforcement upon a written request by a person named in the denial order or by a person seeking permission to deal with a named person. Submit such requests to: Bureau of Industry and Security, Office of Exporter Services, Room 2099B, U.S. Department of Commerce, 14th Street and Pennsylvania Ave., NW., Washington, DC 20230.

(3) *Exclusion from practice.* Any person acting as an attorney, accountant, consultant, freight forwarder, or in any other representative capacity for any license application or other matter before BIS may be excluded by order from any or all such activities before BIS.

(b) *Criminal*[1]—(1) *General.* Except as provided in paragraph (b)(2) of this section, whoever knowingly violates or conspires to or attempts to violate the EAA, EAR, or any order or license issued thereunder, shall be fined not more than five times the value of the exports or reexports involved or $50,000, whichever is greater, or imprisoned not more than five years, or both.

(2) *Willful violations.* (i) Whoever willfully violates or conspires to or attempts to violate any provision of the EAA, the EAR, or any order or license issued thereunder, with knowledge that the exports involved will be used for the benefit of, or that the destination or intended destination of items involved is, any controlled country or any country to which exports or reexports are controlled for foreign policy purposes, except in the case of an individual, shall be fined not more than five times the value of the export or reexport involved or $1,000,000, whichever is greater; and, in the case of an individual, shall be fined not more than $250,000, or imprisoned not more than 10 years, or both.

(ii) Any person who is issued a license under the EAA or the EAR for the export or reexport of any items to a controlled country and who, with knowledge that such export or reexport is being used by such controlled country for military or intelligence gathering purposes contrary to the conditions under which the license was issued, willfully fails to report such use to the Secretary of Defense, except in the case of an individual, shall be fined not more than five times the value of the exports or reexports involved or $1,000,000, whichever is greater; and in the case of an individual, shall be fined not more than $250,000, or imprisoned not more than five years or both.

(iii) Any person who possesses any item with the intent to export or reexport such item in violation of an export control imposed under sections 5 or 6 of the EAA, the EAR, or any order or license issued thereunder, or knowing or having reason to believe that the item would be so exported or reexported, shall, in the case of a violation of an export control imposed under section 5 of the EAA (or the EAR, or any order or license issued thereunder with respect to such control), be subject to the penalties set forth in paragraph (b)(2)(i) of this section and shall in the case of a violation of an export control imposed under section 6 of the EAA (or the EAR, or any order or license issued thereunder with respect to such control), be subject to the penalties set forth in paragraph (b)(1) of this section.

(iv) Any person who takes any action with intent to evade the provisions of the EAA, the EAR, or any order or license issued thereunder, shall be subject to the penalties set forth in paragraph (b)(1) of this section, except that in the case of an evasion of an export control imposed under sections 5 or 6 of the EAA (or the EAR, or any order or license issued thereunder with respect to such control), such person shall be

[1] In the event that any part of the EAR is not under the authority of the EAA, sanctions shall be limited to those provided for by such other authority or by 18 U.S.C. 3571, a criminal code provision that establishes a maximum criminal fine for a felony that is the greater of the amount provided by the statute that was violated, or an amount not more than $500,000 for an organization. The Federal Sentencing Guidelines found in § 2M5.1 of Appendix 4 to Title 18 of the United States Code apply, to the extent followed by the court, to sentencing for convictions for violating the EAA.

subject to the penalties set forth in paragraph (b)(2)(i) of this section.

(3) *Other criminal sanctions.* Conduct that constitutes a violation of the EAA, the EAR, or any order, license or authorization issued thereunder, or that occurs in connection with such a violation, may also be prosecuted under other provisions of law, including 18 U.S.C. 371 (conspiracy), 18 U.S.C. 1001 (false statements), 18 U.S.C. 1341, 1343, and 1346 (mail and wire fraud), and 18 U.S.C. 1956 and 1957 (money laundering).

(c) *Other sanctions.* Conduct that violates the EAA, the EAR, or any order, license or authorization issued thereunder, and other conduct specified in the EAA may be subject to sanctions or other measures in addition to criminal and administrative sanctions under the EAA or EAR. These include, but are not limited to, the following:

(1) *Statutory sanctions.* Statutorily-mandated sanctions may be imposed on account of specified conduct related to weapons proliferation. Such statutory sanctions are not civil or criminal penalties, but restrict imports and procurement (See section 11A of the EAA, Multilateral Export Control Violations, and section 11C of the EAA, Chemical and Biological Weapons Proliferation), or restrict export licenses (See section 11B of the EAA, Missile Proliferation Violations, and the Iran-Iraq Arms Non-Proliferation Act of 1992).

(2) *Other sanctions and measures*—(i) *Seizure and forfeiture.* Items that have been, are being, or are intended to be, exported or shipped from or taken out of the United States in violation of the EAA, the EAR, or any order, license or authorization issued thereunder, are subject to being seized and detained as are the vessels, vehicles, and aircraft carrying such items. Seized items are subject to forfeiture. (50 U.S.C. app. 2411(g); 22 U.S.C. 401.)

(ii) *Cross-debarment.* (A) The Department of State may deny licenses or approvals for the export or reexport of defense articles and defense services controlled under the Arms Export Control Act to persons indicted or convicted of specified criminal offenses, including violations of the EAA, or to persons denied export privileges by BIS or another agency. (22 CFR 126.7(a) and 127.11(a).)

(B) The Department of Defense, among other agencies, may suspend the right of any person to contract with the United States Government based on export control violations. (Federal Acquisition Regulations 9.407–2.)

[61 FR 12902, Mar. 25, 1996, as amended at 62 FR 25469, May 9, 1997; 71 FR 44190, Aug. 4, 2006; 73 FR 75945, Dec. 15, 2008; 78 FR 13471, Feb. 28, 2013]

§ 764.4 Reporting of violations.

(a) *Where to report.* If a person learns that an export control violation of the EAR has occurred or may occur, that person may notify:

Office of Export Enforcement, Bureau of Industry and Security,U.S. Department of Commerce, 14th Street and Constitution Avenue, N.W., Room H–4520, Washington, D.C. 20230, Tel: (202) 482–1208, Facsimile: (202) 482–0964

or, for violations of part 760 of the EAR:

Office of Antiboycott Compliance, Bureau of Industry and Security, U.S. Department of Commerce, 14th Street and Constitution Avenue, N.W., Room H–6099C, Washington, D.C. 20230, Tel: (202) 482–2381, Facsimile: (202) 482–0913.

(b) *Failure to report violations.* Failure to report potential violations may result in the unwarranted issuance of licenses or exports without the required licenses to the detriment of the interests of the United States.

(c) *Reporting requirement distinguished.* The reporting provisions in paragraph (a) of this section are not ''reporting requirements'' within the meaning of § 764.2(i) of this part.

(d) *Formerly embargoed destinations.* Reporting requirements for activities within the scope of § 764.2(e) that involve items subject to the EAR which may have been illegally exported or reexported to Libya prior to the lifting of the comprehensive embargo on Libya are found in § 764.7 of the EAR.

[61 FR 12902, Mar. 25, 1996, as amended at 70 FR 14391, Mar. 22, 2005]

§ 764.5 Voluntary self-disclosure.

(a) *General policy.* BIS strongly encourages disclosure to OEE if you believe that you may have violated the

EAR, or any order, license or authorization issued thereunder. Voluntary self-disclosure is a mitigating factor in determining what administrative sanctions, if any, will be sought by OEE.

(b) *Limitations.* (1) The provisions of this section do not apply to disclosures of violations relating to part 760 of the EAR.

(2) The provisions of this section apply only when information is provided to OEE for its review in determining whether to take administrative action under part 766 of the EAR for violations of the export control provisions of the EAR.

(3) The provisions of this section apply only when information is received by OEE for review prior to the time that OEE, or any other agency of the United States Government, has learned the same or substantially similar information from another source and has commenced an investigation or inquiry in connection with that information.

(4) While voluntary self-disclosure is a mitigating factor in determining what administrative sanctions, if any, will be sought by OEE, it is a factor that is considered together with all other factors in a case. The weight given to voluntary self-disclosure is solely within the discretion of OEE, and the mitigating effect of voluntary self-disclosure may be outweighed by aggravating factors. Voluntary self-disclosure does not prevent transactions from being referred to the Department of Justice for criminal prosecution. In such a case, OEE would notify the Department of Justice of the voluntary self-disclosure, but the consideration of that factor is within the discretion of the Department of Justice.

(5) A firm will not be deemed to have made a disclosure under this section unless the individual making the disclosure did so with the full knowledge and authorization of the firm's senior management.

(6) The provisions of this section do not, nor should they be relied on to, create, confer, or grant any rights, benefits, privileges, or protection enforceable at law or in equity by any person, business, or entity in any civil, criminal, administrative, or other matter.

(c) *Information to be provided*—(1) *General.* Any person wanting to disclose information that constitutes a voluntary self-disclosure should, in the manner outlined below, initially notify OEE as soon as possible after violations are discovered, and then conduct a thorough review of all export-related transactions where violations are suspected.

(2) *Initial notification*—(i) *Manner and content of initial notification.* The initial notification should be in writing and be sent to the address in paragraph (c)(7) of this section. The notification should include the name of the person making the disclosure and a brief description of the suspected violations, and should designate a contact person regarding the initial notification and provide that contact person's current business street address, email address, and telephone number. The notification should describe the general nature and extent of the violations. OEE recognizes that there may be situations where it will not be practical to make an initial notification in writing. For example, written notification may not be practical if a shipment leaves the United States without the required license, yet there is still an opportunity to prevent acquisition of the items by unauthorized persons. In such situations, OEE should be contacted promptly at the office listed in paragraph (c)(7) of this section.

(ii) *Initial notification date.* For purposes of calculating when a complete narrative account must be submitted under paragraph (c)(2)(iii) of this section, the initial notification date is the date the notification is received by OEE. OEE will notify the disclosing party in writing of the date that it receives the initial notification. At OEE's discretion, such writing from OEE may be on paper, or in an email message or facsimile transmission from OEE, or by any other method for the transmission of written communications. Where it is not practical to make an initial notification in writing, the person making the notification should confirm the oral notification in writing as soon as possible.

(iii) *Timely completion of narrative accounts.* The narrative account required by paragraph (c)(3) of this section must be received by OEE within 180 days of

the initial notification date for purposes of paragraph (b)(3) of this section, absent an extension from the Director of OEE. If the person making the initial notification subsequently completes and submits to OEE the narrative account required by paragraph (c)(3) of this section such that OEE receives it within 180 days of the initial notification date, or within the additional time, if any, granted by the Director of OEE pursuant to paragraph (c)(2)(iv) of this section, the disclosure, including violations disclosed in the narrative account that were not expressly mentioned in the initial notification, will be deemed to have been made on the initial notification date for purposes of paragraph (b)(3) of this section if the initial notification was made in compliance with paragraphs (c)(1) and (2) of this section. Failure to meet the deadline (either the initial 180-day deadline or an extended deadline granted by the Director of OEE) would not be an additional violation of the EAR, but such failure may reduce or eliminate the mitigating impact of the voluntary disclosure under supplement no. 1 to this part. For purposes of determining whether the deadline has been met under this paragraph, a complete narrative account must contain all of the pertinent information called for in paragraphs (c)(3), (c)(4), and (c)(5) of this section, and the voluntary self-disclosure must otherwise meet the requirements of this section.

(iv) *Deadline extensions.* The Director of OEE may extend the 180-day deadline upon a determination in his or her discretion that U.S. Government interests would be served by an extension or that the person making the initial notification has shown that more than 180 days is reasonably needed to complete the narrative account.

(A) *Conditions for extension.* The Director of OEE in his or her discretion may place conditions on the approval of an extension. For example, the Director of OEE may require that the disclosing person agree to toll the statute of limitations with respect to violations disclosed in the initial notification or discovered during the review for or preparation of the narrative account, and/or require the disclosing person to undertake specified interim remedial compliance measures.

(B) *Contents of Request.* (*1*) In most instances 180 days should be adequate to complete the narrative account. Requests to extend the 180-day deadline set forth in paragraph (c)(2)(iii) of this section will be determined by the Director of OEE pursuant to his or her authority under this paragraph (c)(2)(iv) based upon his consideration and evaluation of U.S. Government interests and the facts and circumstances surrounding the request and any related investigations. Such requests should show specifically that the person making the request:

(*i*) Began its review promptly after discovery of the violations;

(*ii*) Has been conducting its review and preparation of the narrative account as expeditiously as can be expected, consistent with the need for completeness and accuracy;

(*iii*) Reasonably needs the requested extension despite having begun its review promptly after discovery of the violations and having conducted its review and preparation of the narrative account as expeditiously as can be expected consistent with the need for completeness and accuracy; and

(*iv*) Has considered whether interim compliance or other corrective measures may be needed and has undertaken such measures as appropriate to prevent recurring or additional violations.

(*2*) Such requests also should set out a proposed timeline for completion and submission of the narrative account that is reasonable under the applicable facts and circumstances, and should also designate a contact person regarding the request and provide that contact person's current business street address, email address, and telephone number. Requests may also include additional information that the person making the request reasonably believes is pertinent to the request under the applicable facts and circumstances.

(C) *Timing of requests.* Requests for an extension should be made before the 180-day deadline and as soon as possible once a disclosing person determines that it will be unable to meet the deadline or the extended deadline where an extension previously has been granted,

and possesses the information needed to prepare an extension request in accordance with paragraph (c)(2)(iv)(B) of this section. Requests for extension that are not received before the deadline for completing the narrative account has passed will not be considered. Parties who request an extension shortly before the deadline incur the risk that the Director of OEE will be unable to consider the request, determine whether or not to grant the extension, and communicate his or her decision before the deadline, and that any subsequently submitted narrative account will be considered untimely under paragraph (c)(2)(iii) of this section.

(3) *Narrative account.* After the initial notification, a thorough review should be conducted of all export-related transactions where possible violations are suspected. OEE recommends that the review cover a period of five years prior to the date of the initial notification. If your review goes back less than five years, you risk failing to discover violations that may later become the subject of an investigation. Any violations not voluntarily disclosed do not receive consideration under this section. However, the failure to make such disclosures will not be treated as a separate violation unless some other section of the EAR or other provision of law requires disclosure. Upon completion of the review, OEE should be furnished with a narrative account that sufficiently describes the suspected violations so that their nature and gravity can be assessed. The narrative account should also describe the nature of the review conducted and measures that may have been taken to minimize the likelihood that violations will occur in the future. The narrative account should include:

(i) The kind of violation involved, for example, a shipment without the required license or dealing with a party denied export privileges;

(ii) An explanation of when and how the violations occurred;

(iii) The complete identities and addresses of all individuals and organizations, whether foreign or domestic, involved in the activities giving rise to the violations;

(iv) License numbers;

(v) The description, quantity, value in U.S. dollars and ECCN or other classification of the items involved; and

(vi) A description of any mitigating circumstances.

(4) *Supporting documentation.* (i) The narrative account should be accompanied by copies of documents that explain and support it, including:

(A) Licensing documents such as licenses, license applications, import certificates and end-user statements;

(B) Shipping documents such as Shipper's Export Declarations, air waybills and bills of lading; and

(C) Other documents such as letters, facsimiles, telexes and other evidence of written or oral communications, internal memoranda, purchase orders, invoices, letters of credit and brochures.

(ii) Any relevant documents not attached to the narrative account must be retained by the person making the disclosure until OEE requests them, or until a final decision on the disclosed information has been made. After a final decision, the documents should be maintained in accordance with the recordkeeping rules in part 762 of the EAR.

(5) *Certification.* A certification must be submitted stating that all of the representations made in connection with the voluntary self-disclosure are true and correct to the best of that person's knowledge and belief. Certifications made by a corporation or other organization should be signed by an official of the corporation or other organization with the authority to do so. Section 764.2(g) of this part, relating to false or misleading representations, applies in connection with the disclosure of information under this section.

(6) *oral presentations.* OEE believes that oral presentations are generally not necessary to augment the written narrative account and supporting documentation. If the person making the disclosure believes otherwise, a request for a meeting should be included with the disclosure.

(7) *Where to make voluntary self-disclosures.* The information constituting a voluntary self-disclosure or any other correspondence pertaining to a voluntary self-disclosure may be submitted to: Director, Office of Export Enforcement, 1401 Constitution Ave.,

Room H4514, Washington, DC 20230, Tel: (202) 482–5036, Facsimile: (202) 482–5889.

(d) *Action by the Office of Export Enforcement.* After OEE has been provided with the required narrative and supporting documentation, it will acknowledge the disclosure by letter, provide the person making the disclosure with a point of contact, and take whatever additional action, including further investigation, it deems appropriate. As quickly as the facts and circumstances of a given case permit, OEE may take any of the following actions:

(1) Inform the person making the disclosure that, based on the facts disclosed, it plans to take no action;

(2) Issue a warning letter;

(3) Issue a proposed charging letter pursuant to § 766.18 of the EAR and attempt to settle the matter;

(4) Issue a charging letter pursuant to § 766.3 of the EAR if a settlement is not reached; and/or

(5) Refer the matter to the Department of Justice for criminal prosecution.

(e) *Criteria.* Supplement no. 1 to part 766 describes how BIS typically exercises its discretion regarding whether to pursue an administrative enforcement case under part 766 and what administrative sanctions to seek in settling such a case.

(f) *Treatment of unlawfully exported items after voluntary self-disclosure.* (1) Any person taking certain actions with knowledge that a violation of the EAA or the EAR has occurred has violated § 764.2(e) of this part. Any person who has made a voluntary self-disclosure knows that a violation may have occurred. Therefore, at the time that a voluntary self-disclosure is made, the person making the disclosure may request permission from BIS to engage in the activities described in § 764.2(e) of this part that would otherwise be prohibited. If the request is granted by the Office of Exporter Services in consultation with OEE, future activities with respect to those items that would otherwise violate § 764.2(e) of this part will not constitute violations. However, even if permission is granted, the person making the voluntary self-disclosure is not absolved from liability for any violations disclosed nor relieved of the obligation to obtain any required reexport authorizations.

(2) A license to reexport items that are the subject of a voluntary self-disclosure, and that have been exported contrary to the provisions of the EAA or the EAR, may be requested from BIS in accordance with the provisions of part 748 of the EAR. If the applicant for reexport authorization knows that the items are the subject of a voluntary self-disclosure, the request should state that a voluntary self-disclosure was made in connection with the export of the commodities for which reexport authorization is sought.

[61 FR 12902, Mar. 25, 1996, as amended at 62 FR 25469, May 9, 1997; 69 FR 7870, Feb. 20, 2004; 70 FR 22250, Apr. 29, 2005; 78 FR 48605, Aug. 9, 2013]

§ 764.6 Protective administrative measures.

(a) *License Exception limitation.* As provided in § 740.2(b) of the EAR, all License Exceptions are subject to revision, suspension, or revocation.

(b) *Revocation or suspension of licenses.* As provided in § 750.8 of the EAR, all licenses are subject to revision, suspension, or revocation.

(c) *Temporary denial orders.* BIS may, in accordance with § 766.24 of the EAR, issue an order temporarily denying export privileges when such an order is necessary in the public interest to prevent the occurrence of an imminent violation.

(d) *Denial based on criminal conviction.* BIS may, in accordance with § 766.25 of the EAR, issue an order denying the export privileges of any person who has been convicted of an offense specified in § 11(h) of the EAA.

§ 764.7 Activities involving items that may have been illegally exported or reexported to Libya.

(a) *Introduction.* As set forth in § 764.2(e) of this part, and restated in General Prohibition Ten at § 736.2(b)(10) of the EAR, no person (including a non-U.S. Third Party) may order, buy, remove, conceal, store, use, sell, loan, dispose of, transfer, finance, forward, or otherwise service, in whole or in part, any item subject to the EAR with knowledge that a violation has occurred, or will occur, in connection

with the item. This section addresses the application of § 764.2(e) of this part to activities involving items subject to the EAR that may have been illegally exported or reexported to Libya before the comprehensive embargo on Libya ended (April 29, 2004) (''installed base'' items).

(b) *Libya*—(1) *Activities involving installed base items in Libya for which no license is required.* Subject to the reporting requirement set forth in paragraph (b)(1)(ii) of this section, activities within the scope of § 764.2(e) of this part involving installed base items described in paragraph (b)(1)(i) of this section that are located in Libya and that were exported or reexported before April 29, 2004 do not require a license from BIS.

(i) *Scope.* An installed base item is within the scope of paragraph (b)(1) of this section if:

(A) It is not on the Commerce Control List in supplement no. 1 to part 774 of the EAR;

(B) It is on the Commerce Control List, but is authorized for export or reexport pursuant to a License Exception to Libya; or

(C) It is on the Commerce Control List and controlled only for AT reasons or for NS and AT reasons only, and is not listed on the Wassenaar Arrangement's Sensitive List (Annex 1) or Very Sensitive List (Annex 2) posted on the Wassenaar Arrangement's Web site (*www.wassenaar.org*) at the Control Lists web page.

NOTE 1 TO PARAGRAPH (b)(1)(i): An item being exported or reexported to Libya may require a license based on the classification of the item to be exported or reexported regardless of whether the item will be used in connection with an installed base item. See paragraph (b)(4) of this section.

NOTE 2 TO PARAGRAPH (b)(1)(i): Not all items listed on the Wassenaar Arrangement's Annex 1, Sensitive List, and Annex 2, Very Sensitive List, fall under the export licensing jurisdiction of the Department of Commerce. Please refer to the Commerce Control List for additional jurisdictional information related to those items. Also, if you do not have access to the internet to review the Wassenaar Arrangement's Sensitive List and Very Sensitive List, please contact the Office of Exporter Services, Division of Exporter Counseling for assistance at telephone number (202) 482–4811.

(ii) *Reporting requirement.* Any person engaging in activity described in paragraph (b)(1) of this section must submit to BIS's Office of Export Enforcement (OEE) a report including all known material facts with respect to how the installed base item arrived in Libya. The report must be submitted to OEE at the address identified in § 764.4(a) of the EAR within ninety (90) days of the first activity relating to the installed base item in Libya. A report may address more than one activity and/or more than one installed base item. An additional report must be submitted if any new material information regarding the export or reexport to Libya of the installed base item is discovered.

(2) *Licensing procedure for activities involving installed base items in Libya*—(i) *License requirement.* Any person seeking to undertake activities within the scope of § 764.2(e) of the EAR with respect to any installed base item located in Libya and not described in paragraph (b)(1)(i) of this section must obtain a license from BIS prior to engaging in any such activities. License applications should be submitted in accordance with §§ 748.1, 748.4 and 748.6 of the EAR, and should fully describe the relevant activity within the scope of § 764.2(e) of this part which is the basis of the application. License applications should include all known material facts as to how the installed base item originally was exported or reexported to Libya. This section also applies if you know that an item to be exported or reexported to a third party will be used on an installed base item not described in paragraph (b)(1)(i) of this section.

(ii) *Licensing policy.* BIS will review license applications submitted pursuant to paragraph (b)(2)(i) of this section on a case-by-case basis. Favorable consideration will be given for those applications related to civil end-uses in Libya. Applications related to military, police, intelligence, or other sensitive end-uses in Libya will be subject to a general policy of denial.

(3) *Exclusion.* The provisions of this section are not applicable to any activities within the scope of § 764.2(e) of the EAR undertaken with respect to an

installed base item in Libya by a person who was party to the original illegal export or reexport of the related installed base item to Libya. Such persons should voluntarily self-disclose violations pursuant to the procedures set forth in § 764.5 of this part, which in some cases may allow activities related to unlawfully exported or reexported items to be undertaken based on permission from BIS.

(4) *Relationship to other Libya license requirements.* Notwithstanding this section, a license may be required pursuant to another provision of the EAR to engage in activity involving Libya. If a license is required pursuant to another section of the EAR, and the transaction also involves activity within the scope of § 764.2(e) of this part related to an installed base item in Libya, this information should be specified on the license application. Such applications must also include all known information as to how the installed base item originally arrived in Libya. If granted, the license for the proposed transaction will also authorize the related activity within the scope of § 764.2(e) of this part.

[70 FR 14391, Mar. 22, 2005, as amended at 71 FR 51719, Aug. 31, 2006; 73 FR 49331, Aug. 21, 2008]

§ 764.8 Voluntary self-disclosures for boycott violations.

This section sets forth procedures for disclosing violations of part 760 of the EAR—Restrictive Trade Practices or Boycotts and violations of part 762—Recordkeeping—with respect to records related to part 760. In this section, these provisions are referred to collectively as the ''antiboycott provisions.'' This section also describes BIS's policy regarding such disclosures.

(a) *General policy.* BIS strongly encourages disclosure to the Office of Antiboycott Compliance (OAC) if you believe that you may have violated the antiboycott provisions. Voluntary self-disclosures are a mitigating factor with respect to any enforcement action that OAC might take.

(b) *Limitations.* (1) This section does not apply to disclosures of violations relating to provisions of the EAR other than the antiboycott provisions. Section 764.5 of this part describes how to prepare disclosures of violations of the EAR other than the antiboycott provisions.

(2) The provisions of this section apply only when information is provided to OAC for its review in determining whether to take administrative action under parts 764 and 766 of the EAR for violations of the antiboycott provisions.

(3) *Timing.* The provisions of this section apply only if OAC receives the voluntary self-disclosure as described in paragraph (c)(2) of this section before it commences an investigation or inquiry in connection with the same or substantially similar information it received from another source.

(i) *Mandatory reports.* For purposes of this section, OAC's receipt of a report required to be filed under § 760.5 of the EAR that discloses that a person took an action prohibited by part 760 of the EAR constitutes the receipt of information from another source.

(ii) *Requests for advice.* For purposes of this section, a violation that is revealed to OAC by a person who is seeking advice, either by telephone or e-mail, about the antiboycott provisions does not constitute the receipt of information from another source. Such revelation also does not constitute a voluntary self-disclosure or initial notification of a voluntary self-disclosure for purposes of this section.

(4) Although a voluntary self-disclosure is a mitigating factor in determining what administrative sanctions, if any, will be sought by BIS, it is a factor that is considered together with all other factors in a case. The weight given to voluntary self-disclosure is solely within the discretion of BIS, and the mitigating effect of voluntary self-disclosure may be outweighed by aggravating factors. Voluntary self-disclosure does not prevent transactions from being referred to the Department of Justice for criminal prosecution. In such a case, BIS would notify the Department of Justice of the voluntary self-disclosure, but the decision as to how to consider that factor is within the discretion of the Department of Justice.

(5) A firm will not be deemed to have made a disclosure under this section

unless the individual making the disclosure did so with the full knowledge and authorization of the firm's senior management or of a person with authority to make such disclosures on behalf of the firm.

(6) The provisions of this section do not, nor should they be relied on to, create, confer, or grant any rights, benefits, privileges, or protection enforceable at law or in equity by any person, business, or entity in any civil, criminal, administrative, or other matter.

(c) *Information to be provided*—(1) *General*. Any person wanting to disclose information that constitutes a voluntary self-disclosure should, in the manner outlined below, initially notify OAC as soon as possible after violations are discovered, and then conduct a thorough review of all transactions where violations of the antiboycott provisions are suspected.

(2) *Initial notification*. The initial notification must be in writing and be sent to the address in § 764.8(c)(7) of this part. The notification should include the name of the person making the disclosure and a brief description of the suspected violations. The notification should describe the general nature and extent of the violations. If the person making the disclosure subsequently completes the narrative account required by § 764.8(c)(3) of this part, the disclosure will be deemed to have been made on the date of the initial notification for purposes of § 764.8(b)(3) of this part.

(3) *Narrative account*. After the initial notification, a thorough review should be conducted of all business transactions where possible antiboycott provision violations are suspected. OAC recommends that the review cover a period of five years prior to the date of the initial notification. If your review goes back less than five years, you risk failing to discover violations that may later become the subject of an investigation. Any violations not voluntarily disclosed do not receive the same mitigation as the violations voluntarily self-disclosed under this section. However, the failure to make such disclosures will not be treated as a separate violation unless some other section of the EAR or other provision of law enforced by BIS requires disclosure. Upon completion of the review, OAC should be furnished with a narrative account that sufficiently describes the suspected violations so that their nature and gravity can be assessed. The narrative account should also describe the nature of the review conducted and measures that may have been taken to minimize the likelihood that violations will occur in the future. The narrative account should include:

(i) The kind of violation involved, for example, the furnishing of a certificate indicating that the goods supplied did not originate in a boycotted country;

(ii) An explanation of when and how the violations occurred, including a description of activities surrounding the violations (e.g., contract negotiations, sale of goods, implementation of letter of credit, bid solicitation);

(iii) The complete identities and addresses of all individuals and organizations, whether foreign or domestic, involved in the activities giving rise to the violations; and

(iv) A description of any mitigating factors.

(4) Supporting documentation.

(i) The narrative account should be accompanied by copies of documents that explain and support it, including:

(A) Copies of boycott certifications and declarations relating to the violation, or copies of documents containing prohibited language or prohibited requests for information;

(B) Other documents relating to the violation, such as letters, facsimiles, telexes and other evidence of written or oral communications, negotiations, internal memoranda, purchase orders, invoices, bid requests, letters of credit and brochures;

(ii) Any relevant documents not attached to the narrative account must be retained by the person making the disclosure until the latest of the following: the documents are supplied to OAC; BIS informs the disclosing party that it will take no action; BIS issues a warning letter for the violation; BIS issues an order that constitutes the final agency action in the matter and all avenues for appeal are exhausted; or the documents are no longer required to be kept under part 762 of the EAR.

(5) *Certification*. A certification must be submitted stating that all of the

representations made in connection with the voluntary self-disclosure are true and correct to the best of that person's knowledge and belief. Certifications made by a corporation or other organization should be signed by an official of the corporation or other organization with the authority to do so. Section 764.2(g) of this part relating to false or misleading representations applies in connection with the disclosure of information under this section.

(6) *Oral presentations.* OAC believes that oral presentations are generally not necessary to augment the written narrative account and supporting documentation. If the person making the disclosure believes otherwise, a request for a meeting should be included with the disclosure.

(7) *Where to make voluntary self-disclosures.* The information constituting a voluntary self-disclosure or any other correspondence pertaining to a voluntary self-disclosure should be submitted to: Office of Antiboycott Compliance, 14th and Pennsylvania Ave., NW., Room 6098, Washington, DC 20230, tel: (202) 482–2381, facsimile: (202) 482–0913.

(d) *Action by the Office of Antiboycott Compliance.* After OAC has been provided with the required narrative and supporting documentation, it will acknowledge the disclosure by letter, provide the person making the disclosure with a point of contact, and take whatever additional action, including further investigation, it deems appropriate. As quickly as the facts and circumstances of a given case permit, BIS may take any of the following actions:

(1) Inform the person making the disclosure that, based on the facts disclosed, it plans to take no action;

(2) Issue a warning letter;

(3) Issue a proposed charging letter and attempt to settle the matter pursuant to §766.18 of the EAR;

(4) Issue a charging letter pursuant to §766.3 of the EAR if a settlement is not reached or BIS otherwise deems appropriate; and/or

(5) Refer the matter to the Department of Justice for criminal prosecution.

(e) *Criteria.* Supplement no. 2 to part 766 of the EAR describes how BIS typically exercises its discretion regarding whether to pursue an antiboycott administrative enforcement case under part 766 and what administrative sanctions to seek in settling such a case.

[72 FR 39004, July 17, 2007]

SUPPLEMENT NO. 1 TO PART 764—STANDARD TERMS OF ORDERS DENYING EXPORT PRIVILEGES

(a) *General.* (1) Orders denying export privileges may be ''standard'' or ''non-standard.'' This Supplement specifies terms of the standard order denying export privilege with respect to denial orders issued after March 25, 1996. Denial orders issued prior to March 25, 1996 are to be construed, insofar as possible, as having the same scope and effect as the standard denial order. All denial orders are published in the FEDERAL REGISTER. The failure by any person to comply with any denial order is a violation of the Export Administration Regulations (EAR) (see §764.2(k) of this part). BIS provides a list of persons currently subject to denial orders on its Web site at *http://www.bis.doc.gov*.

(2) Each denial order shall include:

(i) The name and address of any denied persons and any related persons subject to the denial order;

(ii) The basis for the denial order, such as final decision following charges of violation, settlement agreement, section 11(h) of the EAA, or temporary denial order request;

(iii) The period of denial, the effective date of the order, whether and for how long any portion of the denial of export privileges is suspended, and any conditions of probation; and

(iv) Whether any or all outstanding licenses issued under the EAR to the person(s) named in the denial order or in which such person(s) has an interest, are suspended or revoked.

Denial orders issued prior to March 25, 1996, are to be construed, insofar as possible, as having the same scope and effect as the standard denial order.

The introduction to each denial order shall be specific to that order, and shall include: (1) The name and address of any denied persons and any related persons subject to the denial order; (2) the basis for the denial order, such as final decision following charges of violation, settlement agreement, §11(h) of the EAA, or temporary denial order request; (3) the period of denial, the effective date of the order, whether and for how long any portion of the denial of export privileges is suspended, and any conditions of probation; and (4) whether any or all outstanding licenses issued under the EAR to the person(s) named in the denial order or in which such person(s) has an interest, are suspended or revoked.

(b) *Standard denial order terms.* The following are the standard terms for imposing periods of export denial. Some orders also contain other terms, such as those that impose civil penalties, or that suspend all or part of the penalties or period of denial.

''It is therefore ordered:

First, that [the denied person(s)] may not, directly or indirectly, participate in any way in any transaction involving any commodity, software or technology (hereinafter collectively referred to as ''item'') exported or to be exported from the United States that is subject to the Export Administration Regulations (EAR), or in any other activity subject to the EAR, including, but not limited to:

A. Applying for, obtaining, or using any license, License Exception, or export control document;

B. Carrying on negotiations concerning, or ordering, buying, receiving, using, selling, delivering, storing, disposing of, forwarding, transporting, financing, or otherwise servicing in any way, any transaction involving any item exported or to be exported from the United States that is subject to the EAR, or in any other activity subject to the EAR; or

C. Benefiting in any way from any transaction involving any item exported or to be exported from the United States that is subject to the EAR, or in any other activity subject to the EAR.

Second, that no person may, directly or indirectly, do any of the following:

A. Export or reexport to or on behalf of the denied person any item subject to the EAR;

B. Take any action that facilitates the acquisition or attempted acquisition by a denied person of the ownership, possession, or control of any item subject to the EAR that has been or will be exported from the United States, including financing or other support activities related to a transaction whereby a denied person acquires or attempts to acquire such ownership, possession or control;

C. Take any action to acquire from or to facilitate the acquisition or attempted acquisition from the denied person of any item subject to the EAR that has been exported from the United States;

D. Obtain from the denied person in the United States any item subject to the EAR with knowledge or reason to know that the item will be, or is intended to be, exported from the United States; or

E. Engage in any transaction to service any item subject to the EAR that has been or will be exported from the United States and which is owned, possessed or controlled by a denied person, or service any item, of whatever origin, that is owned, possessed or controlled by a denied person if such service involves the use of any item subject to the EAR that has been or will be exported from the United States. For purposes of this paragraph, servicing means installation, maintenance, repair, modification or testing.

Third, that, after notice and opportunity for comment as provided in §766.23 of the EAR, any person, firm, corporation, or business organization related to the denied person by affiliation, ownership, control, or position of responsibility in the conduct of trade or related services may also be made subject to the provisions of this order.

This order, which constitutes the final agency action in this matter, is effective [DATE].''

[61 FR 12902, Mar. 25, 1996, as amended at 67 FR 54953, Aug. 27, 2002; 70 FR 8720, Feb. 23, 2005; 78 FR 22727, Apr. 16, 2013]

PART 766—ADMINISTRATIVE ENFORCEMENT PROCEEDINGS

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SUPPLEMENT NO. 1 TO PART 766—GUIDANCE ON CHARGING AND PENALTY DETERMINATIONS IN SETTLEMENT OF ADMINISTRATIVE ENFORCEMENT CASES

SUPPLEMENT NO. 2 TO PART 766—GUIDANCE ON CHARGING AND PENALTY DETERMINATIONS IN SETTLEMENT OF ADMINISTRATIVE ENFORCEMENT CASES INVOLVING ANTIBOYCOTT MATTERS

AUTHORITY: 50 U.S.C. 4601 *et seq.;* 50 U.S.C. 1701 *et seq.;* E.O. 13222, 66 FR 44025, 3 CFR, 2001 Comp., p. 783; Notice of August 4, 2016, 81 FR 52587 (August 8, 2016).

SOURCE: 61 FR 12907, Mar. 25, 1996, unless otherwise noted.

§ 766.1 Scope.

In this part, references to the EAR are references to 15 CFR chapter VII, subchapter C. This part describes the procedures for imposing administrative sanctions for violations of the Export Administration Act of 1979, as amended (the EAA), the Export Administration Regulations (EAR), or any order, license or authorization issued thereunder. Parts 760 and 764 of the EAR specify those actions that constitute violations, and part 764 describes the sanctions that apply. In addition to describing the procedures for imposing sanctions, this part describes the procedures for imposing temporary denial orders to prevent imminent violations of the EAA, the EAR, or any order, license or authorization issued thereunder. This part also describes the procedures for taking the discretionary protective administrative action of denying the export privileges of persons who have been convicted of violating any of the statutes, including the EAA, listed in section 11(h) of the EAA. Nothing in this part shall be construed as applying to or limiting other administrative or enforcement action relating to the EAA or the EAR, including the exercise of any investigative authorities conferred by the EAA. This part does not confer any procedural rights or impose any requirements based on the Administrative Procedure Act for proceedings charging violations under the EAA, except as expressly provided for in this part.

§ 766.2 Definitions.

As used in this part, the following definitions apply:

Administrative law judge. The person authorized to conduct hearings in administrative enforcement proceedings brought under the EAA or to hear appeals from the imposition of temporary denial orders. The term ''judge'' may be used for brevity when it is clear that the reference is to the administrative law judge.

Assistant Secretary. The Assistant Secretary for Export Enforcement, Bureau of Industry and Security.

Bureau of Industry and Security (BIS). Bureau of Industry and Security, U.S. Department of Commerce (formerly the Bureau of Export Administration) and all of its component units, including, in particular for purposes of this part, the Office of Antiboycott Compliance, the Office of Export Enforcement, and the Office of Exporter Services.

Final decision. A decision or order assessing a civil penalty, denial of export privileges or other sanction, or otherwise disposing of or dismissing a case, which is not subject to further review under this part, but which is subject to collection proceedings or judicial review in an appropriate Federal district court as authorized by law.

Initial decision. A decision of the administrative law judge in proceedings involving violations relating to part 760 of the EAR, which is subject to appellate review by the Under Secretary of Commerce for Industry and Security, but which becomes the final decision in the absence of such an appeal.

Party. BIS and any person named as a respondent under this part.

Recommended decision. A decision of the administrative law judge in proceedings involving violations other than those relating to part 760 of the EAR, which is subject to review by the Under Secretary of Commerce for Industry and Security, who issues a written order affirming, modifying or vacating the recommended decision.

Respondent. Any person named as the subject of a charging letter, proposed charging letter, temporary denial order, or other order proposed or issued under this part.

Under Secretary. The Under Secretary for Industry and Security, United States Department of Commerce.

[61 FR 12907, Mar. 25, 1996, as amended at 67 FR 20631, Apr. 26, 2002; 70 FR 8250, Feb. 18, 2005]

§ 766.3 Institution of administrative enforcement proceedings.

(a) *Charging letters*. The Director of the Office of Export Enforcement (OEE) or the Director of the Office of Antiboycott Compliance (OAC), as appropriate, or such other Department of Commerce official as may be designated by the Assistant Secretary of

Commerce for Export Enforcement, may begin administrative enforcement proceedings under this part by issuing a charging letter in the name of BIS. Supplements nos. 1 and 2 to this part describe how BIS typically exercises its discretion regarding the issuance of charging letters. The charging letter shall constitute the formal complaint and will state that there is reason to believe that a violation of the EAA, the EAR, or any order, license or authorization issued thereunder, has occurred. It will set forth the essential facts about the alleged violation, refer to the specific regulatory or other provisions involved, and give notice of the sanctions available under part 764 of the EAR. The charging letter will inform the respondent that failure to answer the charges as provided in § 766.6 of this part will be treated as a default under § 766.7 of this part, that the respondent is entitled to a hearing if a written demand for one is requested with the answer, and that the respondent may be represented by counsel, or by other authorized representative who has a power of attorney to represent the respondent. A copy of the charging letter shall be filed with the administrative law judge, which filing shall toll the running of the applicable statute of limitations. Charging letters may be amended or supplemented at any time before an answer is filed, or, with permission of the administrative law judge, afterwards. BIS may unilaterally withdraw charging letters at any time, by notifying the respondent and the administrative law judge.

(b) *Notice of issuance of charging letter instituting administrative enforcement proceeding.* A respondent shall be notified of the issuance of a charging letter, or any amendment or supplement thereto:

(1) By sending a copy by registered or certified mail or by express mail or commercial courier or delivery service addressed to the respondent at the respondent's last known address;

(2) By leaving a copy with the respondent or with an officer, a managing or general agent, or any other agent authorized by appointment or by law to receive service of process for the respondent; or

(3) By leaving a copy with a person of suitable age and discretion who resides at the respondent's last known dwelling.

(4) Delivery of a copy of the charging letter, if made in the manner described in paragraph (b)(2) or (3) of this section, shall be evidenced by a certificate of service signed by the person making such service, stating the method of service and the identity of the person with whom the charging letter was left. The certificate of service shall be filed with the administrative law judge.

(c) The date of service of notice of the issuance of a charging letter instituting an administrative enforcement proceeding, or service of notice of the issuance of a supplement or amendment to a charging letter, is the date of its delivery, or of its attempted delivery, by any means described in paragraph (b)(1) of this section.

[61 FR 12907, Mar. 25, 1996, as amended at 69 FR 7870, Feb. 20, 2004; 72 FR 39005, July 17, 2007; 78 FR 48606, Aug. 9, 2013]

§ 766.4 Representation.

A respondent individual may appear and participate in person, a corporation by a duly authorized officer or employee, and a partnership by a partner. If a respondent is represented by counsel, counsel shall be a member in good standing of the bar of any State, Commonwealth or Territory of the United States, or of the District of Columbia, or be licensed to practice law in the country in which counsel resides if not the United States. A respondent personally, or through counsel or other representative, shall file a notice of appearance with the administrative law judge. BIS will be represented by the Office of Chief Counsel for Industry and Security, U.S. Department of Commerce.

[61 FR 12907, Mar. 25, 1996, as amended at 67 FR 45633, July 10, 2002]

§ 766.5 Filing and service of papers other than charging letter.

(a) *Filing.* All papers to be filed shall be addressed to EAR Administrative Enforcement Proceedings, U.S. Coast Guard, ALJ Docketing Center, 40 S. Gay Street, Baltimore, Maryland, 21202–4022, or such other place as the

administrative law judge may designate. Filing by United States mail, first class postage prepaid, by express or equivalent parcel delivery service, or by hand delivery, is acceptable. Filing by mail from a foreign country shall be by airmail. In addition, the administrative law judge may authorize filing of papers by facsimile or other electronic means, provided that a hard copy of any such paper is subsequently filed. A copy of each paper filed shall be simultaneously served on each party.

(b) *Service*. Service shall be made by personal delivery or by mailing one copy of each paper to each party in the proceeding. Service by delivery service or facsimile, in the manner set forth in paragraph (a) of this section, is acceptable. Service on BIS shall be addressed to the Chief Counsel for Industry and Security, Room H–3839, U.S. Department of Commerce, 14th Street and Constitution Avenue, N.W., Washington, D.C. 20230. Service on a respondent shall be to the address to which the charging letter was sent or to such other address as respondent may provide. When a party has appeared by counsel or other representative, service on counsel or other representative shall constitute service on that party.

(c) *Date*. The date of filing or service is the day when the papers are deposited in the mail or are delivered in person, by delivery service, or by facsimile.

(d) *Certificate of service*. A certificate of service signed by the party making service, stating the date and manner of service, shall accompany every paper, other than the charging letter, filed and served on parties.

(e) *Computing period of time*. In computing any period of time prescribed or allowed by this part or by order of the administrative law judge or the Under Secretary, the day of the act, event, or default from which the designated period of time begins to run is not to be included. The last day of the period so computed is to be included unless it is a Saturday, a Sunday, or a legal holiday (as defined in Rule 6(a) of the Federal Rules of Civil Procedure), in which case the period runs until the end of the next day which is neither a Saturday, a Sunday, nor a legal holiday. Intermediate Saturdays, Sundays, and legal holidays are excluded from the computation when the period of time prescribed or allowed is seven days or less.

[61 FR 12907, Mar. 25, 1996, as amended at 67 FR 45633, July 10, 2002; 70 FR 8250, Feb. 18, 2005]

§ 766.6 Answer and demand for hearing.

(a) *When to answer*. The respondent must answer the charging letter within 30 days after being served with notice of the issuance of a charging letter instituting an administrative enforcement proceeding, or within 30 days of notice of any supplement or amendment to a charging letter, unless time is extended under § 766.16 of this part.

(b) *Contents of answer*. The answer must be responsive to the charging letter and must fully set forth the nature of the respondent's defense or defenses. The answer must admit or deny specifically each separate allegation of the charging letter; if the respondent is without knowledge, the answer must so state and will operate as a denial. Failure to deny or controvert a particular allegation will be deemed an admission of that allegation. The answer must also set forth any additional or new matter the respondent believes supports a defense or claim of mitigation. Any defense or partial defense not specifically set forth in the answer shall be deemed waived, and evidence thereon may be refused, except for good cause shown.

(c) *Demand for hearing*. If the respondent desires a hearing, a written demand for one must be submitted with the answer. Any demand by BIS for a hearing must be filed with the administrative law judge within 30 days after service of the answer. Failure to make a timely written demand for a hearing shall be deemed a waiver of the party's right to a hearing, except for good cause shown. If no party demands a hearing, the matter will go forward in accordance with the procedures set forth in § 766.15 of this part.

(d) *English language required*. The answer, all other papers, and all documentary evidence must be submitted in English, or translations into English

must be filed and served at the same time.

§ 766.7 Default.

(a) *General*. Failure of the respondent to file an answer within the time provided constitutes a waiver of the respondent's right to appear and contest the allegations in the charging letter. In such event, the administrative law judge, on BIS's motion and without further notice to the respondent, shall find the facts to be as alleged in the charging letter and render an initial or recommended decision containing findings of fact and appropriate conclusions of law and issue or recommend an order imposing appropriate sanctions. The decision and order shall be subject to review by the Under Secretary in accordance with the applicable procedures set forth in § 766.21 or § 766.22 of this part.

(b) *Petition to set aside default*—(1) *Procedure*. Upon petition filed by a respondent against whom a default order has been issued, which petition is accompanied by an answer meeting the requirements of § 766.6(b) of this part, the Under Secretary may, after giving all parties an opportunity to comment, and for good cause shown, set aside the default and vacate the order entered thereon and remand the matter to the administrative law judge for further proceedings.

(2) *Time limits*. A petition under this section must be made within one year of the date of entry of the order which the petition seeks to have vacated.

§ 766.8 Summary decision.

At any time after a proceeding has been initiated, a party may move for a summary decision disposing of some or all of the issues. The administrative law judge may render an initial or recommended decision and issue or recommend an order if the entire record shows, as to the issue(s) under consideration:

(a) That there is no genuine issue as to any material fact; and

(b) That the moving party is entitled to a summary decision as a matter of law.

§ 766.9 Discovery.

(a) *General*. The parties are encouraged to engage in voluntary discovery regarding any matter, not privileged, which is relevant to the subject matter of the pending proceeding. The provisions of the Federal Rules of Civil Procedure relating to discovery apply to the extent consistent with this part and except as otherwise provided by the administrative law judge or by waiver or agreement of the parties. The administrative law judge may make any order which justice requires to protect a party or person from annoyance, embarrassment, oppression, or undue burden or expense. These orders may include limitations on the scope, method, time and place of discovery, and provisions for protecting the confidentiality of classified or otherwise sensitive information.

(b) *Interrogatories and requests for admission or production of documents*. A party may serve on any party interrogatories, requests for admission, or requests for production of documents for inspection and copying, and a party concerned may apply to the administrative law judge for such enforcement or protective order as that party deems warranted with respect to such discovery. The service of a discovery request shall be made at least 20 days before the scheduled date of the hearing unless the administrative law judge specifies a shorter time period. Copies of interrogatories, requests for admission and requests for production of documents and responses thereto shall be served on all parties, and a copy of the certificate of service shall be filed with the administrative law judge. Matters of fact or law of which admission is requested shall be deemed admitted unless, within a period designated in the request (at least 10 days after service, or within such additional time as the administrative law judge may allow), the party to whom the request is directed serves upon the requesting party a sworn statement either denying specifically the matters of which admission is requested or setting forth in detail the reasons why the party to whom the request is directed cannot truthfully either admit or deny such matters.

(c) *Depositions*. Upon application of a party and for good cause shown, the administrative law judge may order the taking of the testimony of any person by deposition and the production of specified documents or materials by the person at the deposition. The application shall state the purpose of the deposition and set forth the facts sought to be established through the deposition.

(d) *Enforcement*. The administrative law judge may order a party to answer designated questions, to produce specified documents or things or to take any other action in response to a proper discovery request. If a party does not comply with such an order, the administrative law judge may make a determination or enter any order in the proceeding as the judge deems reasonable and appropriate. The judge may strike related charges or defenses in whole or in part or may take particular facts relating to the discovery request to which the party failed or refused to respond as being established for purposes of the proceeding in accordance with the contentions of the party seeking discovery. In addition, enforcement by a district court of the United States may be sought under section 12(a) of the EAA.

§ 766.10 Subpoenas.

(a) *Issuance*. Upon the application of any party, supported by a satisfactory showing that there is substantial reason to believe that the evidence would not otherwise be available, the administrative law judge will issue subpoenas requiring the attendance and testimony of witnesses and the production of such books, records or other documentary or physical evidence for the purpose of the hearing, as the judge deems relevant and material to the proceedings, and reasonable in scope.

(b) *Service*. Subpoenas issued by the administrative law judge may be served in any of the methods set forth in § 766.5(b) of this part.

(c) *Timing*. Applications for subpoenas must be submitted at least 10 days before the scheduled hearing or deposition, unless the administrative law judge determines, for good cause shown, that extraordinary circumstances warrant a shorter time.

§ 766.11 Matter protected against disclosure.

(a) *Protective measures*. It is often necessary for BIS to receive and consider information and documents that are sensitive from the standpoint of national security, foreign policy, business confidentiality, or investigative concern, and that are to be protected against disclosure. Accordingly, and without limiting the discretion of the administrative law judge to give effect to any other applicable privilege, it is proper for the administrative law judge to limit discovery or introduction of evidence or to issue such protective or other orders as in the judge's judgment may be consistent with the objective of preventing undue disclosure of the sensitive documents or information. Where the administrative law judge determines that documents containing the sensitive matter need to be made available to a respondent to avoid prejudice, the judge may direct BIS to prepare an unclassified and nonsensitive summary or extract of the documents. The administrative law judge may compare the extract or summary with the original to ensure that it is supported by the source document and that it omits only so much as must remain classified or undisclosed. The summary or extract may be admitted as evidence in the record.

(b) *Arrangements for access*. If the administrative law judge determines that this procedure is unsatisfactory and that classified or otherwise sensitive matter must form part of the record in order to avoid prejudice to a party, the judge may provide the parties opportunity to make arrangements that permit a party or a representative to have access to such matter without compromising sensitive information. Such arrangements may include obtaining security clearances, obtaining a national interest determination under section 12(c) of the EAA, or giving counsel for a party access to sensitive information and documents subject to assurances against further disclosure, including a protective order, if necessary.

§ 766.12 Prehearing conference.

(a) The administrative law judge, on the judge's own motion or on request of

a party, may direct the parties to participate in a prehearing conference, either in person or by telephone, to consider:

(1) Simplification of issues;

(2) The necessity or desirability of amendments to pleadings;

(3) Obtaining stipulations of fact and of documents to avoid unnecessary proof; or

(4) Such other matters as may expedite the disposition of the proceedings.

(b) The administrative law judge may order the conference proceedings to be recorded electronically or taken by a reporter, transcribed and filed with the judge.

(c) If a prehearing conference is impracticable, the administrative law judge may direct the parties to correspond with the judge to achieve the purposes of such a conference.

(d) The administrative law judge will prepare a summary of any actions agreed on or taken pursuant to this section. The summary will include any written stipulations or agreements made by the parties.

§ 766.13 Hearings.

(a) *Scheduling*. The administrative law judge, by agreement with the parties or upon notice to all parties of not less than 30 days, will schedule a hearing. All hearings will be held in Washington, D.C., unless the administrative law judge determines, for good cause shown, that another location would better serve the interests of justice.

(b) *Hearing procedure*. Hearings will be conducted in a fair and impartial manner by the administrative law judge, who may limit attendance at any hearing or portion thereof to the parties, their representatives and witnesses if the judge deems this necessary or advisable in order to protect sensitive matter (see § 766.11 of this part) from improper disclosure. The rules of evidence prevailing in courts of law do not apply, and all evidentiary material deemed by the administrative law judge to be relevant and material to the proceeding and not unduly repetitious will be received and given appropriate weight.

(c) *Testimony and record*. Witnesses will testify under oath or affirmation. A verbatim record of the hearing and of any other oral proceedings will be taken by reporter or by electronic recording, transcribed and filed with the administrative law judge. A respondent may examine the transcript and may obtain a copy by paying any applicable costs. Upon such terms as the administrative law judge deems just, the judge may direct that the testimony of any person be taken by deposition and may admit an affidavit or declaration as evidence, provided that any affidavits or declarations have been filed and served on the parties sufficiently in advance of the hearing to permit a party to file and serve an objection thereto on the grounds that it is necessary that the affiant or declarant testify at the hearing and be subject to cross-examination.

(d) *Failure to appear*. If a party fails to appear in person or by counsel at a scheduled hearing, the hearing may nevertheless proceed, and that party's failure to appear will not affect the validity of the hearing or any proceedings or action taken thereafter.

§ 766.14 Interlocutory review of rulings.

(a) At the request of a party, or on the judge's own initiative, the administrative law judge may certify to the Under Secretary for review a ruling that does not finally dispose of a proceeding, if the administrative law judge determines that immediate review may hasten or facilitate the final disposition of the matter.

(b) Upon certification to the Under Secretary of the interlocutory ruling for review, the parties will have 10 days to file and serve briefs stating their positions, and five days to file and serve replies, following which the Under Secretary will decide the matter promptly.

§ 766.15 Proceeding without a hearing.

If the parties have waived a hearing, the case will be decided on the record by the administrative law judge. Proceeding without a hearing does not relieve the parties from the necessity of proving the facts supporting their

charges or defenses. Affidavits or declarations, depositions, admissions, answers to interrogatories and stipulations may supplement other documentary evidence in the record. The administrative law judge will give each party reasonable opportunity to file rebuttal evidence.

§ 766.16 Procedural stipulations; extension of time.

(a) *Procedural stipulations.* Unless otherwise ordered, a written stipulation agreed to by all parties and filed with the administrative law judge will modify any procedures established by this part.

(b) *Extension of time.* (1) The parties may extend any applicable time limitation, by stipulation filed with the administrative law judge before the time limitation expires.

(2) The administrative law judge may, on the judge's own initiative or upon application by any party, either before or after the expiration of any applicable time limitation, extend the time within which to file and serve an answer to a charging letter or do any other act required by this part.

§ 766.17 Decision of the administrative law judge.

(a) *Predecisional matters.* Except for default proceedings under § 766.7 of this part, the administrative law judge will give the parties reasonable opportunity to submit the following, which will be made a part of the record:

(1) Exceptions to any ruling by the judge or to the admissibility of evidence proffered at the hearing;

(2) Proposed findings of fact and conclusions of law;

(3) Supporting legal arguments for the exceptions and proposed findings and conclusions submitted; and

(4) A proposed order.

(b) *Decision and order.* After considering the entire record in the proceeding, the administrative law judge will issue a written decision.

(1) *Initial decision.* For proceedings charging violations relating to part 760 of the EAR, the decision rendered shall be an initial decision. The decision will include findings of fact, conclusions of law, and findings as to whether there has been a violation of the EAA, the EAR, or any order, license or authorization issued thereunder. If the administrative law judge finds that the evidence of record is insufficient to sustain a finding that a violation has occurred with respect to one or more charges, the judge shall order dismissal of the charges in whole or in part, as appropriate. If the administrative law judge finds that one or more violations have been committed, the judge may issue an order imposing administrative sanctions, as provided in part 764 of the EAR. The decision and order shall be served on each party, and shall become effective as the final decision of the Department 30 days after service, unless an appeal is filed in accordance with § 766.21 of this part.

(2) *Recommended decision.* For proceedings not involving violations relating to part 760 of the EAR, the decision rendered shall be a recommended decision. The decision will include recommended findings of fact, conclusions of law, and findings as to whether there has been a violation of the EAA, the EAR or any order, license or authorization issued thereunder. If the administrative law judge finds that the evidence of record is insufficient to sustain a recommended finding that a violation has occurred with respect to one or more charges, the judge shall recommend dismissal of any such charge. If the administrative law judge finds that one or more violations have been committed, the judge shall recommend an order imposing administrative sanctions, as provided in part 764 of the EAR, or such other action as the judge deems appropriate. The administrative law judge shall immediately certify the record, including the original copy of the recommended decision and order, to the Under Secretary for review in accordance with § 766.22 of this part. The administrative law judge shall also immediately serve the recommended decision on all parties. Because of the time limits established in the EAA for review by the Under Secretary, service upon parties shall be by personal delivery, express mail or other overnight carrier.

(c) *Suspension of sanctions.* Any order imposing administrative sanctions may provide for the suspension of the sanction imposed, in whole or in part

and on such terms of probation or other conditions as the administrative law judge or the Under Secretary may specify. Any suspension order may be modified or revoked by the signing official upon application of BIS showing a violation of the probationary terms or other conditions, after service on the respondent of notice of the application in accordance with the service provisions of § 766.3 of this part, and with such opportunity for response as the responsible signing official in his/her discretion may allow. A copy of any order modifying or revoking the suspension shall also be served on the respondent in accordance with the provisions of § 766.3 of this part.

(d) *Time for decision*. Administrative enforcement proceedings not involving violations relating to part 760 of the EAR shall be concluded, including review by the Under Secretary under § 766.22 of this part, within one year of the submission of a charging letter, unless the administrative law judge, for good cause shown, extends such period. The charging letter will be deemed to have been submitted to the administrative law judge on the date the respondent files an answer or on the date BIS files a motion for a default order pursuant to § 766.7(a) of this part, whichever occurs first.

§ 766.18 Settlement.

(a) *Cases may be settled before service of a charging letter*. In cases in which settlement is reached before service of a charging letter, a proposed charging letter will be prepared, and a settlement proposal consisting of a settlement agreement and order will be submitted to the Assistant Secretary for approval and signature. If the Assistant Secretary does not approve the proposal, he/she will notify the parties and the case will proceed as though no settlement proposal had been made. If the Assistant Secretary approves the proposal, he/she will issue an appropriate order, and no action will be required by the administrative law judge.

(b) *Cases may also be settled after service of a charging letter*. (1) If the case is pending before the administrative law judge, the judge shall stay the proceedings for a reasonable period of time, usually not to exceed 30 days, upon notification by the parties that they have entered into good faith settlement negotiations. The administrative law judge may, in his/her discretion, grant additional stays. If settlement is reached, a proposal will be submitted to the Assistant Secretary for approval and signature. If the Assistant Secretary approves the proposal, he/she will issue an appropriate order, and notify the administrative law judge that the case is withdrawn from adjudication. If the Assistant Secretary does not approve the proposal, he/she will notify the parties and the case will proceed to adjudication by the administrative law judge as though no settlement proposal had been made.

(2) If the case is pending before the Under Secretary under § 766.21 or § 766.22 of this part, the parties may submit a settlement proposal to the Under Secretary for approval and signature. If the Under Secretary approves the proposal, he/she will issue an appropriate order. If the Under Secretary does not approve the proposal, the case will proceed to final decision in accordance with § 766.21 or § 766.22 of this part, as appropriate.

(c) Any order disposing of a case by settlement may suspend the administrative sanction imposed, in whole or in part, on such terms of probation or other conditions as the signing official may specify. Any such suspension may be modified or revoked by the signing official, in accordance with the procedures set forth in § 766.17(c) of this part.

(d) Any respondent who agrees to an order imposing any administrative sanction does so solely for the purpose of resolving the claims in the administrative enforcement proceeding brought under this part. This reflects the fact that BIS has neither the authority nor the responsibility for instituting, conducting, settling, or otherwise disposing of criminal proceedings. That authority and responsibility are vested in the Attorney General and the Department of Justice.

(e) Cases that are settled may not be reopened or appealed.

(f) Supplements nos. 1 and 2 to this part describe how BIS typically exercises its discretion regarding the terms

under which it is willing to settle particular cases.

[61 FR 12907, Mar. 25, 1996, as amended at 69 FR 7870, Feb. 20, 2004; 72 FR 39006, July 17, 2007]

§ 766.19 Reopening.

The respondent may petition the administrative law judge within one year of the date of the final decision, except where the decision arises from a default judgment or from a settlement, to reopen an administrative enforcement proceeding to receive any relevant and material evidence which was unknown or unobtainable at the time the proceeding was held. The petition must include a summary of such evidence, the reasons why it is deemed relevant and material, and the reasons why it could not have been presented at the time the proceedings were held. The administrative law judge will grant or deny the petition after providing other parties reasonable opportunity to comment. If the proceeding is reopened, the administrative law judge may make such arrangements as the judge deems appropriate for receiving the new evidence and completing the record. The administrative law judge will then issue a new initial or recommended decision and order, and the case will proceed to final decision and order in accordance with § 766.21 or § 766.22 of this part, as appropriate.

§ 766.20 Record for decision and availability of documents.

(a) *General.* The transcript of hearings, exhibits, rulings, orders, all papers and requests filed in the proceedings and, for purposes of any appeal under § 766.21 of this part or review under § 766.22 of this part, the decision of the administrative law judge and such submissions as are provided for by §§ 766.21 and 766.22 of this part, will constitute the record and the exclusive basis for decision. When a case is settled after the service of a charging letter, the record will consist of any and all of the foregoing, as well as the settlement agreement and the order. When a case is settled before service of a charging letter, the record will consist of the proposed charging letter, the settlement agreement and the order.

(b) *Restricted access.* On the judge's own motion, or on the motion of any party, the administrative law judge may direct that there be a restricted access portion of the record for any material in the record to which public access is restricted by law or by the terms of a protective order entered in the proceedings. A party seeking to restrict access to any portion of the record is responsible for submitting, at the time specified in § 766.20(c)(2) of this part, a version of the document proposed for public availability that reflects the requested deletion. The restricted access portion of the record will be placed in a separate file and the file will be clearly marked to avoid improper disclosure and to identify it as a portion of the official record in the proceedings. The administrative law judge may act at any time to permit material that becomes declassified or unrestricted through passage of time to be transferred to the unrestricted access portion of the record.

(c) *Availability of documents*—(1) *Scope.* (i) For proceedings started on or after October 12, 1979, all charging letters, answers, initial and recommended decisions, and orders disposing of a case will be made available for public inspection in the BIS Freedom of Information Records Inspection Facility, U.S. Department of Commerce, Room H–6624, 14th Street and Pennsylvania Avenue, N.W., Washington, D.C. 20230. The complete record for decision, as defined in paragraphs (a) and (b) of this section will be made available on request. In addition, all decisions of the Under Secretary on appeal pursuant to § 766.22 of this part and those final orders providing for denial, suspension or revocation of export privileges shall be published in the FEDERAL REGISTER.

(ii) For proceedings started before October 12, 1979, the public availability of the record for decision will be governed by the applicable regulations in effect when the proceedings were begun.

(2) *Timing*—(i) *Antiboycott cases.* For matters relating to part 760 of the EAR, documents are available immediately upon filing, except for any portion of the record for which a request for segregation is made. Parties that seek to restrict access to any portion

of the record under paragraph (b) of this section must make such a request, together with the reasons supporting the claim of confidentiality, simultaneously with the submission of material for the record.

(ii) *Other cases.* In all other cases, documents will be available only after the final administrative disposition of the case. In these cases, parties desiring to restrict access to any portion of the record under paragraph (b) of this section must assert their claim of confidentiality, together with the reasons for supporting the claim, before the close of the proceeding.

§ 766.21 Appeals.

(a) *Grounds.* For proceedings charging violations relating to part 760 of the EAR, a party may appeal to the Under Secretary from an order disposing of a proceeding or an order denying a petition to set aside a default or a petition for reopening, on the grounds:

(1) That a necessary finding of fact is omitted, erroneous or unsupported by substantial evidence of record;

(2) That a necessary legal conclusion or finding is contrary to law;

(3) That prejudicial procedural error occurred, or

(4) That the decision or the extent of sanctions is arbitrary, capricious or an abuse of discretion. The appeal must specify the grounds on which the appeal is based and the provisions of the order from which the appeal is taken.

(b) *Filing of appeal.* An appeal from an order must be filed with the Office of the Under Secretary for Export Administration, Bureau of Industry and Security, U.S. Department of Commerce, Room H–3898, 14th Street and Constitution Avenue, NW., Washington, DC 20230, within 30 days after service of the order appealed from. If the Under Secretary cannot act on an appeal for any reason, the Under Secretary will designate another Department of Commerce official to receive and act on the appeal.

(c) *Effect of appeal.* The filing of an appeal shall not stay the operation of any order, unless the order by its express terms so provides or unless the Under Secretary, upon application by a party and with opportunity for response, grants a stay.

(d) *Appeal procedure.* The Under Secretary normally will not hold hearings or entertain oral argument on appeals. A full written statement in support of the appeal must be filed with the appeal and be simultaneously served on all parties, who shall have 30 days from service to file a reply. At his/her discretion, the Under Secretary may accept new submissions, but will not ordinarily accept those submissions filed more than 30 days after the filing of the reply to the appellant's first submission.

(e) *Decisions.* The decision will be in writing and will be accompanied by an order signed by the Under Secretary giving effect to the decision. The order may either dispose of the case by affirming, modifying or reversing the order of the administrative law judge or may refer the case back to the administrative law judge for further proceedings.

§ 766.22 Review by Under Secretary.

(a) *Recommended decision.* For proceedings not involving violations relating to part 760 of the EAR, the administrative law judge shall immediately refer the recommended decision and order to the Under Secretary. Because of the time limits provided under the EAA for review by the Under Secretary, service of the recommended decision and order on the parties, all papers filed by the parties in response, and the final decision of the Under Secretary must be by personal delivery, facsimile, express mail or other overnight carrier. If the Under Secretary cannot act on a recommended decision and order for any reason, the Under Secretary will designate another Department of Commerce official to receive and act on the recommendation.

(b) *Submissions by parties.* Parties shall have 12 days from the date of issuance of the recommended decision and order in which to submit simultaneous responses. Parties thereafter shall have eight days from receipt of any response(s) in which to submit replies. Any response or reply must be received within the time specified by the Under Secretary.

(c) *Final decision.* Within 30 days after receipt of the recommended decision and order, the Under Secretary shall

issue a written order affirming, modifying or vacating the recommended decision and order of the administrative law judge. If he/she vacates the recommended decision and order, the Under Secretary may refer the case back to the administrative law judge for further proceedings. Because of the time limits, the Under Secretary's review will ordinarily be limited to the written record for decision, including the transcript of any hearing, and any submissions by the parties concerning the recommended decision.

(d) *Delivery*. The final decision and implementing order shall be served on the parties and will be publicly available in accordance with § 766.20 of this part.

[61 FR 12907, Mar. 25, 1996, as amended at 75 FR 33683, June 15, 2010]

§ 766.23 Related persons.

(a) *General*. In order to prevent evasion, certain types of orders under this part may be made applicable not only to the respondent, but also to other persons then or thereafter related to the respondent by ownership, control, position of responsibility, affiliation, or other connection in the conduct of trade or business. Orders that may be made applicable to related persons include those that deny or affect export privileges, including temporary denial orders, and those that exclude a respondent from practice before BIS.

(b) *Procedures*. If BIS has reason to believe that a person is related to the respondent and that an order that is being sought or that has been issued should be made applicable to that person in order to prevent evasion of the order, BIS shall, except in an *ex parte* proceeding under § 766.24(a) of this part, give that person notice in accordance with § 766.5(b) of this part and an opportunity to oppose such action. If the official authorized to issue the order against the respondent finds that the order should be made applicable to that person in order to prevent evasion of the order that official shall issue or amend the order accordingly.

(c) *Appeals*. Any person named by BIS in an order as related to the respondent may appeal that action. The sole issues to be raised and ruled on in any such appeal are whether the person so named is related to the respondent and whether the order is justified in order to prevent evasion.

(1) A person named as related to the respondent in an order issued pursuant to § 766.25 may file an appeal with the Under Secretary for Industry and Security pursuant to part 756 of the EAR.

(2) A person named as related to the respondent in an order issued pursuant to other provisions of this part may file an appeal with the administrative law judge.

(i) If the order made applicable to the related person is for a violation related to part 760 of the EAR, the related person may file an appeal with the administrative law judge. The related person may appeal the initial decision and order of the administrative law judge to the Under Secretary in accordance with the procedures set forth in § 766.21.

(ii) If the order made applicable to the related person is issued pursuant to § 766.24 of this part to prevent an imminent violation, the recommended decision and order of the administrative law judge shall be reviewed by the Under Secretary in accordance with the procedures set forth in § 766.24(e) of this part.

(iii) If the order made applicable to the related person is for a violation of the EAR not related to part 760 of the EAR and not issued pursuant to § 766.24 of this part, the recommended decision and order of the administrative law judge shall be reviewed by the Under Secretary in accordance with the procedures set forth in § 766.22 of this part.

[61 FR 12907, Mar. 25, 1996, as amended at 71 FR 27605, May 12, 2006]

§ 766.24 Temporary denials.

(a) *General*. The procedures in this section apply to temporary denial orders issued on or after July 12, 1985. For temporary denial orders issued on or before July 11, 1985, the proceedings will be governed by the applicable regulations in effect at the time the temporary denial orders were issued. Without limiting any other action BIS may take under the EAR with respect to any application, order, license or authorization issued under the EAA, BIS may ask the Assistant Secretary to issue a temporary denial order on an *ex*

parte basis to prevent an imminent violation, as defined in this section, of the EAA, the EAR, or any order, license or authorization issued thereunder. The temporary denial order will deny export privileges to any person named in the order as provided for in § 764.3(a)(2) of the EAR.

(b) *Issuance*. (1) The Assistant Secretary may issue an order temporarily denying to a person any or all of the export privileges described in part 764 of the EAR upon a showing by BIS that the order is necessary in the public interest to prevent an imminent violation of the EAA, the EAR, or any order, license or authorization issued thereunder.

(2) The temporary denial order shall define the imminent violation and state why it was issued without a hearing. Because all denial orders are public, the description of the imminent violation and the reasons for proceeding on an *ex parte* basis set forth therein shall be stated in a manner that is consistent with national security, foreign policy, business confidentiality, and investigative concerns.

(3) A violation may be ''imminent'' either in time or in degree of likelihood. To establish grounds for the temporary denial order, BIS may show either that a violation is about to occur, or that the general circumstances of the matter under investigation or case under criminal or administrative charges demonstrate a likelihood of future violations. To indicate the likelihood of future violations, BIS may show that the violation under investigation or charges is significant, deliberate, covert and/or likely to occur again, rather than technical or negligent, and that it is appropriate to give notice to companies in the United States and abroad to cease dealing with the person in U.S.-origin items in order to reduce the likelihood that a person under investigation or charges continues to export or acquire abroad such items, risking subsequent disposition contrary to export control requirements. Lack of information establishing the precise time a violation may occur does not preclude a finding that a violation is imminent, so long as there is sufficient reason to believe the likelihood of a violation.

(4) The temporary denial order will be issued for a period not exceeding 180 days.

(5) Notice of the issuance of a temporary denial order on an *ex parte* basis shall be given in accordance with § 766.5(b) of this part upon issuance.

(c) *Related persons*. A temporary denial order may be made applicable to related persons in accordance with § 766.23 of this part.

(d) *Renewal*. (1) If, no later than 20 days before the expiration date of a temporary denial order, BIS believes that renewal of the denial order is necessary in the public interest to prevent an imminent violation, BIS may file a written request setting forth the basis for its belief, including any additional or changed circumstances, asking that the Assistant Secretary renew the temporary denial order, with modifications, if any are appropriate, for an additional period not exceeding 180 days. BIS's request shall be delivered to the respondent, or any agent designated for this purpose, in accordance with § 766.5(b) of this part, which will constitute notice of the renewal application.

(2) *Non-resident respondents*. To facilitate timely notice of renewal requests, a respondent not a resident of the United States may designate a local agent for this purpose and provide written notification of such designation to BIS in the manner set forth in § 766.5(b) of this part.

(3) *Hearing*. (i) A respondent may oppose renewal of a temporary denial order by filing with the Assistant Secretary a written submission, supported by appropriate evidence, to be received not later than seven days before the expiration date of such order. For good cause shown, the Assistant Secretary may consider submissions received not later than five days before the expiration date. The Assistant Secretary ordinarily will not allow discovery; however, for good cause shown in respondent's submission, he/she may allow the parties to take limited discovery, consisting of a request for production of documents. If requested by the respondent in the written submission, the Assistant Secretary shall hold a hearing on the renewal application. The hearing shall be on the record and

ordinarily will consist only of oral argument. The only issue to be considered on BIS's request for renewal is whether the temporary denial order should be continued to prevent an imminent violation as defined herein.

(ii) Any person designated as a related person may not oppose the issuance or renewal of the temporary denial order, but may file an appeal in accordance with § 766.23(c) of this part.

(iii) If no written opposition to BIS's renewal request is received within the specified time, the Assistant Secretary may issue the order renewing the temporary denial order without a hearing.

(4) A temporary denial order may be renewed more than once.

(e) *Appeals*—(1) *Filing*. (i) A respondent may, at any time, file an appeal of the initial or renewed temporary denial order with the administrative law judge.

(ii) The filing of an appeal shall stay neither the effectiveness of the temporary denial order nor any application for renewal, nor will it operate to bar the Assistant Secretary's consideration of any renewal application.

(2) *Grounds*. A respondent may appeal on the grounds that the finding that the order is necessary in the public interest to prevent an imminent violation is unsupported.

(3) *Appeal procedure*. A full written statement in support of the appeal must be filed with the appeal together with appropriate evidence, and be simultaneously served on BIS, which shall have seven days from receipt to file a reply. Service on the administrative law judge shall be addressed to U.S. Coast Guard, ALJ Docketing Center, 40 S. Gay Street, Baltimore, Maryland, 21202–4022. Service on BIS shall be as set forth in § 766.5(b) of this part. The administrative law judge normally will not hold hearings or entertain oral argument on appeals.

(4) *Recommended decision*. Within 10 working days after an appeal is filed, the administrative law judge shall submit a recommended decision to the Under Secretary, and serve copies on the parties, recommending whether the issuance or the renewal of the temporary denial order should be affirmed, modified or vacated.

(5) *Final decision*. Within five working days after receipt of the recommended decision, the Under Secretary shall issue a written order accepting, rejecting or modifying the recommended decision. Because of the time constraints, the Under Secretary's review will ordinarily be limited to the written record for decision, including the transcript of any hearing. The issuance or renewal of the temporary denial order shall be affirmed only if there is reason to believe that the temporary denial order is required in the public interest to prevent an imminent violation of the EAA, the EAR, or any order, license or other authorization issued under the EAA.

(f) *Delivery*. A copy of any temporary denial order issued or renewed and any final decision on appeal shall be published in the FEDERAL REGISTER and shall be delivered to BIS and to the respondent, or any agent designated for this purpose, and to any related person in the same manner as provided in § 766.5 of this part for filing for papers other than a charging letter.

[61 FR 12907, Mar. 25, 1996, as amended at 71 FR 14099, Mar. 21, 2006; 71 FR 27606, May 12, 2006; 75 FR 33683, June 15, 2010]

§ 766.25 Administrative action denying export privileges.

(a) *General*. The Director of the Office of Exporter Services, in consultation with the Director of the Office of Export Enforcement, may deny the export privileges of any person who has been convicted of a violation of the EAA, the EAR, or any order, license, or authorization issued thereunder; any regulation, license or order issued under the International Emergency Economic Powers Act (50 U.S.C. 1701–1706); 18 U.S.C. 793, 794 or 798; section 4(b) of the Internal Security Act of 1950 (50 U.S.C. 783(b)), or section 38 of the Arms Export Control Act (22 U.S.C. 2778).

(b) *Procedure*. Upon notification that a person has been convicted of a violation of one or more of the provisions specified in paragraph (a) of this section, the Director of the Office of Exporter Services, in consultation with the Director of the Office of Export Enforcement, will determine whether to deny such person export privileges, including but not limited to applying for,

obtaining, or using any license, License Exception, or export control document; or participating in or benefiting in any way from any export or export-related transaction subject to the EAR. Before taking action to deny a person export privileges under this section, the Director of the Office of Exporter Services will provide the person written notice of the proposed action and an opportunity to comment through a written submission, unless exceptional circumstances exist. In reviewing the response, the Director of the Office of Exporter Services will consider any relevant or mitigating evidence why these privileges should not be denied. Upon final determination, the Director of the Office of Exporter Services will notify by letter each person denied export privileges under this section.

(c) *Criteria*. In determining whether and for how long to deny U.S. export privileges to a person previously convicted of one or more of the statutes set forth in paragraph (a) of this section, the Director of the Office of Exporter Services may take into consideration any relevant information, including, but not limited to, the seriousness of the offense involved in the criminal prosecution, the nature and duration of the criminal sanctions imposed, and whether the person has undertaken any corrective measures.

(d) *Duration*. Any denial of export privileges under this section shall not exceed 10 years from the date of the conviction of the person who is subject to the denial.

(e) *Effect*. Any person denied export privileges under this section will be considered a ''person denied export privileges'' for purposes of §736.2(b)(4) (General Prohibition 4—Engage in actions prohibited by a denial order) and §764.2(k) of the EAR.

(f) *Publication*. The orders denying export privileges under this section are published in the FEDERAL REGISTER when issued, and, for the convenience of the public, information about those orders may be included in compilations maintained by BIS on a Web site and as a supplement to the unofficial edition of the EAR available by subscription from the Government Printing Office.

(g) *Appeal*. An appeal of an action under this section will be pursuant to part 756 of the EAR.

(h) *Applicability to related person*. The Director of the Office of Exporter Services, in consultation with the Director of the Office of Export Enforcement, may take action in accordance with §766.23 of this part to make applicable to related persons an order that is being sought or that has been issued under this section.

[61 FR 12907, Mar. 25, 1996, as amended at 65 FR 14863, Mar. 20, 2000; 67 FR 54953, Aug. 27, 2002]

SUPPLEMENT NO. 1 TO PART 766—GUIDANCE ON CHARGING AND PENALTY DETERMINATIONS IN SETTLEMENT OF ADMINISTRATIVE ENFORCEMENT CASES

INTRODUCTION

This Supplement describes how the Office of Export Enforcement (OEE) at the Bureau of Industry and Security (BIS) responds to apparent violations of the Export Administration Regulations (EAR) and, specifically, how OEE makes penalty determinations in the settlement of civil administrative enforcement cases under part 764 of the EAR. This guidance does not apply to enforcement cases for violations under part 760 of the EAR—Restrictive Trade Practices or Boycotts. Supplement No. 2 to part 766 continues to apply to civil administrative enforcement cases involving part 760 violations.

Because many administrative enforcement cases are resolved through settlement, the process of settling such cases is integral to the enforcement program. OEE carefully considers each settlement offer in light of the facts and circumstances of the case, relevant precedent, and OEE's objective to achieve in each case an appropriate penalty and deterrent effect. In settlement negotiations, OEE encourages parties to provide, and will give serious consideration to, information and evidence that parties believe are relevant to the application of this guidance to their cases, to whether a violation has in fact occurred, or to whether they have an affirmative defense to potential charges.

This guidance does not confer any right or impose any obligation regarding what penalties OEE may seek in litigating a case or what posture OEE may take toward settling a case. Parties do not have a right to a settlement offer or particular settlement terms from OEE, regardless of settlement positions OEE has taken in other cases.

I. DEFINITIONS

NOTE: See also: Definitions contained in §766.2 of the EAR.

Apparent violation means conduct that constitutes an actual or possible violation of the Export Administration Act of 1979, the International Emergency Economic Powers Act, the EAR, other statutes administered or enforced by BIS, as well as executive orders, regulations, orders, directives, or licenses issued pursuant thereto.

Applicable schedule amount means:

1. $1,000 with respect to a transaction valued at less than $1,000;
2. $10,000 with respect to a transaction valued at $1,000 or more but less than $10,000;
3. $25,000 with respect to a transaction valued at $10,000 or more but less than $25,000;
4. $50,000 with respect to a transaction valued at $25,000 or more but less than $50,000;
5. $100,000 with respect to a transaction valued at $50,000 or more but less than $100,000;
6. $170,000 with respect to a transaction valued at $100,000 or more but less than $170,000;
7. $250,000 with respect to a transaction valued at $170,000 or more.

Note to definition of applicable schedule amount. The applicable schedule amount may be adjusted in accordance with U.S. law, *e.g.*, the Federal Civil Penalties Inflation Adjustment Act Improvements Act of 2015 (Pub. L. 114–74, sec. 701).

Transaction value means the U.S. dollar value of a subject transaction, as demonstrated by commercial invoices, bills of lading, signed Customs declarations, AES filings or similar documents. Where the transaction value is not otherwise ascertainable, OEE may consider the market value of the items that were the subject of the transaction and/or the economic benefit derived by the Respondent from the transaction, in determining transaction value. In situations involving a lease of U.S.-origin items, the transaction value will generally be the value of the lease. For purposes of these Guidelines, ''transaction value'' will not necessarily have the same meaning, nor be applied in the same manner, as that term is used for import valuation purposes at 19 CFR 152.103.

Voluntary self-disclosure means the self-initiated notification to OEE of an apparent violation as described in and satisfying the requirements of §764.5 of the EAR.

II. TYPES OF RESPONSES TO APPARENT VIOLATIONS

OEE, among other responsibilities, investigates apparent violations of the EAR, or any order, license or authorization issued thereunder. When it appears that such a violation may have occurred, OEE investigations may lead to no action, a warning letter or an administrative enforcement proceeding. A violation may also be referred to the Department of Justice for criminal prosecution. The type of enforcement action initiated by OEE will depend primarily on the nature of the violation. Depending on the facts and circumstances of a particular case, an OEE investigation may lead to one or more of the following actions:

A. *No Action*. If OEE determines that there is insufficient evidence to conclude that a violation has occurred, determines that a violation did not occur and/or, based on an analysis of the Factors outlined in Section III of these Guidelines, concludes that the conduct does not rise to a level warranting an administrative response, then no action will be taken. In such circumstances, if the investigation was initiated by a voluntary self-disclosure (VSD), OEE will issue a letter (a no-action letter) indicating that the investigation is being closed with no administrative action being taken. OEE may issue a no-action letter in non-voluntarily disclosed cases at its discretion. A no-action determination by OEE represents OEE's disposition of the apparent violation, unless OEE later learns of additional information regarding the same or similar transactions or other relevant facts. A no-action letter is not a final agency action with respect to whether a violation occurred.

B. *Warning Letter*. If OEE determines that a violation may have occurred but a civil penalty is not warranted under the circumstances, and believes that the underlying conduct could lead to a violation in other circumstances and/or that a Respondent does not appear to be exercising due diligence in assuring compliance with the statutes, executive orders, and regulations that OEE enforces, OEE may issue a warning letter. A warning letter may convey OEE's concerns about the underlying conduct and/or the Respondent's compliance policies, practices, and/or procedures. It may also address an apparent violation of a technical nature, where good faith efforts to comply with the law and cooperate with the investigation are present, or where the investigation commenced as a result of a voluntary self-disclosure satisfying the requirements of §764.5 of the EAR, provided that no aggravating factors exist. In the exercise of its discretion, OEE may determine in certain instances that issuing a warning letter, instead of bringing an administrative enforcement proceeding, will achieve the appropriate enforcement result. A warning letter will describe the apparent violation and urge compliance. A warning letter represents OEE's enforcement response to and disposition of the apparent violation, unless OEE later learns of additional information concerning the same or similar apparent violations. A warning letter does not constitute a final agency action

with respect to whether a violation has occurred.

C. *Administrative enforcement case*. If OEE determines that a violation has occurred and, based on an analysis of the Factors outlined in Section III of these Guidelines, concludes that the Respondent's conduct warrants a civil monetary penalty or other administrative sanctions, OEE may initiate an administrative enforcement case. The issuance of a charging letter under §766.3 of the EAR initiates an administrative enforcement proceeding. Charging letters may be issued when there is reason to believe that a violation has occurred. Cases may be settled before or after the issuance of a charging letter. *See* §766.18 of the EAR. OEE may prepare a proposed charging letter which could result in a case being settled before issuance of an actual charging letter. *See* §766.18(a) of the EAR. If a case does not settle before issuance of a charging letter and the case proceeds to adjudication, the resulting charging letter may include more violations than alleged in the proposed charging letter, and the civil monetary penalty amounts assessed may be greater that those provided for in Section IV of these Guidelines. Civil monetary penalty amounts for cases settled before the issuance of a charging letter will be determined as discussed in Section IV of these Guidelines. A civil monetary penalty may be assessed for each violation. The maximum amount of such a penalty per violation is stated in §764.3(a)(1), subject to adjustments under the Federal Civil Penalties Inflation Adjustment Act of 1990 (28 U.S.C. 2461), which are codified at 15 CFR 6.4. OEE will afford the Respondent an opportunity to respond to a proposed charging letter. Responses to charging letters following the institution of an enforcement proceeding under part 766 of the EAR are governed by §766.3 of the EAR.

D. *Civil Monetary Penalty*. OEE may seek a civil monetary penalty if OEE determines that a violation has occurred and, based on the Factors outlined in Section III of these Guidelines, concludes that the Respondent's conduct warrants a monetary penalty. Section IV of these Guidelines will guide the agency's exercise of its discretion in determining civil monetary penalty amounts.

E. *Criminal Referral*. In appropriate circumstances, OEE may refer the matter to the Department of Justice for criminal prosecution. Apparent violations referred for criminal prosecution also may be subject to a civil monetary penalty and/or other administrative sanctions or action by BIS.

F. *Other Administrative Sanctions or Actions*. In addition to or in lieu of other administrative actions, OEE may seek sanctions listed in §764.3 of the EAR. BIS may also take the following administrative actions, among other actions, in response to an apparent violation:

License Revision, Suspension or Revocation. BIS authorizations to engage in a transaction pursuant to a license or license exception may be revised, suspended or revoked in response to an apparent violation as provided in §§740.2(b) and 750.8 of the EAR.

Denial of Export Privileges. An order denying a Respondent's export privileges may be issued, as described in §764.3(a)(2) of the EAR. Such a denial may extend to all export privileges, as set out in the standard terms for denial orders in Supplement No. 1 to part 764 of the EAR, or may be narrower in scope (*e.g.*, limited to exports of specified items or to specified destinations or customers). A denial order may also be suspended in whole or in part in accordance with §766.18(c).

Exclusion from practice. Under §764.3(a)(3) of the EAR, any person acting as an attorney, accountant, consultant, freight forwarder or other person who acts in a representative capacity in any matter before BIS may be excluded from practicing before BIS.

Training and Audit Requirements. In appropriate cases, OEE may require as part of a settlement agreement that the Respondent provide training to employees as part of its compliance program, adopt other compliance measures, and/or be subject to internal or independent audits by a qualified outside person. In those cases, OEE may suspend or defer a portion or all of the penalty amount if the suspended amount is applied to comply with such requirements.

G. *Suspension or Deferral*. In appropriate cases, payment of a civil monetary penalty may be suspended or deferred during a probationary period under a settlement agreement and order. If the terms of the settlement agreement or order are not adhered to by the Respondent, then suspension or deferral may be revoked and the full amount of the penalty imposed. *See* §764.3(a)(1)(iii) of the EAR. In determining whether suspension or deferral is appropriate, OEE may consider, for example, whether the Respondent has demonstrated a limited ability to pay a penalty that would be appropriate for such violations, so that suspended or deferred payment can be expected to have sufficient deterrent value, and whether, in light of all of the circumstances, such suspension or deferral is necessary to make the financial impact of the penalty consistent with the impact of penalties on other parties who committed similar violations. OEE may also take into account when determining whether or not to suspend or defer a civil penalty whether the Respondent will apply a portion or all of the funds suspended or deferred to audit, compliance, or training that may be required under a settlement agreement and order, or the matter is part of a ''global settlement'' as discussed in more detail below.

III. FACTORS AFFECTING ADMINISTRATIVE SANCTIONS

Many apparent violations are isolated occurrences, the result of a good-faith misinterpretation, or involve no more than simple negligence or carelessness. In such instances, absent the presence of aggravating factors, the matter frequently may be addressed with a no action determination letter or, if deemed necessary, a warning letter. Where the imposition of an administrative penalty is deemed appropriate, as a general matter, OEE will consider some or all of the following Factors in determining the appropriate sanctions in administrative cases, including the appropriate amount of a civil monetary penalty where such a penalty is sought and is imposed as part of a settlement agreement and order. These factors describe circumstances that, in OEE's experience, are commonly relevant to penalty determinations in settled cases. Factors that are considered exclusively aggravating, such as willfulness, or exclusively mitigating, such as situations where remedial measures were taken, are set forth below. This guidance also identifies General Factors—which can be either mitigating or aggravating—such as the presence or absence of an internal compliance program at the time the apparent violations occurred. Other relevant Factors may also be considered at the agency's discretion.

While some violations of the EAR have a degree of knowledge or intent as an element of the offense, OEE may regard a violation of any provision of the EAR as knowing or willful if the facts and circumstances of the case support that conclusion. For example, evidence that a corporate entity had knowledge at a senior management level may mean that a higher penalty may be appropriate. OEE will also consider, in accordance with Supplement No. 3 to part 732 of the EAR, the presence of any red flags that should have alerted the Respondent that a violation was likely to occur. The aggravating factors identified in the Guidelines do not alter or amend §764.2(e) or the definition of ''knowledge'' in §772.1, or other provisions of parts 764 and 772 of the EAR. If the violations are of such a nature and extent that a monetary fine alone represents an insufficient penalty, a denial or exclusion order may also be imposed to prevent future violations of the EAR.

Aggravating Factors

A. *Willful or Reckless Violation of Law*. OEE will consider a Respondent's apparent willfulness or recklessness in violating, attempting to violate, conspiring to violate, or causing a violation of the law. Generally, to the extent the conduct at issue appears to be the result of willful conduct—a deliberate intent to violate, attempt to violate, conspire to violate, or cause a violation of the law—the OEE enforcement response will be stronger. Among the factors OEE may consider in evaluating apparent willfulness or recklessness are:

1. *Willfulness*. Was the conduct at issue the result of a decision to take action with the knowledge that such action would constitute a violation of U.S. law? Did the Respondent know that the underlying conduct constituted, or likely constituted, a violation of U.S. law at the time of the conduct?

2. *Recklessness/gross negligence*. Did the Respondent demonstrate reckless disregard or gross negligence with respect to compliance with U.S. regulatory requirements or otherwise fail to exercise a minimal degree of caution or care in avoiding conduct that led to the apparent violation? Were there warning signs that should have alerted the Respondent that an action or failure to act would lead to an apparent violation?

3. *Concealment*. Was there a deliberate effort by the Respondent to hide or purposely obfuscate its conduct in order to mislead OEE, federal, state, or foreign regulators, or other parties involved in the conduct, about an apparent violation?

NOTE: Failure to voluntarily disclose an apparent violation to OEE does not constitute concealment.

4. *Pattern of Conduct*. Did the apparent violation constitute or result from a pattern or practice of conduct or was it relatively isolated and atypical in nature? In determining both whether to bring charges and, once charges are brought, whether to treat the case as egregious, OEE will be mindful of certain situations where multiple recurring violations resulted from a single inadvertent error, such as misclassification. However, for cases that settle before filing of a charging letter with an Administrative Law Judge, OEE will generally charge only the most serious violation per transaction. If OEE issues a proposed charging letter and subsequently files a charging letter with an Administrative Law Judge because a mutually agreeable settlement cannot be reached, OEE will continue to reserve its authority to proceed with all available charges in the charging letter based on the facts presented. When determining a penalty, each violation is potentially chargeable.

5. *Prior Notice*. Was the Respondent on notice, or should it reasonably have been on notice, that the conduct at issue, or similar conduct, constituted a violation of U.S. law?

6. *Management Involvement*. In cases of entities, at what level within the organization did the willful or reckless conduct occur? Were supervisory or managerial level staff aware, or should they reasonably have been aware, of the willful or reckless conduct?

B. *Awareness of Conduct at Issue:The Respondent's awareness of the conduct giving rise to the apparent violation*. Generally, the

greater a Respondent's actual knowledge of, or reason to know about, the conduct constituting an apparent violation, the stronger the OEE enforcement response will be. In the case of a corporation, awareness will focus on supervisory or managerial level staff in the business unit at issue, as well as other senior officers and managers. Among the factors OEE may consider in evaluating the Respondent's awareness of the conduct at issue are:

1. *Actual Knowledge*. Did the Respondent have actual knowledge that the conduct giving rise to an apparent violation took place, and remain willfully blind to such conduct, and fail to take remedial measures to address it? Was the conduct part of a business process, structure or arrangement that was designed or implemented with the intent to prevent or shield the Respondent from having such actual knowledge, or was the conduct part of a business process, structure or arrangement implemented for other legitimate reasons that consequently made it difficult or impossible for the Respondent to have actual knowledge?

2. *Reason to Know*. If the Respondent did not have actual knowledge that the conduct took place, did the Respondent have reason to know, or should the Respondent reasonably have known, based on all readily available information and with the exercise of reasonable due diligence, that the conduct would or might take place?

3. *Management Involvement*. In the case of an entity, was the conduct undertaken with the explicit or implicit knowledge of senior management, or was the conduct undertaken by personnel outside the knowledge of senior management? If the apparent violation was undertaken without the knowledge of senior management, was there oversight intended to detect and prevent violations, or did the lack of knowledge by senior management result from disregard for its responsibility to comply with applicable regulations and laws?

C. *Harm to Regulatory Program Objectives: The actual or potential harm to regulatory program objectives caused by the conduct giving rise to the apparent violation*. This factor would be present where the conduct in question, in purpose or effect, substantially implicated national security, foreign policy or other essential interests protected by the U.S. export control system, in view of such factors as the reason for controlling the item to the destination in question; the sensitivity of the item; the prohibitions or restrictions against the recipient of the item; and the licensing policy concerning the transaction (such as presumption of approval or denial). OEE, in its discretion, may consult with other U.S. agencies or with licensing and enforcement authorities of other countries in making its determination. Among the factors OEE may consider in evaluating the harm to regulatory program objectives are:

1. *Implications for U.S. National Security: The impact that the apparent violation had or could potentially have on the national security of the United States*. For example, if a particular export could undermine U.S. military superiority or endanger U.S. or friendly military forces or be used in a military application contrary to U.S. interests, OEE would consider the implications of the apparent violation to be significant.

2. *Implications for U.S. Foreign Policy: The effect that the apparent violation had or could potentially have on U.S. foreign policy objectives*. For example, if a particular export is, or is likely to be, used by a foreign regime to monitor communications of its population in order to suppress free speech and persecute dissidents, OEE would consider the implications of the apparent violation to be significant.

General Factors

D. *Individual Characteristics: The particular circumstances and characteristics of a Respondent*. Among the factors OEE may consider in evaluating individual characteristics are:

1. *Commercial Sophistication: The commercial sophistication and experience of the Respondent*. Is the Respondent an individual or an entity? If an individual, was the conduct constituting the apparent violation for personal or business reasons?

2. *Size and Sophistication of Operations: The size of a Respondent's business operations, where such information is available and relevant*. At the time of the violation, did the Respondent have any previous export experience and was the Respondent familiar with export practices and requirements? Qualification of the Respondent as a small business or organization for the purposes of the Small Business Regulatory Enforcement Fairness Act, as determined by reference to the applicable standards of the Small Business Administration, may also be considered.

3. *Volume and Value of Transactions: The total volume and value of transactions undertaken by the Respondent on an annual basis, with attention given to the volume and value of the apparent violations as compared with the total volume and value of all transactions*. Was the quantity and/or value of the exports high, such that a greater penalty may be necessary to serve as an adequate penalty for the violation or deterrence of future violations, or to make the penalty proportionate to those for otherwise comparable violations involving exports of lower quantity or value?

4. *Regulatory History: The Respondent's regulatory history, including OEE's issuance of prior penalties, warning letters, or other administrative actions (including settlements), other than with respect to antiboycott matters under part 760 of the EAR*. OEE will generally only consider a Respondent's regulatory history

for the five years preceding the date of the transaction giving rise to the apparent violation. When an acquiring firm takes reasonable steps to uncover, correct, and voluntarily disclose or cause the voluntary self-disclosure to OEE of conduct that gave rise to violations by an acquired business before the acquisition, OEE typically will not take such violations into account in applying these factors in settling other violations by the acquiring firm.

5. *Other illegal conduct in connection with the export*. Was the transaction in support of other illegal conduct, for example the export of firearms as part of a drug smuggling operation, or illegal exports in support of money laundering?

6. *Criminal Convictions*. Has the Respondent been convicted of an export-related criminal violation?

NOTE: Where necessary to effective enforcement, the prior involvement in export violation(s) of a Respondent's owners, directors, officers, partners, or other related persons may be imputed to a Respondent in determining whether these criteria are satisfied.

E. *Compliance Program: The existence, nature and adequacy of a Respondent's risk-based BIS compliance program at the time of the apparent violation*. OEE will take account of the extent to which a Respondent complies with the principles set forth in BIS's Export Management System (EMS) Guidelines. Information about the EMS Guidelines can be accessed through the BIS Web site at *www.bis.doc.gov*. In this context, OEE will also consider whether a Respondent's export compliance program uncovered a problem, thereby preventing further violations, and whether the Respondent has taken steps to address compliance concerns raised by the violation, to include the submission of a VSD and steps to prevent reoccurrence of the violation that are reasonably calculated to be effective.

Mitigating Factors

F. *Remedial Response:* The Respondent's corrective action taken in response to the apparent violation. Among the factors OEE may consider in evaluating the remedial response are:

1. The steps taken by the Respondent upon learning of the apparent violation. Did the Respondent immediately stop the conduct at issue? Did the Respondent undertake to file a VSD?

2. In the case of an entity, the processes followed to resolve issues related to the apparent violation. Did the Respondent discover necessary information to ascertain the causes and extent of the apparent violation, fully and expeditiously? Was senior management fully informed? If so, when?

3. In the case of an entity, whether it adopted new and more effective internal controls and procedures to prevent the occurrence of similar apparent violations. If the entity did not have a BIS compliance program in place at the time of the apparent violation, did it implement one upon discovery of the apparent violation? If it did have a BIS compliance program, did it take appropriate steps to enhance the program to prevent the recurrence of similar violations? Did the entity provide the individual(s) and/or managers responsible for the apparent violation with additional training, and/or take other appropriate action, to ensure that similar violations do not occur in the future?

4. Where applicable, whether the Respondent undertook a thorough review to identify other possible violations.

G. *Exceptional Cooperation with OEE: The nature and extent of the Respondent's cooperation with OEE, beyond those actions set forth in Factor F*. Among the factors OEE may consider in evaluating exceptional cooperation are:

1. Did the Respondent provide OEE with all relevant information regarding the apparent violation at issue in a timely, comprehensive and responsive manner (whether or not voluntarily self-disclosed), including, if applicable, overseas records?

2. Did the Respondent research and disclose to OEE relevant information regarding any other apparent violations caused by the same course of conduct?

3. Did the Respondent provide substantial assistance in another OEE investigation of another person who may have violated the EAR?

4. Has the Respondent previously made substantial voluntary efforts to provide information (such as providing tips that led to enforcement actions against other parties) to federal law enforcement authorities in support of the enforcement of U.S. export control regulations?

5. Did the Respondent enter into a statute of limitations tolling agreement, if requested by OEE (particularly in situations where the apparent violations were not immediately disclosed or discovered by OEE, in particularly complex cases, and in cases in which the Respondent has requested and received additional time to respond to a request for information from OEE)? If so, the Respondent's entering into a tolling agreement will be deemed a mitigating factor.

NOTE: A Respondent's refusal to enter into a tolling agreement will not be considered by OEE as an aggravating factor in assessing a Respondent's cooperation or otherwise under the Guidelines.

H. *License Was Likely To Be Approved*. Would an export license application have likely been approved for the transaction had one been sought? Would the export have qualified for a License Exception? Some license requirements sections in the EAR also set forth a licensing policy (*i.e.*, a statement

of the policy under which license applications will be evaluated), such as a general presumption of denial or case by case review. OEE may also consider the licensing history of the specific item to that destination and if the item or end-user has a history of export denials.

Other Relevant Factors Considered on a Case-by-Case Basis

I. *Related Violations.* Frequently, a single export transaction can give rise to multiple violations. For example, an exporter who inadvertently misclassifies an item on the Commerce Control List may, as a result of that error, export the item without the required export license and file Electronic Export Information (EEI) to the Automated Export System (AES) that both misstates the applicable Export Control Classification Number (ECCN) and erroneously identifies the export as qualifying for the designation ''NLR'' (no license required) or cites a license exception that is not applicable. In so doing, the exporter commits three violations: one violation of §764.2(a) of the EAR for the unauthorized export and two violations of §764.2(g) of the EAR for the two false statements on the EEI filing to the AES. OEE will consider whether the violations stemmed from the same underlying error or omission, and whether they resulted in distinguished or separate harm. OEE generally does not charge multiple violations on a single export, and would not consider the existence of such multiple violations as an aggravating factor in and of itself. It is within OEE's discretion to charge separate violations and settle the case for a penalty that is less than would be appropriate for unrelated violations under otherwise similar circumstances, or to charge fewer violations and pursue settlement in accordance with that charging decision. OEE generally will consider inadvertent, compounded clerical errors as related and not separate infractions when deciding whether to bring charges and in determining if a case is egregious.

J. *Multiple Unrelated Violations.* In cases involving multiple unrelated violations, OEE is more likely to seek a denial of export privileges and/or a greater monetary penalty than OEE would otherwise typically seek. For example, repeated unauthorized exports could warrant a denial order, even if a single export of the same item to the same destination under similar circumstances might warrant just a civil monetary penalty. OEE takes this approach because multiple violations may indicate serious compliance problems and a resulting greater risk of future violations. OEE may consider whether a Respondent has taken effective steps to address compliance concerns in determining whether multiple violations warrant a denial order in a particular case.

K. *Other Enforcement Action.* Other enforcement actions taken by federal, state, or local agencies against a Respondent for the apparent violation or similar apparent violations, including whether the settlement of alleged violations of BIS regulations is part of a comprehensive settlement with other federal, state, or local agencies. Where an administrative enforcement matter under the EAR involves conduct giving rise to related criminal or civil charges, OEE may take into account the related violations, and their resolution, in determining what administrative sanctions are appropriate under part 766 of the EAR. A criminal conviction indicates serious, willful misconduct and an accordingly high risk of future violations, absent effective administrative sanctions. However, entry of a guilty plea can be a sign that a Respondent accepts responsibility for complying with the EAR and will take greater care to do so in the future. In appropriate cases where a Respondent is receiving substantial criminal penalties, OEE may find that sufficient deterrence may be achieved by lesser administrative sanctions than would be appropriate in the absence of criminal penalties. Conversely, OEE might seek greater administrative sanctions in an otherwise similar case where a Respondent is not subjected to criminal penalties. The presence of a related criminal or civil disposition may distinguish settlements among civil penalty cases that appear otherwise to be similar. As a result, the factors set forth for consideration in civil penalty settlements will often be applied differently in the context of a ''global settlement'' of both civil and criminal cases, or multiple civil cases, and may therefore be of limited utility as precedent for future cases, particularly those not involving a global settlement.

L. *Future Compliance/Deterrence Effect: The impact an administrative enforcement action may have on promoting future compliance with the regulations by a Respondent and similar parties, particularly those in the same industry sector.*

M. *Other Factors That OEE Deems Relevant.* On a case-by-case basis, in determining the appropriate enforcement response and/or the amount of any civil monetary penalty, OEE will consider the totality of the circumstances to ensure that its enforcement response is proportionate to the nature of the violation.

IV. CIVIL PENALTIES

A. Determining What Sanctions Are Appropriate in a Settlement.

OEE will review the facts and circumstances surrounding an apparent violation and apply the Factors Affecting Administrative Sanctions in Section III above in determining the appropriate sanction or

sanctions in an administrative case, including the appropriate amount of a civil monetary penalty where such a penalty is sought and imposed. Penalties for settlements reached after the initiation of litigation will usually be higher than those described by these guidelines.

B. Amount of Civil Penalty.

1. *Determining Whether a Case is Egregious.* In those cases in which a civil monetary penalty is considered appropriate, OEE will make a determination as to whether a case is deemed ''egregious'' for purposes of the base penalty calculation. If a case is determined to be egregious, OEE also will also determine the appropriate base penalty amount within the range of base penalty amounts prescribed in paragraphs IV.B.2.a.iii and iv below. These determinations will be based on an analysis of the applicable factors. In making these determinations, substantial weight will generally be given to Factors A (''willful or reckless violation of law''), B (''awareness of conduct at issue''), C (''harm to regulatory program objectives''), and D (''individual characteristics''), with particular emphasis on Factors A, B, and C. A case will be considered an ''egregious case'' where the analysis of the applicable factors, with a focus on Factors A, B, and C, indicates that the case represents a particularly serious violation of the law calling for a strong enforcement response. A determination by OEE that a case is ''egregious'' must have the concurrence of the Assistant Secretary of Commerce for Export Enforcement.

2. *Monetary Penalties in Egregious Cases and Non-Egregious Cases.* The civil monetary penalty amount shall generally be calculated as follows, except that neither the base penalty amount nor the penalty amount will exceed the applicable statutory maximum:

a. Base Category Calculation and Voluntary Self-Disclosures.

i. In a non-egregious case, if the apparent violation is disclosed through a voluntary self-disclosure, the base penalty amount shall be one-half of the transaction value, capped at a maximum base penalty amount of $125,000 per violation.

ii. In a non-egregious case, if the apparent violation comes to OEE's attention by means other than a voluntary self-disclosure, the base penalty amount shall be the ''applicable schedule amount,'' as defined above (capped at a maximum base penalty amount of $250,000 per violation).

iii. In an egregious case, if the apparent violation is disclosed through a voluntary self-disclosure, the base penalty amount shall be an amount up to one-half of the statutory maximum penalty applicable to the violation.

iv. In an egregious case, if the apparent violation comes to OEE's attention by means other than a voluntary self-disclosure, the base penalty amount shall be an amount up to the statutory maximum penalty applicable to the violation.

The following matrix represents the base penalty amount of the civil monetary penalty for each category of violation:

BASE PENALTY MATRIX

Voluntary Self-Disclosure?	Egregious Case?	
	NO	YES
YES	(1) One-Half of the Transaction Value (capped at $125,000 per violation).	(3) Up to One-Half of the Applicable Statutory Maximum.
NO	(2) Applicable Schedule Amount (capped at $250,000 per violation).	(4) Up to the Applicable Statutory Maximum.

Note to paragraph IV.B.2. The dollar values that appear in IV.B.2.a.i and .ii, and in the Base Penalty Matrix may be adjusted in accordance with U.S. law, *e.g.*, the Federal Civil Penalties Inflation Adjustment Act Improvements Act of 2015 (Pub. L. 114–74, sec. 701).

b. Adjustment for Applicable Relevant Factors.

In non-egregious cases the base penalty amount of the civil monetary penalty may be adjusted to reflect applicable Factors for Administrative Action set forth in Section III of these Guidelines. In egregious cases the base penalty amount of the civil monetary penalty will be set based on applicable Factors for Administrative Action set forth in Section III of these Guidelines. A Factor may result in a lower or higher penalty amount depending upon whether it is aggravating or mitigating or otherwise relevant to the circumstances at hand. Mitigating factors may be combined for a greater reduction in penalty, but mitigation will generally not exceed 75 percent of the base penalty, except in the case of VSDs, where full suspension is possible with conditions in certain non-egregious cases. Subject to this limitation, as a general matter, in those cases where the following Mitigating Factors are present, OEE

will adjust the base penalty amount in the following manner:

In cases involving exceptional cooperation with OEE as set forth in Mitigating Factor G, but no voluntary self-disclosure as defined in §764.5 of the EAR, the base penalty amount generally will be reduced between 25 and 40 percent. Exceptional cooperation in cases involving voluntary self-disclosure may also be considered as a further mitigating factor.

In cases involving a Respondent's first violation, the base penalty amount generally will be reduced by up to 25 percent. An apparent violation generally will be considered a ''first violation'' if the Respondent has not been convicted of an export-related criminal violation or been subject to a BIS final order in five years, preceding the date of the transaction giving rise to the apparent violation. A group of substantially similar apparent violations addressed in a single Charging Letter shall be considered as a single violation for purposes of this subsection. In those cases where a prior Charging Letter within the preceding five years involved conduct of a substantially different nature from the apparent violation at issue, OEE may consider the apparent violation at issue a ''first violation.'' Warning Letters issued within the preceding five years are not factored into account for purposes of determining eligibility for ''first offense'' mitigation. When an acquiring firm takes reasonable steps to uncover, correct, and disclose or cause to be disclosed to OEE conduct that gave rise to violations by an acquired business before the acquisition, OEE typically will not take such violations into account as an aggravating factor in settling other violations by the acquiring firm.

iii. In cases involving charges pertaining to transactions where a license exception would have been available or a license would likely have been approved had one been sought as set forth in Mitigating Factor H, the base penalty amount generally will be reduced by up to 25 percent.

In all cases, the penalty amount will not exceed the applicable statutory maximum. Similarly, while mitigating factors may be combined for a greater reduction in penalty, mitigation will generally not exceed 75 percent of the base penalty, except in the case of VSDs, where full suspension is possible with conditions in certain non-egregious cases.

C. Settlement Procedures.

The procedures relating to the settlement of administrative enforcement cases are set forth in §766.18 of the EAR.

[81 FR 40506, June 22, 2016]

SUPPLEMENT NO. 2 TO PART 766—GUIDANCE ON CHARGING AND PENALTY DETERMINATIONS IN SETTLEMENT OF ADMINISTRATIVE ENFORCEMENT CASES INVOLVING ANTIBOYCOTT MATTERS

(a) *Introduction*—(1) *Scope.* This Supplement describes how the Office of Antiboycott Compliance (OAC) responds to violations of part 760 of the EAR ''Restrictive Trade Practices or Boycotts'' and to violations of part 762 ''Recordkeeping'' when the recordkeeping requirement pertains to part 760 (together referred to in this supplement as the ''antiboycott provisions''). It also describes how BIS makes penalty determinations in the settlement of administrative enforcement cases brought under parts 764 and 766 of the EAR involving violations of the antiboycott provisions. This supplement does not apply to enforcement cases for violations of other provisions of the EAR.

(2) *Policy Regarding Settlement.* Because many administrative enforcement cases are resolved through settlement, the process of settling such cases is integral to the enforcement program. BIS carefully considers each settlement offer in light of the facts and circumstances of the case, relevant precedent, and BIS's objective to achieve in each case an appropriate level of penalty and deterrent effect. In settlement negotiations, BIS encourages parties to provide, and will give serious consideration to, information and evidence that the parties believe is relevant to the application of this guidance to their cases, to whether a violation has in fact occurred, and to whether they have a defense to potential charges.

(3) *Limitation.* BIS's policy and practice is to treat similarly situated cases similarly, taking into consideration that the facts and combination of mitigating and aggravating factors are different in each case. However, this guidance does not confer any right or impose any obligation regarding what posture or penalties BIS may seek in settling or litigating a case. Parties do not have a right to a settlement offer or particular settlement terms from BIS, regardless of settlement postures BIS has taken in other cases.

(b) *Responding to Violations.* OAC within BIS investigates possible violations of Section 8 of the Export Administration Act of 1979, as amended (''Foreign Boycotts''), the antiboycott provisions of EAR, or any order or authorization related thereto. When BIS has reason to believe that such a violation has occurred, BIS may issue a warning letter or initiate an administrative enforcement proceeding. A violation may also be referred to the Department of Justice for criminal prosecution.

(1) *Issuing a warning letter.* Warning letters represent BIS's belief that a violation has

occurred. In the exercise of its discretion, BIS may determine in certain instances that issuing a warning letter, instead of bringing an administrative enforcement proceeding, will fulfill the appropriate enforcement objective. A warning letter will fully explain the violation.

(i) BIS may issue warning letters where:

(A) The investigation commenced as a result of a voluntary self-disclosure satisfying the requirements of §764.8 of the EAR; or

(B) The party has not previously committed violations of the antiboycott provisions.

(ii) BIS may also consider the category of violation as discussed in paragraph (d)(2) of this supplement in determining whether to issue a warning letter or initiate an enforcement proceeding. A violation covered by Category C (failure to report or late reporting of receipt of boycott requests) might warrant a warning letter rather than initiation of an enforcement proceeding.

(iii) BIS will not issue a warning letter if it concludes, based on available information, that a violation did not occur.

(iv) BIS may reopen its investigation of a matter should it receive additional evidence or if it appears that information previously provided to BIS during the course of its investigation was incorrect.

(2) *Pursuing an administrative enforcement case.* The issuance of a charging letter under §766.3 of this part initiates an administrative proceeding.

(i) Charging letters may be issued when there is reason to believe that a violation has occurred. Cases may be settled before or after the issuance of a charging letter. See §766.18 of this part.

(ii) Although not required to do so by law, BIS may send a proposed charging letter to a party to inform the party of the violations that BIS has reason to believe occurred and how BIS expects that those violations would be charged. Issuance of the proposed charging letter provides an opportunity for the party and BIS to consider settlement of the case prior to the initiation of formal enforcement proceedings.

(3) *Referring for criminal prosecution.* In appropriate cases, BIS may refer a case to the Department of Justice for criminal prosecution, in addition to pursuing an administrative enforcement action.

(c) *Types of administrative sanctions.* Administrative enforcement cases generally are settled on terms that include one or more of three administrative sanctions:

(1) A monetary penalty may be assessed for each violation as provided in §764.3(a)(1) of the EAR;

NOTE TO PARAGRAPH (c)(1): The maximum penalty is subject to adjustments under the Federal Civil Penalties Adjustment Act of 1990 (28 U.S.C. 2461, note (2000)), which are codified at 15 CFR 6.4. For violations that occurred before March 9, 2006, the maximum monetary penalty per violation is $11,000. For violations occurring on or after March 9, 2006, the maximum monetary penalty per violation is $50,000.

(2) An order denying a party's export privileges under the EAR may be issued, under §764.3(a)(2) of the EAR; or

(3) Exclusion from practice under §764.3(a)(3) of the EAR.

(d) *How BIS determines what sanctions are appropriate in a settlement*—(1) *General Factors.* BIS looks to the following general factors in determining what administrative sanctions are appropriate in each settlement.

(i) *Degree of seriousness.* In order to violate the antiboycott provisions of the EAR, a U.S. person does not need to have actual ''knowledge'' or a reason to know, as that term is defined in §772.1 of the EAR, of relevant U.S. laws and regulations. Typically, in cases that do not involve knowing violations, BIS will seek a settlement for payment of a civil penalty (unless the matter is resolved with a warning letter). However, in cases involving knowing violations, conscious disregard of the antiboycott provisions, or other such serious violations (e.g., furnishing prohibited information in response to a boycott questionnaire with knowledge that such furnishing is in violation of the EAR), BIS is more likely to seek a denial of export privileges or an exclusion from practice, and/or a greater monetary penalty as BIS considers such violations particularly egregious.

(ii) *Category of violations.* In connection with its activities described in paragraph (a)(1) of this supplement, BIS recognizes three categories of violations under the antiboycott provisions of the EAR. (See §760.2, §760.4 and §760.5 of the EAR for examples of each type of violation other than recordkeeping). These categories reflect the relative seriousness of a violation, with Category A violations typically warranting the most stringent penalties, including up to the maximum monetary penalty, a denial order and/or an exclusion order. Through providing these categories in this penalty guidelines notice, BIS hopes to give parties a general sense of how it views the seriousness of various violations. This guidance, however, does not confer any right or impose any obligation as to what penalties BIS may impose based on its review of the specific facts of a case.

(A) The Category A violations and the sections of the EAR that set forth their elements are:

(*1*) Discriminating against U.S. persons on the basis of race, religion, sex, or national origin—§760.2(b);

(*2*) Refusing to do business or agreeing to refuse to do business—§ 760.2(a);

(*3*) Furnishing information about race, religion, sex, or national origin of U.S. persons including, but not limited to, providing information in connection with a boycott questionnaire about the religion of employees—§ 760.2(c);

(*4*) Evading the provisions of part 760—§ 760.4;

(*5*) Furnishing information about business relationships with boycotted countries or blacklisted persons—§ 760.2(d); and

(*6*) Implementing letters of credit—§ 760.2(f).

(B) The Category B violations and the sections of the EAR that set forth their elements are:

(*1*) Furnishing information about associations with charitable or fraternal organizations which support a boycotted country—§ 760.2(e); and

(*2*) Making recordkeeping violations—part 762.

(C) The Category C violation and the section of the EAR that sets forth its elements is: Failing to report timely receipt of boycott requests—§ 760.5.

(iii) *Violations arising out of related transactions.* Frequently, a single transaction can give rise to multiple violations. Depending on the facts and circumstances, BIS may choose to impose a smaller or greater penalty per violation. In exercising its discretion, BIS typically looks to factors such as whether the violations resulted from conscious disregard of the requirements of the antiboycott provisions; whether they stemmed from the same underlying error or omission; and whether they resulted in distinguishable or separate harm. The three scenarios set forth below are illustrative of how BIS might view transactions that lead to multiple violations.

(A) *First scenario.* An exporter enters into a sales agreement with a company in a boycotting country. In the course of the negotiations, the company sends the exporter a request for a signed statement certifying that the goods to be supplied do not originate in a boycotted country. The exporter provides the signed certification. Subsequently, the exporter fails to report the receipt of the request. The exporter has committed two violations of the antiboycott provisions, first, a violation of § 760.2(d) for furnishing information concerning the past or present business relationships with or in a boycotted country, and second, a violation of § 760.5 for failure to report the receipt of a request to engage in a restrictive trade practice or boycott. Although the supplier has committed two violations, BIS may impose a smaller mitigated penalty on a per violation basis than if the violations had stemmed from two separate transactions.

(B) *Second scenario.* An exporter receives a boycott request to provide a statement that the goods at issue in a sales transaction do not contain raw materials from a boycotted country and to include the signed statement along with the invoice. The goods are shipped in ten separate shipments. Each shipment includes a copy of the invoice and a copy of the signed boycott-related statement. Each signed statement is a certification that has been furnished in violation of § 760.2(d)'s bar on the furnishing of prohibited business information. Technically, the exporter has committed ten separate violations of § 760.2(d) and one violation of § 760.5 for failure to report receipt of the boycott request. Given that the violations arose from a single boycott request, however, BIS may treat the violations as related and impose a smaller penalty than it would if the furnishing had stemmed from ten separate requests.

(C) *Third scenario.* An exporter has an ongoing relationship with a company in a boycotting country. The company places three separate orders for goods on different dates with the exporter. In connection with each order, the company requests the exporter to provide a signed statement certifying that the goods to be supplied do not originate in a boycotted country. The exporter provides a signed certification with each order of goods that it ships to the company. BIS has the discretion to penalize the furnishing of each of these three items of information as a separate violation of § 760.2(d) of the EAR for furnishing information concerning past or present business relationships with or in a boycotted country.

(iv) *Multiple violations from unrelated transactions.* In cases involving multiple unrelated violations, BIS is more likely to seek a denial of export privileges, an exclusion from practice, and/or a greater monetary penalty than in cases involving isolated incidents. For example, the repeated furnishing of prohibited boycott-related information about business relationships with or in boycotted countries during a long period of time could warrant a denial order, even if a single instance of furnishing such information might warrant only a monetary penalty. BIS takes this approach because multiple violations may indicate serious compliance problems and a resulting risk of future violations. BIS may consider whether a party has taken effective steps to address compliance concerns in determining whether multiple violations warrant a denial or exclusion order in a particular case.

(v) *Timing of settlement.* Under § 766.18 of this part, settlement can occur before a charging letter is served, while a case is before an administrative law judge, or while a case is before the Under Secretary for Industry and Security under § 766.22 of this part.

However, early settlement—for example, before a charging letter has been filed—has the benefit of freeing resources for BIS to deploy in other matters. In contrast, for example, the BIS resources saved by settlement on the eve of an adversary hearing under §766.13 of this part are fewer, insofar as BIS has already expended significant resources on discovery, motions practice, and trial preparation. Given the importance of allocating BIS resources to maximize enforcement of the EAR, BIS has an interest in encouraging early settlement and will take this interest into account in determining settlement terms.

(vi) *Related criminal or civil violations.* Where an administrative enforcement matter under the antiboycott provisions involves conduct giving rise to related criminal charges, BIS may take into account the related violations and their resolution in determining what administrative sanctions are appropriate under part 766 of the EAR. A criminal conviction indicates serious, willful misconduct and an accordingly high risk of future violations, absent effective administrative sanctions. However, entry of a guilty plea can be a sign that a party accepts responsibility for complying with the antiboycott provisions and will take greater care to do so in the future. In appropriate cases where a party is receiving substantial criminal penalties, BIS may find that sufficient deterrence may be achieved by lesser administrative sanctions than would be appropriate in the absence of criminal penalties. Conversely, BIS might seek greater administrative sanctions in an otherwise similar case where a party is not subjected to criminal penalties. The presence of a related criminal or civil disposition may distinguish settlements among civil penalty cases that appear to be otherwise similar. As a result, the factors set forth for consideration in civil penalty settlements will often be applied differently in the context of a ''global settlement'' of both civil and criminal cases, or multiple civil cases involving other agencies, and may therefore be of limited utility as precedent for future cases, particularly those not involving a global settlement.

(vii) *Familiarity with the Antiboycott Provisions.* Given the scope and detailed nature of the antiboycott provisions, BIS will consider whether a party is an experienced participant in the international business arena who may possess (or ought to possess) familiarity with the antiboycott laws. In this respect, the size of the party's business, the presence or absence of a legal division or corporate compliance program, and the extent of prior involvement in business with or in boycotted or boycotting countries, may be significant.

(2) *Specific mitigating and aggravating factors.* In addition to the general factors described in paragraph (d)(1) of this supplement, BIS also generally looks to the presence or absence of the specific mitigating and aggravating factors in this paragraph in determining what sanctions should apply in a given settlement. These factors describe circumstances that, in BIS's experience, are commonly relevant to penalty determinations in settled cases. However, this listing of factors is not exhaustive and BIS may consider other factors that may further indicate the blameworthiness of a party's conduct, the actual or potential harm associated with a violation, the likelihood of future violations, and/or other considerations relevant to determining what sanctions are appropriate. The assignment of mitigating or aggravating factors will depend upon the attendant circumstances of the party's conduct. Thus, for example, one prior violation should be given less weight than a history of multiple violations, and a previous violation reported in a voluntary self-disclosure by a party whose overall compliance efforts are of high quality should be given less weight than previous violation(s) not involving such mitigating factors. Some of the mitigating factors listed in this paragraph are designated as having ''great weight.'' When present, such a factor should ordinarily be given considerably more weight than a factor that is not so designated.

(i) *Specific mitigating factors.*

(A) *Voluntary self-disclosure.* (GREAT WEIGHT) The party has made a voluntary self-disclosure of the violation, satisfying the requirements of §764.8 of the EAR.

(B) *Effective compliance program.* (GREAT WEIGHT)

(*1*) *General policy or program pertaining to Antiboycott Provisions.* BIS will consider whether a party's compliance efforts uncovered a problem, thereby preventing further violations, and whether the party has taken steps to address compliance concerns raised by the violation, including steps to prevent recurrence of the violation, that are reasonably calculated to be effective. The focus is on the party's demonstrated compliance with the antiboycott provisions. Whether a party has an effective export compliance program covering other provisions of the EAR is not relevant as a mitigating factor. In the case of a party that has done previous business with or in boycotted countries or boycotting countries, BIS will examine whether the party has an effective antiboycott compliance program and whether its overall antiboycott compliance efforts have been of high quality. BIS may deem it appropriate to review the party's internal business documents relating to antiboycott compliance (e.g., corporate compliance manuals, employee training materials).

(*2*) *Compliance with reporting and recordkeeping requirements.* In the case of a party that has received reportable boycott requests in the past, BIS may examine whether

the party complied with the reporting and recordkeeping requirements of the antiboycott provisions.

(C) *Limited business with or in boycotted or boycotting countries*. The party has had little to no previous experience in conducting business with or in boycotted or boycotting countries. Prior to the current enforcement proceeding, the party had not engaged in business with or in such countries, or had only transacted such business on isolated occasions. BIS may examine the volume of business that the party has conducted with or in boycotted or boycotting countries as demonstrated by the size and dollar amount of transactions or the percentage of a party's overall business that such business constitutes.

(D) *History of compliance with the Antiboycott Provisions of the EAR*.

(*1*) BIS will consider it to be a mitigating factor if:

(*i*) The party has never been convicted of a criminal violation of the antiboycott provisions;

(*ii*) In the past 5 years, the party has not entered into a settlement or been found liable in a boycott-related administrative enforcement case with BIS or another U.S. government agency;

(*iii*) In the past 3 years, the party has not received a warning letter from BIS relating to the antiboycott provisions; or

(*iv*) In the past 5 years, the party has not otherwise violated the antiboycott provisions.

(*2*) Where necessary to ensure effective enforcement, the prior involvement in violations of the antiboycott provisions of a party's owners, directors, officers, partners, or other related persons may be imputed to a party in determining whether these criteria are satisfied. When an acquiring firm takes reasonable steps to uncover, correct, and disclose to BIS conduct that gave rise to violations that the acquired business committed before the acquisition, BIS typically will not take such violations into account in applying this factor in settling other violations by the acquiring firm.

(E) *Exceptional cooperation with the investigation*. The party has provided exceptional cooperation to OAC during the course of the investigation.

(F) *Clarity of request to furnish prohibited information or take prohibited action*. The party responded to a request to furnish information or take action that was ambiguously worded or vague.

(G) *Violations arising out of a party's ''passive'' refusal to do business in connection with an agreement*. The party has acquiesced in or abided by terms or conditions that constitute a prohibited refusal to do business (e.g., responded to a tender document that contains prohibited language by sending a bid). See ''active'' agreements to refuse to do business in paragraph (d)(2)(ii)(I) of this supplement.

(H) *Isolated occurrence of violation*. The violation was an isolated occurrence. (Compare to long duration or high frequency of violations as an aggravating factor in paragraph (d)(2)(ii)(F) of this supplement.)

(ii) *Specific Aggravating Factors*.

(A) *Concealment or obstruction*. The party made a deliberate effort to hide or conceal the violation. (GREAT WEIGHT)

(B) *Serious disregard for compliance responsibilities*. (GREAT WEIGHT] There is evidence that the party's conduct demonstrated a serious disregard for responsibilities associated with compliance with the antiboycott provisions (e.g.: knowing violation of party's own compliance policy or evidence that a party chose to treat potential penalties as a cost of doing business rather than develop a compliance policy).

(C) *History of compliance with the Antiboycott Provisions*.

(*1*) BIS will consider it to be an aggravating factor if:

(*i*) The party has been convicted of a criminal violation of the antiboycott provisions;

(*ii*) In the past 5 years, the party has entered into a settlement or been found liable in a boycott-related administrative enforcement case with BIS or another U.S. government agency;

(*iii*) In the past 3 years, the party has received a warning letter from BIS relating to the antiboycott provisions; or

(*iv*) In the past 5 years, the party has otherwise violated the antiboycott provisions.

(*2*) Where necessary to ensure effective enforcement, the prior involvement in violations of the antiboycott provisions of a party's owners, directors, officers, partners, or other related persons may be imputed to a party in determining whether these criteria are satisfied.

(*3*) When an acquiring firm takes reasonable steps to uncover, correct, and disclose to BIS conduct that gave rise to violations that the acquired firm committed before being acquired, BIS typically will not take such violations into account in applying this factor in settling other violations by the acquiring firm.

(D) *Familiarity with the type of transaction at issue in the violation*. For example, in the case of a violation involving a letter of credit or related financial document, the party routinely pays, negotiates, confirms, or otherwise implements letters of credit or related financial documents in the course of its standard business practices.

(E) *Prior history of business with or in boycotted countries or boycotting countries*. The party has a prior history of conducting business with or in boycotted and boycotting countries. BIS may examine the volume of business that the party has conducted with or in boycotted and boycotting countries as

reflected by the size and dollar amount of transactions or the percentage of a party's overall business that such business constitutes.

(F) *Long duration or high frequency of violations.* Violations that occur at frequent intervals or repeated violations occurring over an extended period of time may be treated more seriously than a single violation or related violations that are committed within a brief period of time, particularly if the violations are committed by a party with a history of business with or in boycotted and boycotting countries. (Compare to isolated occurrence of violation in paragraph (d)(2)(i)(H) of this supplement.)

(G) *Clarity of request to furnish prohibited information or take prohibited action.* The request to furnish information or take other prohibited action (e.g., enter into agreement to refuse to do business with a boycotted country or entity blacklisted by a boycotting country) is facially clear as to its intended purpose.

(H) *Violation relating to specific information concerning an individual entity or individual.* The party has furnished prohibited information about business relationships with specific companies or individuals.

(I) *Violations relating to ''active'' conduct concerning an agreement to refuse to do business.* The party has taken action that involves altering, editing, or enhancing prohibited terms or language in an agreement to refuse to do business, including a letter of credit, or drafting a clause or provision including prohibited terms or language in the course of negotiating an agreement to refuse to do business, including a letter of credit. See ''passive'' agreements to refuse to do business in paragraph (d)(2)(i)(G) of this supplement.

(e) *Determination of Scope of Denial or Exclusion Order.* In deciding whether and what scope of denial or exclusion order is appropriate, the following factors are particularly relevant: The presence of mitigating or aggravating factors of great weight; the degree of seriousness involved; the extent to which senior management participated in or was aware of the conduct in question; the number of violations; the existence and seriousness of prior violations; the likelihood of future violations (taking into account relevant efforts to comply with the antiboycott provisions); and whether a civil monetary penalty can be expected to have a sufficient deterrent effect.

(f) *How BIS Makes Suspension and Deferral Decisions*—(1) *Civil Penalties.* In appropriate cases, payment of a civil monetary penalty may be deferred or suspended. See § 764.3(a)(1)(iii) of the EAR. In determining whether suspension or deferral is appropriate, BIS may consider, for example, whether the party has demonstrated a limited ability to pay a penalty that would be appropriate for such violations, so that suspended or deferred payment can be expected to have sufficient deterrent value, and whether, in light of all the circumstances, such suspension or deferral is necessary to make the impact of the penalty consistent with the impact of BIS penalties on other parties who committed similar violations.

(2) *Denial of Export Privileges and Exclusion from Practice.* In deciding whether a denial or exclusion order should be suspended, BIS may consider, for example, the adverse economic consequences of the order on the party, its employees, and other persons, as well as on the national interest in maintaining or promoting the competitiveness of U.S. businesses. An otherwise appropriate denial or exclusion order will be suspended on the basis of adverse economic consequences only if it is found that future violations of the antiboycott provisions are unlikely and if there are adequate measures (usually a substantial civil monetary penalty) to achieve the necessary deterrent effect.

[72 FR 39006, July 17, 2007]

PART 768—FOREIGN AVAILABILITY DETERMINATION PROCEDURES AND CRITERIA

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SUPPLEMENT NO. 1 TO PART 768—EVIDENCE OF FOREIGN AVAILABILITY

SUPPLEMENT NO. 2 TO PART 768—ITEMS ELIGIBLE FOR EXPEDITED LICENSING PROCEDURES [RESERVED]

AUTHORITY: 50 U.S.C. 4601 *et seq.;* 50 U.S.C. 1701 *et seq.;* E.O. 13222, 66 FR 44025, 3 CFR, 2001 Comp., p. 783; Notice of August 4, 2016, 81 FR 52587 (August 8, 2016).

SOURCE: 61 FR 12915, Mar. 25, 1996, unless otherwise noted.

§ 768.1 Introduction.

In this part, references to the Export Administration Regulations (EAR) are references to 15 CFR chapter VII, subchapter C.

(a) *Authority*. Pursuant to sections 5(f) and 5(h) of the Export Administration Act (EAA), the Under Secretary of Commerce for Export Administration directs the Bureau of Industry and Security (BIS) in gathering and analyzing all the evidence necessary for the Secretary to determine foreign availability.

(b) *Scope*. This part applies only to the extent that items are controlled for national security purposes. This part does not apply to encryption items that were formerly controlled on the U.S. Munitions List and that were transferred to the Commerce Control List consistent with E.O. 13026 of November 15, 1996 (61 FR 58767) and pursuant to the Presidential Memorandum of that date, which shall not be subject to any mandatory foreign availability review procedures.

(c) *Types of programs*. There are two general programs of foreign availability:

(1) *Foreign availability to controlled countries*. In this category are denied license assessments (see §§768.4(b) and 768.7 of this part) and decontrol assessments (see §§768.4(c) and 768.7 of this part).

(2) *Foreign availability to non-controlled countries*. In this category are denied license assessments, decontrol assessments, and evaluations of eligibility for expedited licensing (see §768.8 of this part).

(d) *Definitions*. The following are definitions of terms used in this part 768:

Allegation. See foreign availability submission.

Assessment. An evidentiary analysis that BIS conducts concerning the foreign availability of a given item based on the assessment criteria, data gathered by BIS, and the data and recommendations submitted by the Departments of Defense and State and other relevant departments and agencies, TAC committees, and industry.

Assessment criteria. Statutorily established criteria that must be assessed for the Secretary to make a determination with respect to foreign availability. They are, available-in-fact, from a non-U.S. source, in sufficient quantity so as to render the control ineffective, and of comparable quality. (See §768.6 of this part).

Available-in-fact. An item is available-in-fact to a country if it is produced within the country or if it may be obtained by that country from a third country. Ordinarily, items will not be considered available-in-fact to non-controlled countries if the items are available only under a validated national security license or a comparable authorization from a country that maintains export controls on such items cooperatively with the United States.

Claimant. Any party who makes a foreign availability submission, excluding TACs.

Comparable quality. An item is of comparable quality to an item controlled under the EAR if it possesses the characteristics specified in the Commerce Control List (CCL) for that item and is alike in key characteristics that include, but are not limited to: (1) Function; (2) technological approach; (3) performance thresholds; (4) maintainability and service life; and (5) any other attribute relevant to the purpose for which the control was placed on the item.

Controlled countries. Albania, Armenia, Azerbaijan, Belarus, Bulgaria, Cambodia, Cuba, Estonia, Georgia, Kazakhstan, Kyrgyzstan, Laos, Latvia, Lithuania, Moldova, Mongolia, North Korea, Romania, Russia, Tajikistan, Turkmenistan, Ukraine, Uzbekistan, Vietnam and the People's Republic of China.

Decontrol. Removal of license requirements under the EAR.

Decontrol assessment. An assessment of the foreign availability of an item to a country or countries for purposes of determining whether decontrol is warranted. Such assessments may be conducted after BIS receives a foreign availability submission or a TAC certification, or by the Secretary's own initiative.

Denied license assessment. A foreign availability assessment conducted as a result of a claimant's allegation of foreign availability for an item (or items) that BIS has denied or has issued a letter of intent to deny a license. If the Secretary determines that foreign availability exists, BIS's approval of a license will be limited to the items,

countries, and quantities in the allegation.

Determination. The Secretary's decision that foreign availability within the meaning of the EAA does or does not exist. (See § 768.7 of this part).

Expedited licensing procedure eligibility evaluation. An evaluation that BIS initiates for the purpose of determining whether an item is eligible for the expedited licensing procedure. (See § 768.8 of this part).

Expedited licensing procedures. Under expedited licensing procedures, BIS reviews and processes a license application for the export of an eligible item to a non-controlled country within statutory time limits. Licenses are deemed approved unless BIS denies within the statutory time limits (See § 768.8 of this part).

Foreign availability submission (FAS). An allegation of foreign availability a claimant makes, supported by reasonable evidence, and submits to BIS. (See § 768.5 of this part).

Item. Any commodity, software, or technology.

Items eligible for non-controlled country expedited licensing procedures. The items described in supplement no. 2 to this part 768 are eligible for the expedited license procedures (See § 768.8 of this part).

National Security Override (NSO). A Presidential decision to maintain export controls on an item notwithstanding its foreign availability as determined under the EAA. The President's decision is based on his/her determination that the absence of the controls would prove detrimental to the national security of the United States. Once the President makes such a decision, the President must actively pursue negotiations to eliminate foreign availability with the governments of the sources of foreign availability. (See § 768.7 of this part).

Non-controlled countries. Any country not defined as a controlled country by this section.

Non-U.S. source/foreign source. A person located outside the jurisdiction of the United States (as defined in part 772 of the EAR).

Reasonable evidence. Relevant information that is credible.

Reliable evidence. Relevant information that is credible and dependable.

Secretary. As used in this part, the Secretary refers to the Secretary of Commerce or his/her designee.

Similar quality. An item is of similar quality to an item that is controlled under the EAR if it is substantially alike in key characteristics that may include, but are not limited to: (1) Function; (2) technological approach; (3) performance thresholds; (4) maintainability and service life; and (5) any other attribute relevant to the purpose for which the control was placed on the item.

Sufficient quantity. The amount of an item that would render the U.S. export control, or the denial of the license in question, ineffective in achieving its purpose. For a controlled country, it is the quantity that meets the military needs of that country so that U.S. exports of the item to that country would not make a significant contribution to its military potential.

Technical Advisory Committee (TAC). A Committee created under section 5(h) of the EAA that advises and assists the Secretary of Commerce, the Secretary of Defense, and any other department, agency, or official of the Government of the United States to which the President delegates authority under the EAA on export control matters related to specific areas of controlled items.

TAC certification. A statement that a TAC submits to BIS, supported by reasonable evidence, documented as in a FAS, that foreign availability to a controlled country exists for an item that falls within the TAC's area of technical expertise.

[61 FR 12915, Mar. 25, 1996, as amended at 61 FR 68585, Dec. 30, 1996; 62 FR 25469, May 9, 1997]

§ 768.2 Foreign availability described.

(a) *Foreign availability*. Foreign availability exists when the Secretary determines that an item is comparable in quality to an item subject to U.S. national security export controls, and is available-in-fact to a country, from a non-U.S. source, in sufficient quantities to render the U.S. export control of that item or the denial of a license ineffective. For a controlled country,

such control or denial is ''ineffective'' when maintaining such control or denying a specific license would not restrict the availability of items that would make a significant contribution to the military potential of the controlled country or combination of countries detrimental to the national security of the United States (see sections 5(a) and 3(2)(A) of the EAA.)

(b) *Types of foreign availability*. There are two types of foreign availability:

(1) Foreign availability to a controlled country; and

(2) Foreign availability to a non-controlled country.

NOTE TO PARAGRAPH (b) OF THIS SECTION: See § 768.7 of this part for delineation of the foreign availability assessment procedures, and § 768.6 of this part for the criteria used in determining foreign availability.

§ 768.3 Foreign availability assessment.

(a) *Foreign availability assessment*. A foreign availability assessment is an evidentiary analysis that BIS conducts to assess the foreign availability of a given item according to the assessment criteria, based on data submitted by a claimant, the data gathered by BIS, and the data and recommendations submitted by the Departments of Defense and State and other relevant departments and agencies, TAC committees, and industry. BIS uses the results of the analysis in formulating its recommendation to the Secretary on whether foreign availability exists for a given item. If the Secretary determines that foreign availability exists, the Secretary will decontrol the item for national security reasons or approve the license in question if there is no foreign policy reason to deny the license, unless the President exercises a National Security Override (see § 768.7 of this part). The effect of any such determination on the effectiveness of foreign policy controls may be considered independent of this part.

(b) *Types of assessments*. There are two types of foreign availability assessments:

(1) Denied license assessment; and

(2) Decontrol assessment.

(c) *Expedited licensing procedures*. See § 768.8 of this part for the evaluation of eligibility of an item for the expedited licensing procedures.

[61 FR 12915, Mar. 25, 1996, as amended at 61 FR 68585, Dec. 30, 1996]

§ 768.4 Initiation of an assessment.

(a) *Assessment request*. To initiate an assessment, each claimant or TAC must submit a FAS or a TAC Certification to BIS. TACs are authorized to certify foreign availability only to controlled countries. Claimants can allege foreign availability for either controlled or non-controlled countries.

(b) *Denied license assessment*. A claimant whose license application BIS has denied, or for which it has issued a letter of intent to deny on national security grounds, may request that BIS initiate a denied license assessment by submitting a Foreign Availability Submission (FAS) within 90 days after denial of the license. As part of its submission, the claimant must request that the specified license application be approved on the grounds of foreign availability. The evidence must relate to the particular export as described on the license application and to the alleged comparable item. If foreign availability is found, the Secretary will approve the license for the specific items, countries, and quantities listed on the application. The denied license assessment procedure, however, is not intended to result in the removal of the U.S. export control on an item by incrementally providing a country with amounts that, taken together, would constitute a sufficient quantity of an item. The Secretary will not approve on foreign availability grounds a denied license if the approval of such license would itself render the U.S. export control ineffective in achieving its purpose. In the case of a positive determination, the Secretary will determine whether a decontrol assessment is warranted. If so, then BIS will initiate a decontrol assessment.

(c) *Decontrol assessment*. (1) Any claimant may at any time request that BIS initiate a decontrol assessment by a FAS to BIS alleging foreign availability to any country or countries.

(2) A TAC may request that BIS initiate a decontrol assessment at any time by submitting a TAC Certification to BIS that there is foreign

availability to a controlled country for items that fall within the area of the TAC's technical expertise.

(3) The Secretary, on his/her own initiative, may initiate a decontrol assessment.

(d) *BIS mailing address.* All foreign availability submissions and TAC certifications should be submitted to: Department of Commerce, Bureau of Industry and Security, Room H–1093, 14th Street and Pennsylvania Avenue, NW, Washington, DC 20230.

[61 FR 12915, Mar. 25, 1996, as amended at 72 FR 25196, May 4, 2007]

§ 768.5 Contents of foreign availability submissions and Technical Advisory Committee certifications.

(a) All foreign availability submissions must contain, in addition to information on product or technology alleged to be available from foreign sources, at least:

(1) The name of the claimant;

(2) The claimant's mailing and business address;

(3) The claimant's telephone number; and

(4) A contact point and telephone number.

(b) Foreign availability submissions and TAC certifications should contain as much evidence as is available to support the claim, including, but not limited to:

(1) Product names and model designations of the items alleged to be comparable;

(2) Extent to which the alleged comparable item is based on U.S. technology;

(3) Names and locations of the non-U.S. sources and the basis for claiming that the item is a non-U.S. source item;

(4) Key performance elements, attributes, and characteristics of the items on which a qualitative comparison may be made;

(5) Non-U.S. source's production quantities and/or sales of the alleged comparable items and marketing efforts;

(6) Estimated market demand and the economic impact of the control;

(7) Product names, model designations, and value of U.S. controlled parts and components incorporated in the items alleged to be comparable; and

(8) The basis for the claim that the item is available-in-fact to the country or countries for which foreign availability is alleged.

(c) Supporting evidence of foreign availability may include, but is not limited to, the following:

(1) Foreign manufacturers' catalogs, brochures, operation or maintenance manuals;

(2) Articles from reputable trade and technical publications;

(3) Photographs;

(4) Depositions based on eyewitness accounts; and

(5) Other credible evidence.

NOTE TO PARAGRAPH (c) OF THIS SECTION: See supplement no. 1 to part 768 for additional examples of supporting evidence.

(d) Upon receipt of a FAS or TAC certification, BIS will review it to determine whether there is sufficient evidence to support the belief that foreign availability may exist. If BIS determines the FAS or TAC certification is lacking in supporting evidence, BIS will seek additional evidence from appropriate sources, including the claimant or TAC. BIS will initiate the assessment when it determines that it has sufficient evidence that foreign availability may exist. Claimant and TAC certified assessments will be deemed to be initiated as of the date of such determination.

(e) Claimants and TACs are advised to review the foreign availability assessment criteria described in § 768.6 of this part and the examples of evidence described in supplement no. 1 to part 768 when assembling supporting evidence for inclusion in the FAS or TAC certification.

§ 768.6 Criteria.

BIS will evaluate the evidence contained in a FAS or TAC certification and all other evidence gathered in the assessment process in accordance with certain criteria that must be met before BIS can recommend a positive determination to the Secretary. The criteria are defined in § 768.1(d) of this part. In order to initiate an assessment, each FAS and TAC certification should address each of these criteria.

The criteria are statutorily prescribed and are:

(a) Available-in-fact;

(b) Non-U.S. source;

(c) Sufficient quantity; and

(d) Comparable quality.

§ 768.7 Procedures.

(a) *Initiation of an assessment.* (1) Once BIS accepts a FAS or TAC certification of foreign availability, BIS will notify the claimant or TAC that it is initiating the assessment.

(2) BIS will publish a FEDERAL REGISTER notice of the initiation of any assessment.

(3) BIS will notify the Departments of Defense and State, the intelligence community, and any other departments, agencies and their contractors that may have information concerning the item on which BIS has initiated an assessment. Each such department, agency, and contractor shall provide BIS all relevant information concerning the item. BIS will invite interested departments and agencies to participate in the assessment process (See paragraph (e) of this section).

(b) *Data gathering.* BIS will seek and consider all available information that bears upon the presence or absence of foreign availability, including but not limited to that evidence described in § 768.5 (b) and (c) of this part. As soon as BIS initiates the assessment, it will seek evidence relevant to the assessment, including an analysis of the military needs of a selected country or countries, technical analysis, and intelligence information from the Departments of Defense and State, and other U.S. agencies. Evidence is particularly sought from: industry sources worldwide; other U.S. organizations; foreign governments; commercial, academic and classified data bases; scientific and engineering research and development organizations; and international trade fairs.

(c) *Analysis.* BIS will conduct its analysis by evaluating whether the reasonable and reliable evidence that is relevant to each of the foreign availability criteria provides a sufficient basis to recommend a determination that foreign availability does or does not exist.

(d) *Recommendation and determination.* (1) Upon completion of each assessment, BIS, on the basis of its analysis, will recommend that the Secretary make a determination either that there is or that there is not foreign availability, whichever the evidence supports. The assessment upon which BIS bases its recommendation will accompany the recommendation to the Secretary.

(2) BIS will recommend on the basis of its analysis that the Secretary determine that foreign availability exists to a country when the available evidence demonstrates that an item of comparable quality is available-in-fact to the country, from non-U.S. sources, in sufficient quantity so that continuation of the existing national security export control, or denial of the license application in question on national security grounds, would be ineffective in achieving its purpose. For a controlled country, such control or denial is ''ineffective'' when comparable items are available-in-fact from foreign sources in sufficient quantities so that maintaining such control or denying a license would not be effective in restricting the availability of items that would make a significant contribution to the military potential of any country or combination of countries detrimental to the national security of the United States.

(3) The Secretary will make the determination of foreign availability on the basis of the BIS assessment and recommendation; the Secretary's determination will take into account the evidence provided to BIS, the recommendations of the Secretaries of Defense and State and any other interested agencies, and any other information that the Secretary considers relevant.

(4) For all decontrol and denied license assessments (under section 5(f)(3) of the EAA) initiated by a FAS, the Secretary will make a determination within 4 months of the initiation of the assessment and will notify the claimant. The Secretary will submit positive determinations for review to the appropriate departments and agencies.

(5) The deadlines for determinations based on self-initiated and TAC-initiated assessments are different from the

deadlines for claimant-initiated assessments (see paragraphs (f)(2) and (f)(3) of this section).

(e) *Interagency review*. BIS will notify all appropriate U.S. agencies and Departments upon the initiation of an assessment and will invite their participation in the assessment process. BIS will provide all interested agencies and departments an opportunity to review source material, draft analyses and draft assessments immediately upon their receipt or production. For claimant-initiated assessments, BIS will provide a copy of all positive recommendations and assessments to interested agencies and departments for their review following the Secretary's determination of foreign availability. For self-initiated and TAC-initiated assessments, BIS will provide all interested agencies an opportunity to review and comment on the assessment.

(f) *Notification*. (1) No later than 5 months after the initiation of an assessment based on a FAS (claimant assessments), the Secretary will inform the claimant in writing and will submit for publication in the FEDERAL REGISTER a notice that:

(i) Foreign availability exists, and

(A) The requirement of a license has been removed or the license application in question has been approved; or

(B) The President has determined that for national security purposes the export controls must be maintained or the license application must be denied, notwithstanding foreign availability, and that appropriate steps to eliminate the foreign availability are being initiated; or

(C) In the case of an item controlled multilaterally under the former COCOM regime, the U.S. Government will conduct any necessary consultations concerning the proposed decontrol or approval of the license with the former COCOM regime for a period of up to 4 months from the date of the publication of the determination in the FEDERAL REGISTER (the U.S. Government may remove the license requirement for exports to non-controlled countries pending completion of the former COCOM regime review process); or

(ii) Foreign availability does not exist.

(2) For all TAC certification assessments, the Secretary will make a foreign availability determination within 90 days following initiation of the assessment. BIS will prepare and submit a report to the TAC and to the Congress stating that:

(i) The Secretary has found foreign availability and has removed the license requirement; or

(ii) The Secretary has found foreign availability, but has recommended to the President that negotiations be undertaken to eliminate the foreign availability; or

(iii) The Secretary has not found foreign availability.

(3) There is no statutory deadline for assessments self-initiated by the Secretary or for the resulting determination. However, BIS will make every effort to complete such assessments and determinations promptly.

(g) *Foreign availability to controlled countries*. When the Secretary determines that an item controlled for national security reasons is available to a controlled country and the President does not issue a National Security Override (NSO), BIS will submit the determination to the Department of State, along with a draft proposal for the multilateral decontrol of the item or for the former COCOM regime approval of the license. The Department of State will submit the proposal or the license for former COCOM regime review. The former COCOM regime will have up to 4 months for review of the proposal.

(h) *Foreign availability to non-controlled countries*. If the Secretary determines that foreign availability to non-controlled countries exists, the Secretary will decontrol the item for export to all non-controlled countries where it is found to be available, or approve the license in question, unless the President exercises a National Security Override.

(i) *Negotiations to eliminate foreign availability*. (1) The President may determine that an export control must be maintained notwithstanding the existence of foreign availability. Such a determination is called a National Security Override (NSO) and is based on the President's decision that the absence of the control would prove detrimental to

the United States national security. Unless extended (as described in paragraph (i)(7) of this section), an NSO is effective for 6 months. Where the President invokes an NSO, the U.S. Government will actively pursue negotiations with the government of any source country during the 6 month period to eliminate the availability.

(2) There are two types of National Security Overrides:

(i) An NSO of a determination of foreign availability resulting from an assessment initiated pursuant to section 5(f) of the EAA (claimant and self-initiated assessments); and

(ii) An NSO of a determination of foreign availability resulting from an assessment initiated pursuant to section 5(h) of the EAA (TAC-certification assessments).

(3) For an NSO resulting from an assessment initiated under section 5(f) of the EAA, the Secretary of any agency may recommend that the President exercise the authority under the EAA to retain the controls or deny the license notwithstanding the finding of foreign availability.

(4) For an NSO resulting from an assessment initiated under section 5(h) of the EAA, the Secretary of Commerce may recommend that the President exercise the authority under the EAA to retain the controls notwithstanding the finding of foreign availability.

(5) Under an NSO resulting from an assessment initiated under section 5(f) of the EAA, the Committee on Banking, Housing, and Urban Affairs of the Senate and the Committee on International Relations of the House of Representatives will be notified of the initiation of the required negotiations. The notice will include an explanation of the national security interest that necessitates the retention of controls.

(6) Under an NSO resulting from an assessment initiated under section 5(f) of the EAA, BIS will publish notices in the FEDERAL REGISTER consisting of:

(i) The Secretary's determination of foreign availability;

(ii) The President's decision to exercise the NSO;

(iii) A concise statement of the basis for the President's decision; and

(iv) An estimate of the economic impact of the decision.

(7) The 6 month effective period for an NSO may be extended up to an additional 12 months if, prior to the end of the 6 months, the President certifies to Congress that the negotiations are progressing, and determines that the absence of the controls would continue to be detrimental to the United States national security.

(8) After the conclusion of negotiations, BIS will retain the control only to the extent that foreign availability is eliminated. If foreign availability is not eliminated, BIS will decontrol the item by removing the requirement for a license for the export of the item to the destinations covered by the assessment. To the extent that the negotiations are successful and the foreign availability is eliminated, BIS will remove the license requirement for the export of the item to any country that has agreed to eliminate foreign availability.

(j) *Changes in foreign availability*. If BIS becomes aware of conditions, including new evidence, that affect a previous determination that foreign availability exists or does not exist, BIS may review the conditions. If BIS finds that the foreign availability previously determined no longer exists, or that foreign availability not earlier found now does exist, BIS will make a recommendation to the Secretary of Commerce for the appropriate changes in the control. The Secretary of Commerce will make a determination, and BIS will publish a FEDERAL REGISTER notice of the determination.

§ 768.8 Eligibility of expedited licensing procedures for non-controlled countries.

(a) BIS determines the eligibility of an item for expedited licensing procedures on the basis of an evaluation of the foreign availability of the item. Eligibility is specific to the items and the countries to which they are found to be available.

(b) BIS will initiate an eligibility evaluation:

(1) On its own initiative;

(2) On receipt of a FAS; or

(3) On receipt of a TAC certification.

(c) Upon initiation of an eligibility evaluation following receipt of either a

FAS or TAC certification, BIS will notify the claimant or TAC of the receipt and initiation of an evaluation and publish a FEDERAL REGISTER notice of the initiation of the evaluation.

(d) The criteria for determining eligibility for expedited licensing procedures are:

(1) The item must be available-in-fact to the specified

non-controlled country from a foreign source;

(2) The item must be of a quality similar to that of the U.S.-controlled item; and

(3) The item must be available-in-fact to the specified non-controlled country without effective restrictions.

(e) Within 30 days of initiation of the evaluation, the Secretary of Commerce will make a determination of foreign availability on the basis of the BIS evaluation and recommendation, taking into consideration the evidence the Secretaries of Defense, State, and other interested agencies provide to BIS and any other information that the Secretary considers relevant.

(f) Within 30 days of the receipt of the FAS or TAC certification, BIS will publish the Secretary's determination in the FEDERAL REGISTER, that the item will or will not be eligible for expedited licensing procedures to the stated countries and, where appropriate, amend supplement no. 2 to part 768.

(g) Following completion of a self-initiated evaluation, BIS will be notified of the Secretary's determination and, where appropriate, supplement no. 2 to part 768 will be amended.

(h) Foreign availability submissions and TAC certifications to initiate an expedited licensing procedure evaluation must be clearly designated on their face as a request for expedited licensing procedure and must specify the items, quantities and countries alleged eligible. Submissions and certifications should be sent to: Department of Commerce, Bureau of Industry and Security, Room H–1093, 14th Street and Pennsylvania Avenue, NW., Washington, DC 20230.

[61 FR 12915, Mar. 25, 1996, as amended at 72 FR 25196, May 4, 2007]

§ 768.9 Appeals of negative foreign availability determinations.

Appeals of negative determinations will be conducted according to the standards and procedures described in part 756 of the EAR. A Presidential decision (NSO) to deny a license or continue controls notwithstanding a determination of foreign availability is not subject to appeal.

§ 768.10 Removal of controls on less sophisticated items.

Where the Secretary has removed national security controls on an item for foreign availability reasons, the Secretary will also remove controls on similar items that are controlled for national security reasons and whose functions, technological approach, performance thresholds, and other attributes that form the basis for national security export controls do not exceed the technical parameters of the item that BIS has decontrolled for foreign availability reasons.

SUPPLEMENT NO. 1 TO PART 768—EVIDENCE OF FOREIGN AVAILABILITY

This supplement provides a list of examples of evidence that the Bureau of Industry and Security (BIS) has found to be useful in conducting assessments of foreign availability. A claimant submitting evidence supporting a claim of foreign availability should review this list for suggestions as evidence is collected. Acceptable evidence indicating possible foreign availability is not limited to these examples, nor is any one of these examples, usually, in and of itself, necessarily sufficient to meet a foreign availability criterion. A combination of several types of evidence for each criterion usually is required. A Foreign Availability Submission (FAS) should include as much evidence as possible on all four of the criteria listed below. BIS combines the submitted evidence with the evidence that it collects from other sources. BIS evaluates all evidence, taking into account factors that may include, but are not limited to: Information concerning the source of the evidence, corroborative or contradictory indications, and experience concerning the reliability or reasonableness of such evidence. BIS will assess all relevant evidence to determine whether each of the four criteria has been met. Where possible, all information should be in writing. If information is based on third party documentation, the submitter should provide such documentation to BIS. If information is based on oral statements a third party made, the

submitter should provide a memorandum of the conversation to BIS if the submitter cannot obtain a written memorandum from the source. BIS will amend this informational list as it identifies new examples of evidence.

(a) Examples of evidence of foreign availability:

The following are intended as examples of evidence that BIS will consider in evaluating foreign availability. BIS will evaluate all evidence according to the provisions in §768.7(c) of this part in order for it to be used in support of a foreign availability determination. This list is illustrative only.

(1) *Available-in-fact:*

(i) Evidence of marketing of an item in a foreign country (e.g., an advertisement in the media of the foreign country that the item is for sale there);

(ii) Copies of sales receipts demonstrating sales to foreign countries;

(iii) The terms of a contract under which the item has been or is being sold to a foreign country;

(iv) Information, preferably in writing, from an appropriate foreign government official that the government will not deny the sale of an item it produces to another country in accordance with its laws and regulations;

(v) Information, preferably in writing, from a named company official that the company legally can and would sell an item it produces to a foreign country;

(vi) Evidence of actual shipments of the item to foreign countries (e.g., shipping documents, photographs, news reports);

(vii) An eyewitness report of such an item in operation in a foreign country, providing as much information as available, including where possible the make and model of the item and its observed operating characteristics;

(viii) Evidence of the presence of sales personnel or technical service personnel in a foreign country;

(ix) Evidence of production within a foreign country;

(x) Evidence of the item being exhibited at a trade fair in a foreign country, particularly for the purpose of inducing sales of the item to the foreign country;

(xi) A copy of the export control laws or regulations of the source country, showing that the item is not controlled; or

(xii) A catalog or brochure indicating the item is for sale in a specific country.

(2) *Foreign (non-U.S.) source:*

(i) Names of foreign manufacturers of the item including, if possible, addresses and telephone numbers;

(ii) A report from a reputable source of information on commercial relationships that a foreign manufacturer is not linked financially or administratively with a U.S. company;

(iii) A list of the components in the U.S. item and foreign item indicating model numbers and their sources;

(iv) A schematic of the foreign item identifying its components and their sources;

(v) Evidence that the item is a direct product of foreign technology (e.g., a patent law suit lost by a U.S. producer, a foreign patent);

(vi) Evidence of indigenous technology, production facilities, and the capabilities at those facilities; or

(vii) Evidence that the parts and components of the item are of foreign origin or are exempt from U.S. licensing requirements by the parts and components provision §732.4 of the EAR.

(3) *Sufficient quantity:*

(i) Evidence that foreign sources have the item in serial production;

(ii) Evidence that the item or its product is used in civilian applications in foreign countries;

(iii) Evidence that a foreign country is marketing in the specific country an item of its indigenous manufacture;

(iv) Evidence of foreign inventories of the item;

(v) Evidence of excess capacity in a foreign country's production facility;

(vi) Evidence that foreign countries have not targeted the item or are not seeking to purchase it in the West;

(vii) An estimate by a knowledgeable source of the foreign country's needs; or

(viii) An authoritative analysis of the worldwide market (i.e., demand, production rate for the item for various manufacturers, plant capacities, installed tooling, monthly production rates, orders, sales and cumulative sales over 5–6 years).

(4) *Comparable quality:*

(i) A sample of the foreign item;

(ii) Operation or maintenance manuals of the U.S. and foreign items;

(iii) Records or a statement from a user of the foreign item;

(iv) A comparative evaluation, preferably in writing, of the U.S. and foreign items by, for example, a western producer or purchaser of the item, a recognized expert, a reputable trade publication, or independent laboratory;

(v) A comparative list identifying, by manufacturers and model numbers, the key performance components and the materials used in the item that qualitatively affect the performance of the U.S. and foreign items;

(vi) Evidence of the interchangeability of U.S. and foreign items;

(vii) Patent descriptions for the U.S. and foreign items;

(viii) Evidence that the U.S. and foreign items meet a published industry, national, or international standard;

(ix) A report or eyewitness account, by deposition or otherwise, of the foreign item's operation;

(x) Evidence concerning the foreign manufacturers' corporate reputation;

(xi) Comparison of the U.S. and foreign end item(s) made from a specific commodity, tool(s), device(s), or technical data; or

(xii) Evidence of the reputation of the foreign item including, if possible, information on maintenance, repair, performance, and other pertinent factors.

SUPPLEMENT NO. 2 TO PART 768—ITEMS ELIGIBLE FOR EXPEDITED LICENSING PROCEDURES [RESERVED]

PART 770—INTERPRETATIONS

Sec.
770.1 Introduction.
770.2 Item interpretations.
770.3 Interpretations related to exports of technology and software to destinations in Country Group D:1.

AUTHORITY: 50 U.S.C. 4601 *et seq.;* 50 U.S.C. 1701 *et seq.;* E.O. 13222, 66 FR 44025, 3 CFR, 2001 Comp., p. 783; Notice of August 4, 2016, 81 FR 52587 (August 8, 2016).

§ 770.1 Introduction.

In this part, references to the EAR are references to 15 CFR chapter VII, subchapter C. This part provides commodity, technology, and software interpretations. These interpretations clarify the scope of controls where such scope is not readily apparent from the Commerce Control List (CCL) (see supplement no. 1 to part 774 of the EAR) and other provisions of the Export Administration Regulations.

§ 770.2 Item interpretations.

(a) *Interpretation 1: Anti-friction bearing or bearing systems and specially designed parts.* (1) Anti-friction bearings or bearing systems shipped as spares or replacements are classified under Export Control Classification Number (ECCN) 2A001 (ball, roller, or needle-roller bearings and parts). This applies to separate shipments of anti-friction bearings or bearing systems and anti-friction bearings or bearing systems shipped with machinery or equipment for which they are intended to be used as spares or replacement parts.

(2) An anti-friction bearing or bearing system physically incorporated in a segment of a machine or in a complete machine prior to shipment loses its identity as a bearing. In this scenario, the machine or segment of machinery containing the bearing is the item subject to export control requirements.

(3) An anti-friction bearing or bearing system not incorporated in a segment of a machine prior to shipment, but shipped as a component of a complete unassembled (knocked-down) machine, is considered a component of a machine. In this scenario, the complete machine is the item subject to export license requirements.

(b) *Interpretation 2: Classification of ''parts'' of machinery, equipment, or other items*—(1) *An assembled machine or unit of equipment is being exported.* In instances where one or more assembled machines or units of equipment are being exported, the individual component parts that are physically incorporated into the machine or equipment do not require a license. The license or general exception under which the complete machine or unit of equipment is exported will also cover its component parts, provided that the parts are normal and usual components of the machine or equipment being exported, or that the physical incorporation is not used as a device to evade the requirement for a license.

(2) *Parts are exported as spares, replacements, for resale, or for stock.* In instances where parts are exported as spares, replacements, for resale, or for stock, a license is required only if the appropriate entry for the part specifies that a license is required for the intended destination.

(c) [Reserved]

(d) *Interpretation 4: Telecommunications equipment and systems.* Control equipment for paging systems (broadcast radio or selectively signalled receiving systems) is defined as circuit switching equipment in Category 5 of the CCL.

(e) *Interpretation 5: Numerical control systems*—(1) *Classification of ''Numerical Control'' Units.* ''Numerical control'' units for machine tools, regardless of their configurations or architectures, are controlled by their functional characteristics as described in ECCN 2B001.a. ''Numerical control'' units include computers with add-on ''motion control boards''. A computer with add-on ''motion control boards'' for machine tools may be controlled under ECCN 2B001.a even when the computer

alone without ''motion control boards'' is not subject to licensing requirements under Category 4 and the ''motion control boards'' are not controlled under ECCN 2B001.b.

(2) *Export documentation requirement.* (i) When preparing a license application for a numerical control system, the machine tool and the control unit are classified separately. If either the machine tool or the control unit requires a license, then the entire unit requires a license. If either a machine tool or a control unit is exported separately from the system, the exported component is classified on the license application without regard to the other parts of a possible system.

(ii) When preparing the Electronic Export Information (EEI) on the Automated Export System (AES), a system being shipped complete (i.e., machine and control unit), should be reported under the Schedule B number for each machine. When either a control unit or a machine is shipped separately, it should be reported under the Schedule B number appropriate for the individual item being exported.

(f) *Interpretation 6: ''Parts,'' ''accessories,'' and equipment exported as scrap.* ''Parts,'' ''accessories,'' or equipment that are being shipped as scrap should be described on the EEI filing to the AES in sufficient detail to be identified under the proper ECCN. When commodities declared as ''parts,'' ''accessories,'' or equipment are shipped in bulk, or are otherwise not packaged, packed, or sorted in accordance with normal trade practices, the Customs Officer may require evidence that the shipment is not scrap. Such evidence may include, but is not limited to, bills of sale, orders and correspondence indicating whether the commodities are scrap or are being exported for use as ''parts,'' ''accessories,'' or equipment.

(g) *Interpretation 7: Scrap arms, ammunition, and implements of war.* Arms, ammunition, and implements of war, as defined in the U.S. Munitions List, and are under the jurisdiction of the U.S. Department of State (22 CFR parts 120 through 130), except for the following, which are under the jurisdiction of the Department of Commerce:

(1) Cartridge and shell cases that have been rendered useless beyond the possibility of restoration to their original identity by means of excessive heating, flame treatment, mangling, crushing, cutting, or by any other method are ''scrap''.

(2) Cartridge and shell cases that have been sold by the armed services as ''scrap'', whether or not they have been heated, flame-treated, mangled, crushed, cut, or reduced to scrap by any other method.

(3) Other commodities that may have been on the U.S. Munitions List are ''scrap'', and therefore under the jurisdiction of the Department of Commerce, if they have been rendered useless beyond the possibility of restoration to their original identity only by means of mangling, crushing, or cutting. When in doubt as to whether a commodity covered by the Munitions List has been rendered useless, exporters should consult the Directorate of Defense Trade Controls, U.S. Department of State, Washington, DC 20520, or the Exporter Counseling Division, Office of Exporter Services, Room 1099A, U.S. Department of Commerce, Washington, DC 20230, before reporting a shipment as metal scrap.

(h)–(j) [Reserved]

(k) *Interpretation 11: Precursor chemicals.* The following chemicals are controlled by ECCN 1C350. The appropriate Chemical Abstract Service Registry (C.A.S.) number and synonyms (i.e., alternative names) are included to help you determine whether or not your chemicals are controlled by this entry.

(1) (C.A.S. #1341–49–7) Ammonium hydrogen bifluoride
Acid ammonium fluoride
Ammonium bifluoride
Ammonium difluoride
Ammonium hydrofluoride
Ammonium hydrogen bifluoride
Ammonium hydrogen difluoride
Ammonium monohydrogen difluoride

(2) (C.A.S. #7784–34–1) Arsenic trichloride
Arsenic (III) chloride
Arsenous chloride
Fuming liquid arsenic
Trichloroarsine

(3) (C.A.S. #76–93–7) Benzilic acid
.alpha.,.alpha.-Diphenyl-.alpha.-hydroxyacetic acid
Diphenylglycolic acid
.alpha.,.alpha.-Diphenylglycolic acid

Diphenylhydroxyacetic acid
.alpha.-Hydroxy-2,2-diphenylacetic acid
2-Hydroxy-2,2-diphenylacetic acid
.alpha.-Hydroxy-.alpha.-phenylbenzeneacetic acid
Hydroxydiphenylacetic acid
(4) (C.A.S. #107–07–3) 2-Chloroethanol
2-Chloro-1-ethanol
Chloroethanol
2-Chloroethyl alcohol
Ethene chlorohydrin
Ethylchlorohydrin
Ethylene chlorhydrin
Ethylene chlorohydrin
Glycol chlorohydrin
Glycol monochlorohydrin
2-Hydroxyethyl chloride
(5) (C.A.S. #78–38–6) Diethyl ethylphosphonate Ethylphosphonic acid diethyl ester
(6) (C.A.S. #15715–41–0) Diethyl methylphosphonite
Diethoxymethylphosphine
Diethyl methanephosphonite
0,0-Diethyl methylphosphonite
Methyldiethoxyphosphine
Methylphosphonous acid diethyl ester
(7) (C.A.S. #2404–03–7) Diethyl-N, N-dimethylphosphoro-amidate
N,N-Dimethyl-O,O′-diethyl phosphoramidate
Diethyl dimethylphosphoramidate
Dimethylphosphoramidic acid diethyl ester
(8) (C.A.S. #762–04–9) Diethyl phosphite
Diethoxyphosphine oxide
Diethyl acid phosphite
Diethyl hydrogen phosphite
Diethyo phosphonate
Hydrogen diethyl phosphite
(9) (C.A.S. #100–37–8) N, N-Diethylethanolamine
N,N-Diethyl-2-aminoethanol
Diethyl (2-hydroxyethyl) amine
N,N-Diethyl-N-(.beta.-hydroxyethyl) amine
N,N-Diethyl-2-hydroxyethylamine
Diethylaminoethanol
2-(Diethylamino) ethanol
2-(Diethylamino)ethyl alcohol
N,N-Diethylmonoethanolamine
(2-Hydroxyethyl) diethylamine
2-Hydroxytriethylamine
(10) (C.A.S. #5842–07–9) N,N-Diisopropyl-.beta.-aminoethane thiol
2-(Diisopropylamino) ethanethiol
Diisopropylaminoethanethiol
.beta.-Diisopropylaminoethanethiol
2-(bis(1-Methylethyl)amino) ethanethiol
(11) (C.A.S. #4261–68–1) N, N-Diisopropyl-.2-aminoethyl chloride hydrochloride
(12) (C.A.S. #96–80–0) N,N-Diisopropyl-.beta.-aminoethanol
N,N-Diisopropyl-2-aminoethanol
2-(Diisopropylamino) ethanol
(N,N-Diisopropylamino) ethanol
2-(Diisopropylamino) ethyl alcohol
N,N-Diisopropylethanolamine
(13) (C.A.S. #96–79–7) N,N-Diisopropyl-.beta.-aminoethyl chloride
2-Chloro-N,N-diisopropylethanamine
1-Chloro-N,N-diisopropylaminoethane
2-Chloro-N,N-diisopropylethylamine
N-(2-chloroethyl)-N-(1-methylethyl)-2-propanamine
N-(2-Chloroethyl) diisopropylamine
N,N-Diisopropyl-2-chloroethylamine
1-(Diisopropylamino)-2-cholorethane
2-(Diisopropylamino)ethyl chloride
Diisopropylaminoethyl chloride
.beta.-Diisopropylaminoethyl chloride
(14) (C.A.S. #108–18–9) Diisopropylamine
N,N-Diisopropylamine
N-(1-Methylethyl)-2-propanamine
(15) (C.A.S. #6163–75–3) Dimethyl ethylphosphonate
Dimethyl ethanephosphonate
Ethylphosphonic acid dimethyl ester
(16) (C.A.S. #756–79–6) Dimethyl methylphosphonate
Dimethoxymethyl phosphine oxide
Dimethyl methanephosphonate
Methanephosphonic acid dimethyl ester
Methylphosphonic acid dimethyl ester
(17) (C.A.S. #868–85–9) Dimethyl phosphite
Dimethoxyphosphine oxide
Dimethyl acid phosphite
Dimethyl hydrogen phosphite
Dimethyl phosphonate
Hydrogen dimethyl phosphite
Methyl phosphate
(18) (C.A.S. #124–40–3) Dimethylamine
N-Methyl methanamine
(19) (C.A.S. #506–59–2) Dimethylamine hydrochloride
Dimethylammonium chloride
N-Methyl methanamine hydrochloride

(20) [Reserved]
(21) (C.A.S. #1498–40–4) Ethylphosphonous dichloride
Dichloroethylphosphine
Ethyl phosphonous dichloride
Ethyldichlorophosphine
(22) (C.A.S. #430–78–4) Ethylphosphonus difluoride
Ethyldifluorophosphine
(23) (C.A.S. #1066–50–8) Ethylphosphonyl dichloride
Dichloroethylphosphine oxide
Ethanephosphonyl chloride
Ethylphosphinic dichloride
Ethylphosphonic acid dichloride
Ethylphosphonic dichloride
(24) [Reserved]
(25) (C.A.S. #7664–39–3) Hydrogen fluoride
Anhydrous hydrofluoric acid
Fluorhydric acid
Fluorine monohydride
Hydrofluoric acid gas
(26) (C.A.S. #3554–74–3) 3-Hydroxyl-1-methylpiperidine
3-Hydroxy-N-methylpiperidine
1-Methyl-3-hydroxypiperidine
N-Methyl-3-hydroxypiperidine
1-Methyl-3-piperidinol
N-Methyl-3-piperidinol
(27) (C.A.S. #76–89–1) Methyl benzilate
Benzilic acid methyl ester
.alpha.-Hydroxy-.alpha.-phenylbenzeneacetic acid methyl ester
Methyl .alpha.-phenylmandelate
Methyl diphenylglycolate
(28)–(31) [Reserved]
(32) (C.A.S. #10025–87–3) Phosphorus oxychloride
Phosphonyl trichloride
Phosphoric chloride
Phosphoric trichloride
Phosphoroxychloride
Phosphoroxytrichloride
Phosphorus chloride oxide
Phosphorus monoxide trichloride
Phosphorus oxide trichloride
Phosphorus oxytrichloride
Phosphorus trichloride oxide
Phosphoryl trichloride
Trichlorophosphine oxide
Trichlorophosphorus oxide
(33) (C.A.S. #10026–13–8) Phosphorus pentachloride
Pentachlorophosphorane
Pentachlorophosphorus
Phosphoric chloride
Phosphorus(V) chloride
Phosphorus perchloride
(34) (C.A.S. #1314–80–3) Phosphorus pentasulfide
Diphosphorus pentasulfide
Phosphoric sulfide
Phosphorus persulfide
Phosphorus sulfide
(35) (C.A.S. #7719–12–2) Phosphorus trichloride
Phosphorus chloride
Trichlorophosphine
(36) C.A.S. #75–97–8) Pinacolone
tert-Butyl methyl ketone
2,2-Dimethyl-3-butanone
3,3-Dimethyl-2-butanone
2,2-Dimethylbutanone
3,3-Dimethylbutanone
1,1-Dimethylethyl methyl ketone
Methyl tert-butyl ketone
Pinacolin
Pinacoline
1,1,1-Trimethylacetone
(37) (C.A.S. #464–07–3) Pinacolyl alcohol
tert-Butyl methyl carbinol
2,2-Dimethyl-3-butanol
3,3-Dimethyl-2-butanol
1-Methyl-2,2-dimethylpropanol
(38) (C.A.S. #151–50–8) Potassium cyanide
(39) (C.A.S. #7789–23–3) Potassium fluoride
Potassium monofluoride
(40) (C.A.S. #7789–29–9) Potassium hydrogen fluoride
Hydrogen potassium difluoride
Hydrogen potassium fluoride
Potassium acid fluoride
Potassium bifluoride
Potassium hydrogen difluoride
Potassium monohydrogen difluoride
(41) (C.A.S. #1619–34–7) 3-Quinuclidinol
1-Azabicyclo(2.2.2)octan-3-ol
3-Hydroxyquinuclidine
(42) (C.A.S. #3731–38–2) 3-Quinuclidinone
1-Azabicyclo(2.2.2)octan-3-one
3-Oxyquinuclidine
Quinuclidone
(43) (C.A.S.) #1333–83–1) Sodium bifluoride
Sodium hydrogen difluoride
Sodium hydrogen fluoride
(44) (C.A.S. #143–33–9) Sodium cyanide
(45) (C.A.S. #7681–49–4) Sodium fluoride
Sodium monofluoride
(46) (C.A.S. #1313–82–2) Sodium sulfide

Disodium monosulfide
Disodium sulfide
Sodium monosulfide
Sodium sulphide

(47) (C.A.S. #10025–67–9) Sulfur Monochloride

(48) (C.A.S. #10545–99–0) Sulfur dicholoride

(49) (C.A.S. #111–48–8) Thiodiglycol
Bis(2-hydroxyethyl) sulfide
Bis(2-hydroxyethyl) thioether
Di(2-hydroxyethyl) sulfide
Diethanol sulfide
2,2′-Dithiobis-(ethanol)
3-Thiapentane-1,5-diol
2,2′-Thiobisethanol
2,2′-Thiodiethanol
Thiodiethylene glycol
2,2′-Thiodiglycol

(50) C.A.S. #7719–09–7) Thionyl chloride
Sulfinyl chloride
Sulfinyl dichloride
Sulfur chloride oxide
Sulfur oxychloride
Sulfurous dichloride
Sulfurous oxychloride
Thionyl dichloride

(51) (C.A.S. #102–71–6) Triethanolamine
Alkanolamine 244
Nitrilotriethanol
2,2′,2″-Nitrilotriethanol
2,2′,2″-Nitrilotris(ethanol)
TEA
TEA (amino alcohol)
Tri (2-hydroxyethyl) amine
Triethanolamin
Tris (.beta.-hydroxyethyl) amine
Tris (2-hydroxyethyl) amine
Trolamine

(52) (C.A.S. #637–39–8) Triethanolamine hydrochloride

(53) (C.A.S. #122–52–1) Triethyl phosphite
Phosphorous acid triethyl ester
Triethoxyphosphine
Tris(ethoxy)phosphine

(54) (C.A.S. #121–45–9) Trimethyl phosphite
Phosphorus acid trimethyl ester
Trimethoxyphosphine

(l) *Interpretation 12: Computers.* (1) Digital computers or computer systems classified under ECCN 4A003.b or .c, that qualify for ''No License Required'' (NLR) must be evaluated on the basis of Adjusted Peak Performance (APP) alone, to the exclusion of all other technical parameters. Digital computers or computer systems classified under ECCN 4A003.b or .c that qualify for License Exception APP must be evaluated on the basis of APP, to the exclusion of all other technical parameters. Assemblies performing analog-to-digital conversions are evaluated under Category 3—Electronics, ECCN 3A002.h.

(2) Related equipment classified under ECCN 4A003.g may be exported or reexported under License Exceptions GBS or CIV. When related equipment is exported or reexported as part of a computer system, NLR or License Exception APP is available for the computer system and the related equipment, as appropriate.

(m) *Interpretation 13: Encryption commodities and software controlled for EI reasons.* Encryption commodities and software controlled for EI reasons under ECCNs 5A002, 5A004 and 5D002 may be pre-loaded on a laptop, handheld device or other computer or equipment and exported under the tools of trade provision of License Exception TMP or the personal use exemption under License Exception BAG, subject to the terms and conditions of such License Exceptions. Neither License Exception TMP nor License Exception BAG contains a reporting requirement. Like other ''information security'' ''software,'' components, ''electronic assemblies'' or modules, the control status of encryption commodities and software is determined in Category 5—Part 2 even if they are bundled, commingled or incorporated in a computer or other equipment. However, commodities and software specially designed for medical end use that incorporate an item in Category 5—Part 2 are not controlled in Category 5—Part 2. See paragraph (a) of supplement no. 3 to part 774 (Statements of Understanding) of the EAR.

(n) *Interpretation 14: Unfinished ''600 series'' commodities.* Forgings, castings, and other unfinished products, such as extrusions and machined bodies, that have reached a stage in manufacturing where they are clearly identifiable by mechanical properties, material composition, geometry, or function as commodities controlled by any Product Group A (''End Items,'' ''Equipment,''

''Accessories,'' ''Attachments,'' ''Parts,'' ''Components'' and ''Systems'') ''600 series'' ECCN are controlled in that ''600 series'' ECCN.

[61 FR 12920, Mar. 25, 1996]

EDITORIAL NOTE: For FEDERAL REGISTER citations affecting § 770.2, see the List of CFR Sections Affected, which appears in the Finding Aids section of the printed volume and at *www.fdsys.gov*.

§ 770.3 Interpretations related to exports of technology and software to destinations in Country Group D:1.

(a) *Introduction*. This section is intended to provide you additional guidance on how to determine whether your technology or software would be eligible for a License Exception, may be exported under NLR, or require a license, for export to Country Group D:1.

(b) *Scope of licenses*. The export of technology and software under a license is authorized only to the extent specifically indicated on the face of the license. The only technology and software related to equipment exports that may be exported without a license is technology described in §§ 734.7 through 734.11 of the EAR; operating technology and software described in § 740.13(a) of the EAR; sales technology described in § 740.13(b) of the EAR; and software updates described in § 740.13(c) of the EAR.

(c) *Commingled technology and software*. (1) U.S.-origin technology does not lose its U.S.-origin when it is redrawn, used, consulted, or otherwise commingled abroad in any respect with other technology of any other origin. Therefore, any subsequent or similar technical data prepared or engineered abroad for the design, construction, operation, or maintenance of any plant or equipment, or part thereof, which is based on or utilizes any U.S.-origin technology, is subject to the EAR in the same manner as the original U.S.-origin technology, including license requirements, unless the commingled technology is not subject to the EAR by reason of the *de minimis* exclusions described in § 734.4 of the EAR.

(2) U.S.-origin software that is incorporated into or commingled with foreign-origin software does not lose its U.S.-origin. Such commingled software is subject to the EAR is the same manner as the original U.S.-origin software, including license requirements, unless the commingled software is not subject to the EAR by reason of the *de minimis* exclusions described in § 734.4 of the EAR.

(d) *Certain License Exception*. The following questions and answers are intended to further clarify the scope of technology and software eligible for a License Exception.

(1)(i) *Question 1*. (A) Our engineers, in installing or repairing equipment, use techniques (experience as well as proprietary knowledge of the internal componentry or specifications of the equipment) that exceed what is provided in the standard manuals or instructions (including training) given to the customer. In some cases, it is also a condition of the license that such information provided to the customer be constrained to the minimum necessary for normal installation, maintenance and operation situations.

(B) Can we send an engineer (with knowledge and experience) to the customer site to perform the installation or repair, under the provisions of License Exception TSU for operation technology and software described in § 740.13(a) of the EAR, if it is understood that he is restricted by our normal business practices to performing the work without imparting the knowledge or technology to the customer personnel?

(ii) *Answer 1*. Export of technology includes release of U.S.-origin data in a foreign country, and ''release'' includes ''application to situations abroad of personal knowledge or technical experience acquired in the United States.'' As the release of technology in the circumstances described here would exceed that permitted under the License Exception TSU for operation technology and software described in § 740.13(a) of the EAR, a license would be required even though the technician could apply the data without disclosing it to the customer.

(2)(i) *Question 2*. We plan, according to our normal business practices, to train customer engineers to maintain equipment that we have exported under a license, License Exception, or NLR. The training is contractual in nature, provided for a fee, and is scheduled to

take place in part in the customer's facility and in part in the U.S. Can we now proceed with this training at both locations under a License Exception?

(ii) *Answer 2.* (A) Provided that this is your normal training, and involves technology contained in your manuals and standard instructions for the exported equipment, and meets the other requirements of License Exception TSU for operation technology and software described in § 740.13(a), the training may be provided within the limits of those provisions of License Exception TSU. The location of the training is not significant, as the export occurs at the time and place of the actual transfer or imparting of the technology to the customer's engineers.

(B) Any training beyond that covered under the provisions of License Exception TSU for operation technology and software described in § 740.13(a), but specifically represented in your license application as required for this customer installation, and in fact authorized on the face of the license or a separate technology license, may not be undertaken while the license is suspended or revoked.

[61 FR 12920, Mar. 25, 1996, as amended at 61 FR 64286, Dec. 4, 1996; 62 FR 25470, May 9, 1997; 65 FR 14860, Mar. 20, 2000]

PART 772—DEFINITIONS OF TERMS

AUTHORITY: 50 U.S.C. 4601 *et seq.;* 50 U.S.C. 1701 *et seq.;* E.O. 13222, 66 FR 44025, 3 CFR, 2001 Comp., p. 783; Notice of August 4, 2016, 81 FR 52587 (August 8, 2016).

SOURCE: 61 FR 12925, Mar. 25, 1996, unless otherwise noted.

§ 772.1 Definitions of terms as used in the Export Administration Regulations (EAR).

The following are definitions of terms as used in the Export Administration Regulations (EAR). In this part, references to the EAR are references to 15 CFR chapter VII, subchapter C. Those terms in quotation marks refer to terms used on the Commerce Control List (CCL) (supplement no. 1 to part 774 of the EAR). Parenthetical references following the terms in quotation marks (i.e., (Cat 5)) refer to the CCL category in which that term is found. If a term is used in only one Export Control Classification Number (ECCN) on the CCL, then that term will *not* appear in this part, but will be defined in the Related Definitions paragraph in the List of Items Controlled Section of that ECCN.

600 series. ECCNs in the ''xY6zz'' format on the Commerce Control List (CCL) that control items on the CCL that were previously controlled on the U.S. Munitions List or that are covered by the Wassenaar Arrangement Munitions List (WAML). The ''6'' indicates the entry is a munitions entry on the CCL. The ''x'' represents the CCL category and ''Y'' the CCL product group. The ''600 series'' constitutes the munitions ECCNs within the larger CCL.

600 Series Major Defense Equipment or *MDE.* Any item listed in ECCN 9A610.a, 9A619.a, 9A619.b or 9A619.c, having a nonrecurring research and development cost of more than $50,000,000 or a total production cost of more than $200,000,000.

NOTE TO ''600 SERIES MAJOR DEFENSE EQUIPMENT'': For the most current list of MDE, see Appendix 1, (Nonrecurring Cost Recoupment Charges for Major Defense Equipment) to DoD 5105.38–M, ''Security Assistance Management Manual (SAMM),'' dated 04/30/2012, available online at *http://www.dsca.osd.mil/samm /ESAMM/ Appendix01.htm.*

Access information. Information that allows access to encrypted technology or encrypted software in an unencrypted form. Examples include decryption keys, network access codes, and passwords.

Accessories. These are associated items for any ''component,'' ''end item,'' or ''system,'' and which are not necessary for their operation, but which enhance their usefulness or effectiveness. For example, for a riding lawnmower, ''accessories'' and ''attachments'' will include the bag to capture the cut grass, and a canopy to protect the operator from the sun and rain. For purposes of this definition, ''accessories'' and ''attachments'' are the same.

Accuracy. (Cat 2, 3, 6, 7 and 8)—''Accuracy'' is usually measured in terms of inaccuracy. It is defined as the maximum deviation, positive or negative, of an indicated value from an accepted standard or true value.

Active flight control systems. (Cat 7)—Function to prevent undesirable ''aircraft'' and ''missile'' motions or structural loads by autonomously processing outputs from multiple sensors and then providing necessary preventive commands to effect automatic control.

Active pixel. (Cat 6 and 8)—A minimum (single) element of the solid state array that has a photoelectric transfer function when exposed to light (electromagnetic) radiation.

Adaptive control. (Cat 2)—A control system that adjusts the response from conditions detected during the operation (Ref. ISO 2806–1980).

Adjusted Peak Performance (APP). (Cat 4) An adjusted peak rate at which ''digital computers'' perform 64-bit or larger floating point additions and multiplications. The formula to calculate APP is contained in a technical note at the end of Category 4 of the Commerce Control List.

Advisory Committee on Export Policy (ACEP). The ACEP voting members include the Assistant Secretary of Commerce for Export Administration, and Assistant Secretary-level representatives from the Departments of State, Defense, Justice (for encryption exports), Energy, and the Arms Control and Disarmament Agency. The appropriate representatives of the Joint Chiefs of Staff and the Director of the Nonproliferation Center of the Central Intelligence Agency are non-voting members. The Assistant Secretary of Commerce for Export Administration is the Chair. Appropriate acting Assistant Secretary, Deputy Assistant Secretary or equivalent strength of any agency or department may serve in lieu of the Assistant Secretary of the concerned agency or department. Such representatives, regardless of rank, will speak and vote on behalf of their agencies or departments. The ACEP may invite Assistant Secretary-level representatives of other Government agencies or departments (other than those identified above) to participate in the activities of the ACEP when matters of interest to such agencies or departments are under consideration. Decisions are made by majority vote.

AES. See ''Automated Export System.''

Agricultural commodities. Agricultural commodities include food (including processed food); feed; fish; shellfish and fish products; beer, wine and spirits; livestock; fiber including cotton, wool and other fibers; tobacco and tobacco products; wood and wood products; seeds; fertilizer and organic fertilizer; reproductive materials such as fertilized eggs, embryos and semen. For the purposes of the EAR, agricultural commodities do not include furniture made from wood; clothing manufactured from plant or animal materials; agricultural equipment (whether hand tools or motorized equipment); pesticides, insecticides, or herbicides; or cosmetics (unless derived entirely from plant materials).

NOTE 1: This definition of agricultural commodities includes fertilizer and organic fertilizer, as listed in section 775 of the 2001 Agriculture, Rural Development, Food and Drug Administration, and Related Agencies Appropriations Act (Act) (Public Law 106–387) and commodities listed in section 102 of the Agricultural Trade Act of 1978 (7 U.S.C. 5602) as incorporated in section 902 of the Act, as well as commodities determined by the Department of Agriculture to fall within the scope of section 102 of the 1978 Agricultural Trade Act.

NOTE 2: For purposes of License Exception AGR (see §740.18 of the EAR), agricultural commodities also include vitamins, minerals, food additives and dietary supplements, and bottled water. These items do not fall within the scope of section 102 of the 1978 Agricultural Trade Act, but are treated as agricultural commodities for the purposes of License Exception AGR.

NOTE 3: For purposes of License Exception AGR and export license applications to Iran and Sudan under the licensing procedures set forth in the appropriate regulations promulgated and administered by Treasury's Office of Foreign Assets Control, agricultural commodities only include those that are classified as EAR99.

Aircraft. (Cat 1, 7, and 9)—A fixed wing, swivelwing, rotary wing (helicopter), tilt rotor or tilt-wing airborne vehicle. (See also ''civil aircraft''.)

Airline. Any person engaged primarily in the transport of persons or property by aircraft for compensation or hire, pursuant to authorization by the U.S. Government or a foreign government.

Airship. (Cat 2 and 9) A power-driven airborne vehicle that is kept buoyant

by a body of gas (usually helium, formerly hydrogen) which is lighter than air.

All compensations available. (Cat 2) means after all feasible measures available to the manufacturer to minimize all systematic positioning errors for the particular machine-tool model or measuring errors for the particular coordinate measuring machine are considered.

Allocated by the ITU. (Cat 3 and Cat 5 part 1)—The allocation of frequency bands according to the current edition of the ITU Radio Regulations for primary, permitted and secondary services.

N.B. Additional and alternative allocations are not included.

Angle random walk. (Cat 7) The angular error buildup with time that is due to white noise in angular rate. (IEEE STD 528–2001)

Angular position deviation. (Cat 2)—The maximum difference between angular position and the actual, very accurately measured angular position after the workpiece mount of the table has been turned out of its initial position. (Reference: VDI/VDE 2617, Draft: ''Rotary tables on coordinate measuring machines'').

''APP'' See ''Adjusted Peak Performance.'' This term may also appear without quotation marks.

Applicant. The person who applies for an export or reexport license, and who has the authority of a principal party in interest to determine and control the export or reexport of items. See §748.4 of the EAR and definition for ''exporter'' in this part of the EAR.

Asymmetric algorithm. (Cat 5) means a cryptographic algorithm using different, mathematically-related keys for encryption and decryption.

TECHNICAL NOTE: A common use of ''asymmetric algorithms'' is key management.

Attachments. These are associated items for any ''component,'' ''end item,'' or ''system,'' and which are not necessary for their operation, but which enhance their usefulness or effectiveness. For example, for a riding lawnmower, ''accessories'' and ''attachments'' will include the bag to capture the cut grass, and a canopy to protect the operator from the sun and rain. For purposes of this definition, ''attachments'' and ''accessories'' are the same.

Australia Group. The countries participating in the Australia Group have agreed to adopt harmonized controls on certain dual-use chemicals (i.e., precursor chemicals), biological agents, related manufacturing facilities and equipment, and related technology in order to ensure that exports of these items do not contribute to the proliferation of chemical or biological weapons. Countries participating in the Australia Group as of November 1, 2013, include: Argentina, Australia, Austria, Belgium, Bulgaria, Canada, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Japan, Korea (South), Latvia, Lithuania, Luxembourg, Malta, Mexico, the Netherlands, New Zealand, Norway, Poland, Portugal, Romania, Slovak Republic, Slovenia, Spain, Sweden, Switzerland, Turkey, Ukraine, the United Kingdom, and the United States. See also §742.2 of the EAR.

Automated Export System (AES). AES is a nationwide system operational at all ports and for all methods of transportation through which export shipment data required by multiple agencies is filed electronically to U.S. Customs and Border Protection, using the efficiencies of Electronic Data Interchange (EDI). AES allows the export information to be collected electronically and edited immediately. For more information about AES, visit the Bureau of Census Web site at: *http://www.census.gov/foreign-trade /aes/index.html* or see 15 CFR part 30 the Foreign Trade Regulations

Automatic target tracking. (Cat 6)—A processing technique that automatically determines and provides as output an extrapolated value of the most probable position of the target in real time.

Average Output Power. (Cat 6) The average output power is the total ''laser'' output energy, in joules, divided by the period over which a series of consecutive pulses is emitted, in seconds. For a series of uniformly spaced pulses it is

equal to the total ''laser'' output energy in a single pulse, in joules, multiplied by the pulse frequency of the ''laser,'' in Hertz.

Bank. Means any of the following:

(a) Bank, savings association, credit union, bank holding company, bank or savings association service corporation, Edge Act corporation, Agreement corporation, or any insured depository institution, which is organized under the laws of the United States or any State and regulated or supervised by a Federal banking agency or a State bank supervisor; or

(b) A company organized under the laws of a foreign country and regulated or supervised by a foreign bank regulatory or supervisory authority which engages in the business of banking, including without limitation, foreign commercial banks, foreign merchant banks and other foreign institutions that engage in banking activities usual in connection with the business of banking in the countries where such foreign institutions are organized or operating; or

(c) An entity engaged in the business of providing clearing or settlement services, that is, or whose members are, regulated or supervised by a Federal banking agency, a State bank supervisor, or a foreign bank regulatory or supervisory authority; or

(d) A branch or affiliate of any of the entities listed in paragraphs (a), (b), or (c) of this definition, regulated or supervised by a Federal banking agency, a State bank supervisor or a foreign bank regulatory or supervisory authority; or

(e) An affiliate of any of the entities listed in paragraph (a), (b), (c), or (d) of this definition, engaged solely in the business of providing data processing services to a bank or financial institution, or a branch of such an affiliate.

Basic gate propagation delay time. (Cat 3) The propagation delay time value corresponding to the basic gate used in a ''monolithic integrated circuit.'' For a 'family' of ''monolithic integrated circuits'', this may be specified either as the propagation delay time per typical gate within the given 'family' or as the typical propagation delay time per gate within the given 'family'.

TECHNICAL NOTES: 1. ''Basic gate propagation delay time'' is not to be confused with the input/output delay time of a complex ''monolithic integrated circuit.''

2. 'Family' consists of all integrated circuits to which all of the following are applied as their manufacturing methodology and specifications except their respective functions:

a. The common hardware and software architecture;

b. The common design and process technology; *and*

c. The common basic characteristics.

Basic Scientific Research. (GTN)—Experimental or theoretical work undertaken principally to acquire new knowledge of the fundamental principles of phenomena or observable facts, not primarily directed towards a specific practical aim or objective.

Bias. (accelerometer) (Cat 7)—The average over a specified time of accelerometer output measured at specified operating conditions, that has no correlation with input acceleration or rotation. ''Bias'' is expressed in g or in meters per second^2 (g or m/s^2) (IEEE Std 528–2001) (Micro g equals $1x10^{-6}$ g).

''Bias''. (gyro) (Cat 7) The average over a specified time of gyro output measured at specified operating conditions that has no correlation with input rotation or acceleration. ''Bias'' is typically expressed in degrees per hour (deg/hr). (IEEE Std 528–2001).

Bill of Lading. The contract of carriage and receipt for items, issued by the carrier. It includes an air waybill, but does not include an inland bill of lading or a domestic air waybill covering movement to port only.

Build-to-Print technology. (1) This is ''production'' ''technology'' that is sufficient for an inherently capable end user to produce or repair a commodity from engineering drawings without any of the following:

(i) Revealing ''development'' ''technology,'' such as design methodology, engineering analysis, detailed process or manufacturing know-how;

(ii) Revealing the production engineering or process improvement aspect of the ''technology;'' or

(iii) Requiring assistance from the provider of the technology to produce or repair the commodity.

(2) Acceptance, test, or inspection criteria pertaining to the commodity

at issue is included within the scope of ''build-to-print technology'' only if it is necessary to verify that the commodity is acceptable.

Business Unit. As applied to encryption items, means a unit of a business which, whether or not separately incorporated, has:

(a) A distinct organizational structure which does not overlap with other business units of the same business;

(b) A distinct set of accounts; and

(c) Separate facilities for purchase, sale, delivery, and production of goods and services.

CCL. See Commerce Control List.

CCL Group. The Commerce Control List (CCL) is divided into 10 categories. Each category is subdivided into five groups, designated by the letters A through E: (A) Equipment, assemblies and components; (B) Test, inspection and production equipment; (C) Materials; (D) Software; and (E) Technology. See § 738.2(b) of the EAR.

Camming. (axial displacement) (Cat 2)—Axial displacement in one revolution of the main spindle measured in a plane perpendicular to the spindle faceplate, at a point next to the circumference of the spindle faceplate (Ref.: ISO 230 Part 1–1986, paragraph 5.63).

Canadian airline. Any citizen of Canada who is authorized by the Canadian Government to engage in business as an airline. For purposes of this definition, a Canadian citizen is:

(a) A natural person who is a citizen of Canada; or

(b) A partnership of which each member is such an individual; or

(c) A Canadian firm incorporated or otherwise organized under the laws of Canada or any Canadian province, having a total foreign stock interest not greater than 40 percent and having the Chairman or Acting Chairman and at least two-thirds of the Directors thereof Canadian citizens.

Capable of. (MTCR context)—See ''usable in''.

Carbon fiber preforms. (Cat 1) means an ordered arrangement of uncoated or coated fibers intended to constitute a framework of a part before the ''matrix'' is introduced to form a ''composite.''

Category. The Commerce Control List (CCL) is divided into ten categories: (0) Nuclear Materials, Facilities and Equipment, and Miscellaneous; (1) Materials, Chemicals, ''Microorganisms'', and Toxins; (2) Materials Processing; (3) Electronics Design, Development and Production; (4) Computers; (5) Telecommunications and Information Security; (6) Sensors; (7) Navigation and Avionics; (8) Marine; (9) Propulsion Systems, Space Vehicles, and Related Equipment. See § 738.2(a) of the EAR.

Chemical laser. (Cat 6)—A ''laser'' in which the excited species is produced by the output energy from a chemical reaction.

Chemical Weapons Convention (CWC). Means ''The Convention on the Prohibition of the Development, Production, Stockpiling and Use of Chemical Weapons and on Their Destruction'', opened for signature on January 13, 1993.

Circular Error Probable. (''CEP'') (Cat 7) In a circular normal distribution, the radius of the circle containing 50% of the individual measurements being made, or the radius of the circle within which there is a 50% probability of being located.

Circulation-controlled, anti-torque or circulation-controlled direction control systems (Cat 7)—Control systems using air blown over aerodynamic surfaces to increase or control the forces generated by the surfaces.

Civil aircraft. (Cat 1, 3, 4, 7 and 9) Those ''aircraft'' listed by designation in published airworthiness certification lists by civil aviation authorities of one or more Wassenaar Arrangement Participating States to fly commercial civil internal and external routes or for legitimate civil, private or business use. (see also ''aircraft'')

COCOM (Coordinating Committee on Multilateral Export Controls). A multilateral organization that cooperated in restricting strategic exports to controlled countries. COCOM was officially disbanded on March 31, 1994. COCOM members included: Australia, Belgium, Canada, Denmark, France, Germany, Greece, Italy, Japan, Luxembourg, Netherlands, Norway, Portugal, Spain, Turkey, United Kingdom, and United States.

Commerce Control List (CCL). A list of items under the export control jurisdiction of the Bureau of Industry and Security, U.S. Department of Commerce. Note that certain additional items described in part 732 of the EAR are also subject to the EAR. The CCL is found in supplement no. 1 to part 774 of the EAR.

Commingled. (Cat 1)—Filament to filament blending of thermoplastic fibers and reinforcement fibers in order to produce a fiber reinforcement/matrix mix in total fiber form.

Comminution. (Cat 1)—A process to reduce a material to particles by crushing or grinding.

Commodity. Any article, material, or supply except technology and software.

Communications Channel Controller. (Cat 4)—The physical interface which controls the flow of synchronous or asynchronous digital information. It is an assembly that can be integrated into computer or telecommunications equipment to provide communications access.

Compensation systems. (Cat 6) Consist of the primary scalar sensor, one or more reference sensors (e.g., vector magnetometers) together with software that permit reduction of rigid body rotation noise of the platform.

Component. This is an item that is useful only when used in conjunction with an ''end item.'' ''Components'' are also commonly referred to as assemblies. For purposes of this definition an assembly and a ''component'' are the same. There are two types of ''components'': ''Major components'' and ''minor components.'' A ''major component'' includes any assembled element which forms a portion of an ''end item'' without which the ''end item'' is inoperable. For example, for an automobile, ''components'' will include the engine, transmission, and battery. If you do not have all those items, the automobile will not function, or function as effectively. A ''minor component'' includes any assembled element of a ''major component.'' ''Components'' consist of ''parts.'' References in the CCL to ''components'' include both ''major components'' and ''minor components.''

Composite. (Cat 1, 2, 6, 8, and 9)—A ''matrix'' and an additional phase or additional phases consisting of particles, whiskers, fibers or any combination thereof, present for a specific purpose or purposes.

Compound rotary table. (Cat 2)—A table allowing the workpiece to rotate and tilt about two non-parallel axis that can be coordinated simultaneously for ''contouring control''.

''III/V compounds''. (Cat 3 and 6) Polycrystalline or binary or complex monocrystalline products consisting of elements of groups IIIA and VA of Mendeleyev's periodic classification table (e.g., gallium arsenide, gallium-aluminum arsenide, indium phosphide).

Contouring control. (Cat 2)—Two or more ''numerically controlled'' motions operating in accordance with instructions that specify the next required position and the required feed rates to that position. These feed rates are varied in relation to each other so that a desired contour is generated (Ref. ISO/DIS 2806—1980).

Controlled country. Countries designated controlled for national security purposes under authority delegated to the Secretary of Commerce by Executive Order 12214 of May 2, 1980 pursuant to section 5(b) of the EAA. The controlled countries are: Albania, Armenia, Azerbaijan, Belarus, Cambodia, Cuba, the People's Republic of China, Georgia, Iraq, Kazakhstan, Kyrgyzstan, Laos, Macau, Moldova, Mongolia, North Korea, Russia, Tajikistan, Turkmenistan, Ukraine, Uzbekistan, and Vietnam. All of the controlled countries except Cuba are listed in Country Group D:1 of the EAR. Cuba is listed in Country Group E:2. This definition does not apply to part 768 of the EAR (Foreign Availability), which provides a dedicated definition.

Countries supporting international terrorism. In accordance with § 6(j) of the Export Administration Act of 1979, as amended (EAA), the Secretary of State has determined that the following countries' governments have repeatedly provided support for acts of international terrorism: Iran, North Korea, Sudan, and Syria.

Country Chart. A chart, found in supplement no. 1 to part 738 of the EAR, that contains certain licensing requirements based on destination and reason

for control. In combination with the CCL, the Country Chart indicates when a license is required for any item on the CCL to any country in the world under General Prohibition One (Exports and Reexports in the Form Received), General Prohibition Two (Parts and Components Reexports), and General Prohibition Three (Foreign Produced Direct Product Reexports). See part 736 of the EAR.

Country Groups. For export control purposes, foreign countries are separated into five country groups designated by the symbols A, B, C, D, and E. (See supplement no. 1 to part 740 of the EAR for a list of countries in each Country Group.)

Critical temperature. (Cat 1, 3, 5P1, and 6)—The ''critical temperature'' (sometimes referred to as the transition temperature) of a specific ''superconductive'' material is the temperature at which the material loses all resistance to the flow of direct electrical current.

Crude oil. A mixture of hydrocarbons that existed in liquid phase in underground reservoirs, remains liquid at atmospheric pressure (after passing through surface separating facilities), and has not been processed through a crude oil distillation tower. Crude oil includes reconstituted crude petroleum, lease condensate, and liquid hydrocarbons produced from tar sands, gilsonite, and oil shale. Drip gases are also included, but topped crude oil, residual oil, and other finished and unfinished oils are excluded.

Cryptanalytic items. (Cat 5P2) Systems, equipment or components designed or modified to perform 'cryptanalytic functions', software having the characteristics of cryptanalytic hardware or performing 'cryptanalytic functions', or technology for the development, production or use of cryptanalytic commodities or software.

NOTES: *1. 'Cryptanalytic functions' are functions designed to defeat cryptographic mechanisms in order to derive confidential variables or sensitive data, including clear text, passwords or cryptographic keys. These functions may include 'cryptanalysis,' which is the analysis of a cryptographic system or its inputs and outputs to derive confidential variables or sensitive data, including clear text. (ISO 7498–2–1988 (E), paragraph 3.3.18).*

2. Functions specially designed and limited to protect against malicious computer damage or unauthorized system intrusion (e.g., viruses, worms and trojan horses) are not construed to be 'cryptanalytic functions.').

Cryptographic activation. (Cat 5P2) Any technique that activates or enables cryptographic capability of an item, by means of a secure mechanism implemented by the manufacturer of the item, where this mechanism is uniquely bound to any of the following:

(a) A single instance of the item; *or*

(b) One customer, for multiple instances of the item.

Technical Notes to definition of ''Cryptographic activation'': 1. ''Cryptographic activation'' techniques and mechanisms may be implemented as hardware, ''software'' or ''technology''.

2. Mechanisms for ''cryptographic activation'' can, for example, be serial number-based license keys or authentication instruments such as digitally signed certificates.

Cryptography. (Cat 5P2)—The discipline that embodies principles, means and methods for the transformation of data in order to hide its information content, prevent its undetected modification or prevent its unauthorized use. ''Cryptography'' is limited to the transformation of information using one or more 'secret parameters' (*e.g.*, crypto variables) and/or associated key management.

NOTE: ''Cryptography'' does not include 'fixed' data compression or coding techniques.

TECHNICAL NOTES: 1. 'Secret parameter': a constant or key kept from the knowledge of others or shared only within a group.

2. 'Fixed': the coding or compression algorithm cannot accept externally supplied parameters (*e.g.*, cryptographic or key variables) and cannot be modified by the user.

Customs officer. The Customs officers in the U.S. Customs Service and postmasters unless the context indicates otherwise.

CW Laser. (Cat 6) A CW (Continuous Wave) laser is defined as a laser that produces a nominally constant output energy for greater than 0.25 seconds.

Data-Based Referenced Navigation (''DBRN'') Systems. (Cat 7) Systems which use various sources of previously measured geo-mapping data integrated to provide accurate navigation information under dynamic conditions. Data sources include bathymetric maps, stellar maps, gravity maps, magnetic maps or 3–D digital terrain maps.

''Data signaling rate.'' (Cat 5) means the rate, as defined in ITU Recommendation 53–36, taking into account that, for non-binary modulation, baud and bit per second are not equal. Bits for coding, checking and synchronization functions are to be included.

NOTE: When determining the ''data signaling rate'', servicing and administrative channels shall be excluded.

TECHNICAL NOTE: It is the maximum one-way rate, i.e., the maximum rate in either transmission or reception.

Deformable mirrors. (Cat 6) (also known as adaptive optic mirrors) means mirrors having:

a. A single continuous optical reflecting surface which is dynamically deformed by the application of individual torques or forces to compensate for distortions in the optical waveform incident upon the mirror; *or*

b. Multiple optical reflecting elements that can be individually and dynamically repositioned by the application of torques or forces to compensate for distortions in the optical waveform incident upon the mirror.

Depleted uranium. (Cat 0) means uranium depleted in the isotope 235 below that occurring in nature.

Designed or modified. (MTCR context)—Equipment, parts, components, or ''software'' that, as a result of ''development'', or modification, have specified properties that make them fit for a particular application. ''Designed or modified'' equipment, parts, components or ''software'' can be used for other applications. For example, a titanium coated pump designed for a ''missile'' may be used with corrosive fluids other than propellants.

Development. (General Technology Note)—''Development'' is related to all stages prior to serial production, such as: design, design research, design analyses, design concepts, assembly and testing of prototypes, pilot production schemes, design data, process of transforming design data into a product, configuration design, integration design, layouts.

Diffusion bonding. (Cat 1, 2, and 9)—A solid state joining of at least two separate pieces of metals into a single piece with a joint strength equivalent to that of the weakest material, wherein the principal mechanism is interdiffusion of atoms across the interface.

Digital computer. (Cat 4 and 5)—Equipment that can, in the form of one or more discrete variables, perform all of the following:

(a) Accept data;

(b) Store data or instructions in fixed or alterable (writable) storage devices;

(c) Process data by means of a stored sequence of instructions that is modifiable; and

(d) Provide output of data.

NOTE: Modifications of a stored sequence of instructions include replacement of fixed storage devices, but not a physical change in wiring or interconnections.

Digital transfer rate. (Cat 5)—The total bit rate of the information that is directly transferred on any type of medium. (See also ''total digital transfer rate'')

Direct-acting hydraulic pressing. (Cat 2)—A deformation process that uses a fluid-filled flexible bladder in direct contact with the workpiece.

Directorate of Defense Trade Controls (DDTC). The office at the Department of State, formerly known as the Office of Defense Trade Controls and before that as the Office of Munitions Control, responsible for reviewing applications to export and reexport items on the U.S. Munitions List. (See 22 CFR parts 120 through 130.)

Dual use. Items that have both commercial and military or proliferation applications. While this term is used informally to describe items that are subject to the EAR, purely commercial items and certain munitions items listed on the Wassenaar Arrangement Munitions List (WAML) or the Missile Technology Control Regime Annex are also subject to the EAR (see § 734.2(a) of the EAR).

Dynamic adaptive routing. (Cat 5)—Automatic rerouting of traffic based on sensing and analysis of current actual network conditions.

NOTE: This does not include cases of routing decisions taken on predefined information.

Effective control. You maintain effective control over an item when you either retain physical possession of the item, or secure the item in such an environment as a hotel safe, a bonded warehouse, or a locked or guarded exhibition facility. Retention of effective control over an item is a condition of certain temporary exports and reexports.

Effective Gram. (of ''special fissile material'') (Cat 0 and 1) means:

a. For plutonium isotopes and uranium-233, the isotope weight in grams;

b. For uranium enriched 1 percent or greater in the isotope uranium-235, the element weight in grams multiplied by the square of its enrichment expressed as a decimal weight fraction;

c. For uranium enriched below 1 percent in the isotope uranium-235, the element weight in grams multiplied by 0.0001.

Electronic assembly. (Cat 4) means a number of electronic components (i.e., 'circuit elements', 'discrete components', integrated circuits, etc.) connected together to perform (a) specific function(s), replaceable as an entity and normally capable of being disassembled.

Technical Notes: 1. 'Circuit element': a single active or passive functional part of an electronic circuit, such as one diode, one transistor, one resistor, one capacitor, etc.

2. 'Discrete component': a separately packaged 'circuit element' with its own external connections.

''Electronically steerable phased array antenna''. (Cat 6 and 5 Part 1)—An antenna that forms a beam by means of phase coupling (*i.e.*, the beam direction is controlled by the complex excitation coefficients of the radiating elements) and the direction of that beam can be varied (both in transmission and reception) in azimuth or in elevation, or both, by application of an electrical signal.

Encryption component. Any encryption commodity or software (except source code), including encryption chips, integrated circuits, application specific encryption toolkits, or executable or linkable modules that alone are incapable of performing complete cryptographic functions, and is designed or intended for use in or the production of another encryption item.

Encryption items. The phrase encryption items includes all encryption commodities, software, and technology that contain encryption features and are subject to the EAR. This does not include encryption items specifically designed, developed, configured, adapted or modified for military applications (including command, control and intelligence applications) which are controlled by the Department of State on the U.S. Munitions List.

Encryption licensing arrangement. A license that allows the export of specified products to specified destinations in unlimited quantities. In certain cases, exports are limited to specified end-users for specified end-uses. Generally, reporting of all sales of the specified products is required at six month intervals. This includes sales made under distribution arrangements and distribution and warehousing agreements that were previously issued by the Department of State for encryption items.

Encryption object code. Computer programs containing an encryption source code that has been compiled into a form of code that can be directly executed by a computer to perform an encryption function.

Encryption software. Computer programs that provide capability of encryption functions or confidentiality of information or information systems. Such software includes source code, object code, applications software, or system software.

Encryption source code. A precise set of operating instructions to a computer that, when compiled, allows for the execution of an encryption function on a computer.

End-effectors. (Cat 2) Grippers, 'active tooling units' and any other tooling that is attached to the baseplate on the end of a ''robot'' manipulator arm.

Technical Note to definition of ''End-effectors'': 'Active tooling unit': a device for applying motive power, process energy or sensing to the workpiece.

End item. This is a system, equipment or assembled commodity ready for its

intended use. Only ammunition, or fuel or other energy source is required to place it in an operating state. Examples of end items include ships, aircraft, computers, firearms, and milling machines.

End-user. The person abroad that receives and ultimately uses the exported or reexported items. The end-user is not a forwarding agent or intermediary, but may be the purchaser or ultimate consignee.

Energetic materials. (Cat 1) Substances or mixtures that react chemically to release energy required for their intended application. ''Explosives'', ''pyrotechnics'' and ''propellants'' are subclasses of energetic materials.

Equipment. This is a combination of parts, components, accessories, attachments, firmware, or software that operate together to perform a function of, as, or for an end item or system. Equipment may be a subset of ''end items'' based on the characteristics of the equipment. Equipment that meets the definition of an end-item is an end-item. Equipment that does not meet the definition of an end-item is a part, component, accessory, attachment, firmware, or software.

Equivalent Density. (Cat 6)—The mass of an optic per unit optical area projected onto the optical surface.

Explosives. (Cat 1)—see Annex ''List of Explosives'' located at the end of Category 1 of supplement no. 1 to part 774 ''Commerce Control List''.

Export. See § 734.13 of the EAR.

Export Administration Act (EAA). Export Administration Act of 1979, as amended, effective October 1, 1979.

Export Administration Regulations (EAR). Regulations set forth in parts 730–774, inclusive, of Title 15 of the Code of Federal Regulations.

Export Administration Review Board—The body authorized by Executive Order 12002 as amended by Executive Orders 12755 and 13286. The Export Administration Review Board's role in license application review is in accordance with Executive Order 12981 as amended by Executive Orders 13020, 13026 and 13117.

Export Control Classification Number (ECCN). The numbers used in supplement no. 1 to part 774 of the EAR and throughout the EAR. The Export Control Classification Number consists of a set of digits and a letter. Reference § 738.2(c) of the EAR for a complete description of each ECCN's composition.

Export control document. A license; application for license; any and all documents submitted in accordance with the requirements of the EAR in support of, or in relation to, a license application; application for International Import Certificate; Delivery Verification Certificate or similar evidence of delivery; Electronic Export Information (EEI) on the Automated Export System (AES) presented in connection with shipments to any country; a Dock Receipt or bill of lading issued by any carrier in connection with any export subject to the EAR and any and all documents prepared and submitted by exporters and agents pursuant to the export clearance requirements of part 758 of the EAR; a U.S. exporter's report of request received for information, certification, or other action indicating a restrictive trade practice or boycott imposed by a foreign country against a country friendly to the United States, submitted to the U.S. Department of Commerce in accordance with the provisions of part 760 of the EAR; Customs Form 7512, Transportation Entry and Manifest of Goods, Subject to Customs Inspection and Permit, when used for Transportation and Exportation (T. & E.) or Immediate Exportation (I.E.); and any other document issued by a U.S. Government agency as evidence of the existence of a license for the purpose of loading onto an exporting carrier or otherwise facilitating or effecting an export from the United States or any reexport of any item requiring a license.

Exporter. The person in the United States who has the authority of a principal party in interest to determine and control the sending of items out of the United States.

Exporting carrier. Any instrumentality of water, land, or air transportation by which an export is effected, including any domestic air carrier on which any cargo for export is laden or carried.

FADEC systems. See ''full authority digital engine control systems.''

FMU—See ''flexible manufacturing unit''

Facilities. This means a building or outdoor area in which people use an item that is built, installed, produced, or developed for a particular purpose.

Fibrous or filamentary materials. (Cat 1 and 8)—The term ''fibrous and filamentary materials'' includes:

(a) Continuous monofilaments;

(b) Continuous yarns and rovings;

(c) Tapes, fabrics, random mats and braids;

(d) Chopped fibers, staple fibers and coherent fiber blankets;

(e) Whiskers, either monocrystalline or polycrystalline, of any length;

(f) Aromatic polyimide pulp.

Film type integrated circuit. (Cat 3)—An array of ''circuit elements'' and metallic interconnections formed by deposition of a thick or thin film on an insulating ''substrate''.

NOTE: ''Circuit element'': a single active or passive functional part of an electronic circuit, such as one diode, one transistor, one resistor, one capacitor, etc.

Financial Institution. As applied to encryption items, means any of the following:

(a) A broker, dealer, government securities broker or dealer, self-regulatory organization, investment company or investment adviser, which is regulated or supervised by the Securities and Exchange Commission or a self-regulatory organization that is registered with the Securities and Exchange Commission; or

(b) A broker, dealer, government securities broker or dealer, investment company, investment adviser, or entity that engages in securities activities that, if conducted in the United States, would be described by the definition of the term ''self-regulatory organization'' in the Securities Exchange Act of 1934, which is organized under the laws of a foreign country and regulated or supervised by a foreign securities authority; or

(c) A U.S. board of trade that is designated as a contract market by the Commodity Futures Trading Commission or a futures commission merchant that is regulated or supervised by the Commodity Futures Trading Commission; or

(d) A U.S. entity engaged primarily in the business of issuing a general purpose charge, debit, or stored value card, or a branch of, or affiliate controlled by, such an entity; or

(e) A branch or affiliate of any of the entities listed in paragraphs (a), (b), or (c) of this definition regulated or supervised by the Securities and Exchange Commission, the Commodity Futures Trading Commission, or a foreign securities authority; or

(f) An affiliate of any of the entities listed in paragraph (a), (b), (c), or (e), of this definition engaged solely in the business of providing data processing services to one or more bank or financial institutions, or a branch of such an affiliate; or

(g) A company organized and regulated under the laws of any of the United States and its branches and affiliates whose primary and predominant business activity is the writing of insurance or the reinsuring of risks; or a company organized and regulated under the laws of a foreign country and its branches and affiliates whose primary and predominant business activity is the writing of insurance or the reinsuring of risks.

Firm. A corporation, partnership, limited partnership, association, company, trust, or any other kind of organization or body corporate, situated, residing, or doing business in the United States or any foreign country, including any government or agency thereof.

Flexible manufacturing unit. (FMU), (sometimes also referred to as 'flexible manufacturing system' (FMS) or 'flexible manufacturing cell' (FMC)) (Cat 2)—An entity that includes a combination of at least:

(a) A ''digital computer'' including its own ''main storage'' and its own ''related equipment''; and

(b) Two or more of the following:

(1) A machine tool described in 2B001.c;

(2) A dimensional inspection machine described in Category 2, or another digitally controlled measuring machine controlled by an entry in Category 2;

(3) A ''robot'' controlled by an entry in Category 2 or 8;

(4) Digitally controlled equipment controlled by 1B003, 2B003, or 9B001;

(5) ''Stored program controlled'' equipment controlled by 3B001;

(6) Digitally controlled equipment controlled by 1B001;

(7) Digitally controlled electronic equipment controlled by 3A002.

Flight control optical sensor array. (Cat 7) is a network of distributed optical sensors, using ''laser'' beams, to provide real-time flight control data for on-board processing.

Flight path optimization. (Cat 7) is a procedure that minimizes deviations from a four-dimensional (space and time) desired trajectory based on maximizing performance or effectiveness for mission tasks.

Fly-by-light system. (Cat 7) A primary digital flight control system employing feedback to control the aircraft during flight, where the commands to the effectors/actuators are optical signals.

Fly-by-wire system. (Cat 7) A primary digital flight control system employing feedback to control the aircraft during flight, where the commands to the effectors/actuators are electrical signals.

Focal plane array. (Cat 6 and 8)—A linear or two-dimensional planar layer, or combination of planar layers, of individual detector elements, with or without readout electronics, that work in the focal plane.

N.B. This definition does not include a stack of single detector elements or any two, three, or four element detectors provided time delay and integration is not performed within the element.

Food. Specific to exports and reexports to North Korea, Syria and Crimea region of Ukraine, food means items that are consumed by and provide nutrition to humans and animals, and seeds, with the exception of castor bean seeds, that germinate into items that will be consumed by and provide nutrition to humans and animals. (Food does not include alcoholic beverages.)

Foreign government agency. For the purposes of exemption from support documentation (see §748.9 of the EAR), a foreign government agency is defined as follows:

(a) National governmental departments operated by government-paid personnel performing governmental administrative functions; e.g. Finance Ministry, Ministry of Defense, Ministry of Health, etc. (municipal or other local government entities must submit required support documentation); or

(b) National government-owned public service entities; e.g., nationally owned railway, postal, telephone, telegraph, broadcasting, and power systems, etc. The term ''foreign government agency'' does not include government corporations, quasi-government agencies, and state enterprises engaged in commercial, industrial, and manufacturing activities, such as petroleum refineries, mines, steel mills, retail stores, automobile manufacturing plants, airlines, or steamship lines that operate between two or more countries, etc.

Foreign person. Any natural person who is not a lawful permanent resident of the United States, citizen of the United States, or any other protected individual as defined by 8 U.S.C. 1324b(a)(3). It also means any corporation, business association, partnership, trust, society or any other entity or group that is not incorporated in the United States or organized to do business in the United States, as well as international organizations, foreign governments and any agency or subdivision of a foreign government (*e.g.*, diplomatic mission). ''Foreign person'' is synonymous with ''foreign national,'' as used in the EAR, and ''foreign person'' as used in the International Traffic in Arms Regulations (22 CFR 120.16). This definition does not apply to part 760 of the EAR (Restrictive Trade Practices or Boycotts).

Foreign policy control. A control imposed under the EAR for any and all of the following reasons: chemical and biological weapons, nuclear nonproliferation, missile technology, regional stability, crime control, anti-terrorism, United Nations sanctions, and any other reason for control implemented under section 6 of the EAA or other similar authority.

Foreign Terrorist Organizations (FTO). Any organization that is determined by the Secretary of the Treasury to be a foreign terrorist organization under notices or regulations issued by the Office of Foreign Assets Control (see 31 CFR chapter V).

Forwarding agent. The person in the United States who is authorized by a principal party in interest to perform the services required to facilitate the export of the items from the United States. This may include air couriers or carriers. In routed export transactions, the forwarding agent and the exporter may be the same for compliance purposes under the EAR.

Fractional bandwidth. (Cat 3, 5P1, 5P2)—The ''instantaneous bandwidth'' divided by the center frequency, expressed as a percentage.

Frequency hopping. (Cat 5 part 1 and 5 part 2)—A form of ''spread spectrum'' in which the transmission frequency of a single communication channel is made to change by a random or pseudorandom sequence of discrete steps.

Frequency mask trigger. (Cat 3)—For ''signal analyzers'' a mechanism where the trigger function is able to select a frequency range to be triggered on as a subset of the acquisition bandwidth while ignoring other signals that may also be present within the same acquisition bandwidth. A ''frequency mask trigger'' may contain more than one independent set of limits.

Frequency switching time. (Cat 3) The time (*i.e.*, delay) taken by a signal when switched from an initial specified output frequency, to arrive at or within any of the following:

(1) ±100 Hz of a final specified output frequency of less than 1 GHz; *or*

(2) ±0.1 part per million of a final specified output frequency equal to or greater than 1 GHz.

''*Frequency synthesizer*''. (Cat 3)— Any kind of frequency source, regardless of the actual technique used, providing a multiplicity of simultaneous or alternative output frequencies, from one or more outputs, controlled by, derived from or disciplined by a lesser number of standard (or master) frequencies.

Fuel cell. (Cat 8) An electrochemical device that converts chemical energy directly into Direct Current (DC) electricity by consuming fuel from an external source.

Full Authority Digital Engine Control Systems. (''FADEC Systems'') (Cat 9) A digital electronic control system for a gas turbine engine that is able to autonomously control the engine throughout its whole operating range from demanded engine start until demanded engine shut down, in both normal and fault conditions.

Fundamental research. See § 734.8 of the EAR.

Fusible. (Cat 1)—Capable of being cross-linked or polymerized further (cured) by the use of heat, radiation, catalysts, etc., or that can be melted without pyrolysis (charring).

Gas Atomization. (Cat 1)—A process to reduce a molten stream of metal alloy to droplets of 500-micrometer diameter or less by a high-pressure gas stream.

General prohibitions. The 10 prohibitions found in part 736 of the EAR that prohibit certain exports, reexports, and other conduct, subject to the EAR, absent a license, license exception, or determination that no license is required (''NLR'').

Geographically dispersed. (Cat 6)—Sensors are considered geographically dispersed when each location is distant from any other more than 1,500 m in any direction. Mobile sensors are always considered geographically dispersed.

Government end user'' (as applied to encryption items). A government end user is any foreign central, regional or local government department, agency, or other entity performing governmental functions; including governmental research institutions, governmental corporations or their separate business units (as defined in part 772 of the EAR) which are engaged in the manufacture or distribution of items or services controlled on the Wassenaar Munitions List, and international governmental organizations. This term does not include: Utilities (including telecommunications companies and Internet service providers); banks and financial institutions; transportation; broadcast or entertainment; educational organizations (except public schools and universities); civil health and medical organizations (including public civilian hospitals); retail or wholesale firms; and manufacturing or industrial entities not engaged in the manufacture or distribution of items or services controlled on the Wassenaar Munitions List.

Hold Without Action (HWA). License applications may be held without action only in the limited circumstances

described in § 750.4(b) of the EAR. Encryption review requests may be placed on hold without action status as provided in § 740.17(d)(2) and § 742.15(b)(2) of the EAR.

Hot isostatic densification. (Cat 2)—A process of pressurizing a casting at temperatures exceeding 375 K (102 °C) in a closed cavity through various media (gas, liquid, solid particles, etc.) to create equal force in all directions to reduce or eliminate internal voids in the casting.

Hybrid computer. (Cat 4)—Equipment that can:

(a) Accept data;

(b) Process data, in both analog and digital representation; and

(c) Provide output of data.

Hybrid integrated circuit. (Cat 3)—Any combination of integrated circuit(s), or integrated circuit with ''circuit elements'' or ''discrete components'' connected together to perform (a) specific function(s), and having all of the following criteria:

(a) Containing at least one unencapsulated device;

(b) Connected together using typical IC-production methods;

(c) Replaceable as an entity; and

(d) Not normally capable of being disassembled.

NOTES: 1. ''Circuit element'': a single active or passive functional part of an electronic circuit, such as one diode, one transistor, one resistor, one capacitor, etc.

2. ''Discrete component'': a separately packaged ''circuit element'' with its own external connections.

Image enhancement. (Cat 4)—The processing of externally derived information-bearing images by algorithms such as time compression, filtering, extraction, selection, correlation, convolution or transformations between domains (e.g., fast Fourier transform or Walsh transform). This does not include algorithms using only linear or rotational transformation of a single image, such as translation, feature extraction, registration or false coloration.

Information security. (Cat 5P2, GSIN, GSN)—All the means and functions ensuring the accessibility, confidentiality or integrity of information or communications, excluding the means and functions intended to safeguard against malfunctions. This includes ''cryptography'', ''cryptographic activation'', ''cryptanalysis'', protection against compromising emanations and computer security.

Technical Note to definition of ''Information security'': 'Cryptanalysis': the analysis of a cryptographic system or its inputs and outputs to derive confidential variables or sensitive data, including clear text. (ISO 7498–2–1988 (E), paragraph 3.3.18)

Instantaneous bandwidth. (Cat 3 and 5)—The bandwidth over which output power remains constant within 3 dB without adjustment of other operating parameters.

Instrumented range. (Cat 6)—The specified unambiguous display range of a radar.

Intent to Deny (ITD) letter. A letter informing the applicant:

(a) Of the reason for BIS's decision to deny a license application; and

(b) That the application will be denied 45 days from the date of the ITD letter, unless the applicant provides, and BIS accepts, a reason why the application should not be denied for the stated reason. See § 750.6 of the EAR.

Intermediate consignee. The person that acts as an agent for a principal party in interest for the purpose of effecting delivery of items to the ultimate consignee. The intermediate consignee may be a bank, forwarding agent, or other person who acts as an agent for a principal party in interest.

Intrinsic Magnetic Gradiometer. (Cat 6)—A single magnetic field gradient sensing element and associated electronics the output of which is a measure of magnetic field gradient. (See also ''Magnetic Gradiometer'')

Isostatic presses. (Cat 2)—Equipment capable of pressurizing a closed cavity through various media (gas, liquid, solid particles, etc.) to create equal pressure in all directions within the cavity upon a workpiece or material.

Item. ''Item'' means ''commodities, software, and technology.'' When the EAR intend to refer specifically to commodities, software, or technology, the text will use the specific reference.

Know. See ''knowledge.''

Knowledge. Knowledge of a circumstance (the term may be a variant, such as ''know,'' ''reason to know,'' or

''reason to believe'') includes not only positive knowledge that the circumstance exists or is substantially certain to occur, but also an awareness of a high probability of its existence or future occurrence. Such awareness is inferred from evidence of the conscious disregard of facts known to a person and is also inferred from a person's willful avoidance of facts. This definition does not apply to part 760 of the EAR (Restrictive Trade Practices or Boycotts).

Laser. (Cat 1, 2, 3, 5P1, 6, 7, 8 and 9)—An item that produces spatially and temporally coherent light through amplification by stimulated emission of radiation. See also: ''Chemical laser;'' ''Super High Power Laser;'' and ''Transfer laser.''

Law or regulation relating to export control. Any statute, proclamation, executive order, regulation, rule, license, or order applicable to any conduct involving an export transaction shall be deemed to be a ''law or regulation relating to export control.''

Legible or legibility. Legible and legibility mean the quality of a letter or numeral that enables the observer to identify it positively and quickly to the exclusion of all other letters or numerals.

Less sensitive government end users (as applied to encryption items). The following ''government end users'' (as defined in this Section of the EAR) are considered ''less sensitive'' for the purposes of License Exception ENC (§ 740.17 of the EAR):

(1) Local/state/provincial ''government end users'' (departments, agencies and entities), including local/state/provincial executive, legislative, judicial, police, fire, rescue and public safety agencies.

(2) National/federal/royal ''government end users'' (departments, agencies and entities) providing the following civil government functions and services:

(i) Census and statistics services;

(ii) Civil public works infrastructure services (construction, maintenance, repair, regulation and administration) as follows: Buildings, public transportation, roads and highways, trucking;

(iii) Civil service administration and regulation, including human resources and personnel/labor management;

(iv) Clean water infrastructure services (treatment, supply and testing);

(v) Economic (trade/commerce/investment), business and industrial development, promotion, regulation and administration, excluding the following end users/end uses:

(A) Agencies, departments, boards and councils for science and technology;

(B) Research, development and national laboratories (other than as specified in paragraphs (2)(xi) (measurements and standards services) and (2)(xii) (meteorology/weather/atmospheric services) of this definition (below);

(C) National telecommunications and information technology agencies, boards, councils and development authorities (including national information center, and Information Communications Technology (ICT)/telecommunications infrastructure/spectrum planning, policy, regulation and testing);

(vi) Elections, balloting and polling services;

(vii) Energy regulation and administration, including oil, gas and mining sectors;

(viii) Environmental/natural resources regulation, administration and protection, including wildlife, fisheries and national parks;

(ix) Food/agriculture regulation and administration;

(x) Labor/community/social services planning, regulation and administration, including: housing and urban development, municipality and rural affairs;

(xi) Measurements and standards services;

(xii) Meteorology (weather, atmospheric) services;

(xiii) National archives/museums;

(xiv) Patents;

(xv) Pilgrimage and religious affairs;

(xvi) Postal services;

(xvii) Public and higher education (excluding government research institutions and any agency, institution or affiliate engaged in the manufacture or

distribution of items or services controlled on the Wassenaar Munitions List);

(xviii) Public health and medicine/pharmaceutical regulation and administration;

(xix) Public libraries;

(xx) Sports/culture (includes film, commercial broadcasting and the arts) promotion, regulation and administration;

(xxi) Travel/tourism promotion, regulation and administration.

Library. (Cat 1) (parametric technical database) A collection of technical information, reference to which may enhance the performance of the relevant systems, equipment or components.

License. Authority issued by the Bureau of Industry and Security authorizing an export, reexport, or other regulated activity. The term ''license'' does not include authority represented by a ''License Exception.''

License application; application for license. License application and similar wording mean an application to BIS requesting the issuance of a license to the applicant.

License Exception. An authorization described in part 740 of the EAR that allows you to export or reexport, under stated conditions, items subject to the EAR that otherwise would require a license. Unless otherwise indicated, these License Exceptions are not applicable to exports under the licensing jurisdiction of agencies other than the Department of Commerce.

Licensee. The person to whom a license has been issued by BIS. See §750.7(c) of the EAR for a complete definition and identification of a licensee's responsibilities.

Lighter-than-air vehicles. (Cat 2 and 9) Balloons and ''airships'' that rely on hot air or on lighter-than-air gases such as helium or hydrogen for their lift.

Linearity. (Cat 2)—''Linearity'' (usually measured in terms of non-linearity) is the maximum deviation of the actual characteristic (average of upscale and downscale readings), positive or negative, from a straight line so positioned as to equalize and minimize the maximum deviations.

Local area network. (Cat 4 and 5 Part 1)—A data communication system that:

(a) Allows an arbitrary number of independent 'data devices' to communicate directly with each other; and

(b) Is confined to a geographical area of moderate size (*e.g.*, office building, plant, campus, warehouse).

Technical Note to definition of ''Local area network'': 'Data device' means equipment capable of transmitting or receiving sequences of digital information.

MBTR—See ''maximum bit transfer rate''.

MTCR. See Missile Technology Control Regime.

MTEC. See Missile Technology Export Control Group.

Magnetic Gradiometers. (Cat 6)—Are designed to detect the spatial variation of magnetic fields from sources external to the instrument. They consist of multiple ''magnetometers'' and associated electronics the output of which is a measure of magnetic field gradient. (See also ''Intrinsic Magnetic Gradiometer''.)

Magnetometers. (Cat 6)—Are designed to detect magnetic fields from sources external to the instrument. They consist of a single magnetic field sensing element and associated electronics the output of which is a measure of the magnetic field.

Main storage. (Cat 4)—The primary storage for data or instructions for rapid access by a central processing unit. It consists of the internal storage of a ''digital computer'' and any hierarchical extension thereto, such as cache storage or non-sequentially accessed extended storage.

Material. This is any list-specified crude or processed matter that is not clearly identifiable as any of the types of items defined in §772.1 under the defined terms, ''end item,'' ''component,'' ''accessories,'' ''attachments,'' ''part,'' ''software,'' ''system, ''equipment,'' or ''facilities.'' The exclusion from the definition of material for clearly identifiable items defined in §772.1, such as for ''parts'' and ''components,'' does not apply to the following ECCNs: 1C233, 1C234, 1C235, 1C236, 1C237, 1C239, 1C350, 1C395, 1C991, 1C992, and 1C995.

Matrix. (Cat 1, 2, 8, and 9)—A substantially continuous phase that fills the

space between particles, whiskers or fibers.

Maximum bit transfer rate. (MBTR) (Cat 4)—Of solid state storage equipment: the number of data bits per second transferred between the equipment and its controller. Of a disk drive: the internal data transfer rate calculated as follows:

''MBTR'' (bits per second) = B × R × T, where:

B = Maximum number of data bits per track available to read or write in a single revolution;

R = Revolutions per second;

T = Number of tracks that can be used or written simultaneously.

Measurement uncertainty. (Cat 2) The characteristic parameter that specifies in what range around the output value the correct value of the measurable variable lies with a confidence level of 95%. It includes the uncorrected systematic deviations, the uncorrected backlash, and the random deviations (Ref.: ISO 10360–2).

Mechanical alloying. (Cat 1)—An alloying process resulting from the bonding, fracturing and rebonding of elemental and master alloy powders by mechanical impact. Non-metallic particles may be incorporated in the alloy by addition of the appropriate powders.

Media access unit. (Cat 5)—Equipment that contains one or more communication interfaces (''network access controller'', ''communications channel controller'', modem or computer bus) to connect terminal equipment to a network.

Medical devices. For purposes of the EAR, medical devices are ''devices'' as defined in section 201 of the Federal Food, Drug, and Cosmetic Act (21 U.S.C. 321) including medical supplies, instruments, equipment, equipped ambulances, institutional washing machines for sterilization, and vehicles with medical testing equipment. Note that certain component parts and spares to be exported for incorporation into medical devices are on the Commerce Control List. Only items meeting the definition of ''medical device'' and that are classified as EAR99 are eligible for export to Iran and Sudan under the licensing procedures set forth in the appropriate regulations promulgated and administered by Treasury's Office of Foreign Assets Control.

Medicines. Medicines means ''drug'' as defined in section 201 of the Federal Food, Drug and Cosmetic Act (21 U.S.C. 321). For purposes of the EAR, medicines includes prescription and over the counter medicines for humans and animals. Note that certain medicines, such as vaccines and immunotoxins, are on the Commerce Control List. Only items meeting the definition of ''medicine'' and that are classified as EAR99 are eligible for export to Iran and Sudan under the licensing procedures set forth in the appropriate regulations promulgated and administered by Treasury's Office of Foreign Assets Control.

Melt Extraction. (Cat 1)—A process to ''solidify rapidly'' and extract a ribbon-like alloy product by the insertion of a short segment of a rotating chilled block into a bath of a molten metal alloy.

NOTE: ''Solidify rapidly'': solidification of molten material at cooling rates exceeding 1,000 K/sec.

Melt Spinning. (Cat 1)—A process to ''solidify rapidly'' a molten metal stream impinging upon a rotating chilled block, forming a flake, ribbon or rod-like product.

NOTE: ''Solidify rapidly'': solidification of molten material at cooling rates exceeding 1,000 K/sec.

Metal embrittlement agents. (Cat. 0)—Non-lethal weapon substances that alter the crystal structure of metals within a short time span. Metal embrittlement agents severely weaken metals by chemically changing their molecular structure. These agents are compounded in various substances to include adhesives, liquids, aerosols, foams, and lubricants.

Microcomputer microcircuit. (Cat 3) means a ''monolithic integrated circuit'' or ''multichip integrated circuit'' containing an arithmetic logic unit (ALU) capable of executing a series of general purpose instructions from an internal storage, on data contained in the internal storage.

TECHNICAL NOTE 1: The ''microprocessor microcircuit'' normally does not contain integral user-accessible storage, although storage present on-the-chip may be used in performing its logic function.

TECHNICAL NOTE 2: The internal storage may be augmented by an external storage.

NOTE: This definition includes chip sets which are designed to operate together to provide the function of a ''microprocessor microcircuit.''

Microorganisms. (Cat 1 and 2) means bacteria, viruses, mycoplasms, rickettsiae, chlamydiae or fungi, whether natural, enhanced or modified, either in the form of isolated live cultures or as material including living material which has been deliberately inoculated or contaminated with such cultures.

Microprocessor microcircuit. (Cat 3)—A ''monolithic integrated circuit'' or ''multichip integrated circuit'' containing an arithmetic logic unit (ALU) capable of executing a series of general purpose instructions from an external storage.

N.B. 1: The ''microprocessor microcircuit'' normally does not contain integral user-accessible storage, although storage present on-the-chip may be used in performing its logic function.

N.B. 2: This definition includes chip sets that are designed to operate together to provide the function of a ''microprocessor microcircuit''.

Microprogram. (Cat 4 and 5)—A sequence of elementary instructions, maintained in a special storage, the execution of which is initiated by the introduction of its reference instruction into an instruction register.

Military commodity. As used in § 734.4(a)(5), supplement no. 1 to part 738 (footnote No. 3), §§ 740.2(a)(11), 740.16(a)(2), 740.16(b)(2), 742.6(a)(3), 744.9(a)(2), 744.9(b), ECCN 0A919 and (*Related Controls*) in ''600 series'' ECCNs, ''military commodity'' or ''military commodities'' means an article, material, or supply that is described on the U.S. Munitions List (22 CFR Part 121) or on the Munitions List that is published by the Wassenaar Arrangement on Export Controls for Conventional Arms and Dual-Use Goods and Technologies, but does not include software, technology and any item listed in any ECCN for which the last three numerals are 018 or any item in the ''600 series.''

Missile Technology Control Regime (MTCR). The United States and other nations in this multilateral control regime have agreed to guidelines for restricting the export and reexport of dual-use items that may contribute to the development of missiles. The MTCR Annex lists missile-related equipment and technology controlled either by the Department of Commerce's Bureau of Industry and Security—Export Administration Regulations (15 CFR Parts 730 through 799) or by the Department of State's Directorate of Defense Trade Controls—International Traffic in Arms Regulations (22 CFR Parts 120 through 130).

Missile Technology Export Control Group (MTEC). Chaired by the Department of State, the MTEC primarily reviews applications involving items controlled for Missile Technology (MT) reasons. The MTEC also reviews applications involving items not controlled for MT reasons, but destined for a country and/or end-use/end-user of concern.

''*Missiles*''. (All)—Rocket systems (including ballistic missile systems, space launch vehicles, and sounding rockets) and unmanned air vehicle systems (including cruise missile systems, target drones, and reconnaissance drones) ''capable of'' delivering at least 500 kilograms payload to a range of at least 300 kilometers. See § 746.3 for definition of a ''ballistic missile'' to be exported or reexported to Iraq or transferred within Iraq.

Monolithic integrated circuit. (Cat 3)—A combination of passive or active ''circuit elements'' or both that:

(a) Are formed by means of diffusion processes, implantation processes or deposition processes in or on a single semiconducting piece of material, a so-called 'chip';

(b) Can be considered as indivisibly associated; and

(c) Perform the function(s) of a circuit.

NOTE: ''Circuit element'': a single active or passive functional part of an electronic circuit, such as one diode, one transistor, one resistor, one capacitor, etc.

Monospectral imaging sensors. (Cat 6) are capable of acquisition of imaging data from one discrete spectral band.

More sensitive government end users (as applied to encryption items). The following national/federal/royal (departments, agencies and entities) ''government end users'' (as defined in this section of the EAR) providing the following government functions and services, are considered ''more sensitive:''

(1) Agencies, departments, boards and councils for science and technology (including research, development and state/national laboratories, but not including measurements and standards);

(2) Currency and monetary authorities (including departments and offices of the national/federal/royal reserve);

(3) Executive agents of state (including offices of president/vice president/prime minister, royal courts, national security councils, cabinet/council of ministers/supreme councils/executive councils, crown princes and other deputies of the rulers, departments and offices of political/constitutional/mainland affairs);

(4) Legislative bodies responsible for the enactment of laws;

(5) Import/export control, customs and immigration agencies and entities;

(6) Intelligence agencies and entities;

(7) Judiciary (including supreme courts and other national/federal/regional/royal high courts and tribunals);

(8) Maritime, port, railway and airport authorities;

(9) Military and armed services (including national guard, coast guard, security bureaus and paramilitary);

(10) Ministries, departments and garrisons of defense (including defense technology agencies);

(11) Ministries and departments of finance and taxation (including national/federal/royal budget and revenue authorities);

(12) Ministries and departments of foreign affairs/foreign relations/consulates/embassies;

(13) Ministries of interior, internal/home/mainland affairs, and homeland security;

(14) State/national telecommunications and information technology agencies, boards, councils and development authorities (including national information/critical infrastructure data centers, and Information and Communications Technology (ICT)/telecommunications infrastructure/spectrum planning, policy, regulation and testing);

(15) Police, investigation and other law enforcement agencies and entities (including digital crime/cybercrime/computer forensics, counter narcotics/counter terrorism/counter proliferation agencies);

(16) Prisons;

(17) Public safety agencies and entities (including national/federal/royal agencies and departments of civil defense, emergency management, and first responders).

Motion control board. (Cat 2)—An electronic ''assembly'' specially designed to provide a computer system with the capability to coordinate simultaneously the motion of axes of machine tools for ''contouring control''.

Multichip integrated circuit. (Cat 3)—Two or more ''monolithic integrated circuits'' bonded to a common ''substrate''.

Multi-data-stream processing. (Cat 4)—The ''microprogram'' or equipment architecture technique that permits simultaneous processing of two or more data sequences under the control of one or more instruction sequences by means such as:

(a) Single Instruction Multiple Data (SIMD) architectures such as vector or array processors;

(b) Multiple Single Instruction Multiple Data (MSIMD) architectures;

(c) Multiple Instruction Multiple Data (MIMD) architectures, including those that are tightly coupled, closely coupled or loosely coupled; or

(d) Structured arrays of processing elements, including systolic arrays.

Multilevel security. (Cat 5)—A class of system containing information with different sensitivities that simultaneously permits access by users with different security clearances and need-to-know, but prevents users from obtaining access to information for which they lack authorization.

NOTE: ''Multilevel security'' is computer security and not computer reliability that deals with equipment fault prevention or human error prevention in general.

Multispectral Imaging Sensors. (Cat 6)—Are capable of simultaneous or serial acquisition of imaging data from two or more discrete spectral bands. Sensors having more than twenty discrete spectral bands are sometimes referred to as hyperspectral imaging sensors.

N.E.S. N.E.S or n.e.s. is an abbreviation meaning ''not elsewhere specified''.

NATO (North Atlantic Treaty Organization). A strategic defensive organization that consists of the following member nations: Albania, Belgium, Bulgaria, Canada, Croatia, Czech Republic, Denmark, Estonia, France, Germany, Greece, Hungary, Iceland, Italy, Latvia, Lithuania, Luxembourg, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Turkey, the United Kingdom, and the United States.

NLR. NLR (''no license required'') is a symbol entered on the Electronic Export Information filing on the Automated Export System certifying that no license is required.

NSG. See Nuclear Suppliers Group.

Natural uranium. (Cat 0) means uranium containing the mixtures of isotopes occurring in nature.

Net value. The actual selling price, less shipping charges or current market price, whichever is the larger, to the same type of purchaser in the United States.

Network Access Controller. (Cat 4)—A physical interface to a distributed switching network. It uses a common medium which operates throughout at the same ''digital transfer rate'' using arbitration (e.g., token or carrier sense) for transmission. Independently from any other, it selects data packets or data groups (e.g., IEEE 802) addressed to it. It is an assembly that can be integrated into computer or telecommunications equipment to provide communications access.

Neural computer. (Cat 4)—A computational device designed or modified to mimic the behavior of a neuron or a collection of neurons (i.e., a computational device that is distinguished by its hardware capability to modulate the weights and numbers of the interconnections of a multiplicity of computational components based on previous data).

Non-standard cryptography. Means any implementation of ''cryptography'' involving the incorporation or use of proprietary or unpublished cryptographic functionality, including encryption algorithms or protocols that have not been adopted or approved by a duly recognized international standards body (e.g., IEEE, IETF, ISO, ITU, ETSI, 3GPP, TIA, and GSMA) and have not otherwise been published.

Nuclear reactor. (Cat 0 and 2) includes the items within or attached directly to the reactor vessel, the equipment which controls the level of power in the core, and the components which normally contain, come into direct contact with or control the primary coolant of the reactor core.

Nuclear Suppliers Group (NSG). The United States and other nations in this multilateral control regime have agreed to guidelines for restricting the export or reexport of items with nuclear applications. Members include: Argentina, Australia, Austria, Belarus, Belgium, Brazil, Bulgaria, Canada, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Japan, Kazakhstan, Latvia, Lithuania, Luxembourg, Malta, Mexico, the Netherlands, New Zealand, Norway, People's Republic of China, Poland, Portugal, Republic of Korea, Romania, Russia, Serbia, Slovak Republic, Slovenia, South Africa, Spain, Sweden, Switzerland, Turkey, Ukraine, the United Kingdom, and the United States. See also § 742.3 of the EAR.

Numerical control. (Cat 2)—The automatic control of a process performed by a device that makes use of numeric data usually introduced as the operation is in progress (Ref. ISO 2382).

''Object code''. (or object language) (GSN)—An equipment executable form of a convenient expression of one or more processes (''source code'' (or source language)) that has been compiled by a programming system. (See also ''source code'')

Office of Foreign Assets Control (FAC) or (OFAC). The office at the Department of the Treasury responsible for blocking assets of foreign countries

subject to economic sanctions, controlling participation by U.S. persons, including foreign subsidiaries, in transactions with specific countries or nationals of such countries, and administering embargoes on certain countries or areas of countries. (See 31 CFR parts 500 through 590.)

Open cryptographic interface. A mechanism which is designed to allow a customer or other party to insert cryptographic functionality without the intervention, help or assistance of the manufacturer or its agents, e.g., manufacturer's signing of cryptographic code or proprietary interfaces. If the cryptographic interface implements a fixed set of cryptographic algorithms, key lengths or key exchange management systems, that cannot be changed, it will not be considered an ''open'' cryptographic interface. All general application programming interfaces (e.g., those that accept either a cryptographic or non-cryptographic interface but do not themselves maintain any cryptographic functionality) will not be considered ''open'' cryptographic interfaces.

Operate autonomously. (Cat 8)—Fully submerged, without snorkel, all systems working and cruising at minimum speed at which the submersible can safely control its depth dynamically by using its depth planes only, with no need for a support vessel or support base on the surface, sea-bed or shore, and containing a propulsion system for submerged or surface use.

Operating Committee (OC). The OC voting members include representatives of appropriate agencies in the Departments of Commerce, State, Defense, Justice (for encryption exports), and Energy and the Arms Control and Disarmament Agency. The appropriate representatives of the Joint Chiefs of Staff and the Director of the Nonproliferation Center of the Central Intelligence Agency are non-voting members. The Department of Commerce representative, appointed by the Secretary, is the Chair of the OC and serves as the Executive Secretary of the Advisory Committee on Export Policy. The OC may invite representatives of other Government agencies or departments (other than those identified in this definition) to participate in the activities of the OC when matters of interest to such agencies or departments are under consideration.

Operations, Administration or Maintenance (''OAM''). (Cat 5P2) Means performing one or more of the following tasks:

(a) Establishing or managing any of the following:

(1) Accounts or privileges of users or administrators;

(2) Settings of an item; or

(3) Authentication data in support of the tasks described in paragraphs (a)(1) or (2) of this definition;

(b) Monitoring or managing the operating condition or performance of an item; or

(c) Managing logs or audit data in support of any of the tasks described in paragraphs (a) or (b) of this definition.

Note to definition of ''Operations, Administration or Maintenance'': ''OAM'' does not include any of the following tasks or their associated key management functions:

a. Provisioning or upgrading any cryptographic functionality that is not directly related to establishing or managing authentication data in support of the tasks described in paragraphs (a)(1) or (2) of this definition; or

b. Performing any cryptographic functionality on the forwarding or data plane of an item.

Optical computer. (Cat 4)—A computer designed or modified to use light to represent data and whose computational logic elements are based on directly coupled optical devices.

Optical integrated circuit. (Cat 3)—A ''monolithic integrated circuit'' or a ''hybrid integrated circuit'', containing one or more parts designed to function as photosensor or photoemitter or to perform (an) optical or (an) electro-optical function(s).

Optical switching. (Cat 5)—The routing of or switching of signals in optical form without conversion to electrical signals.

Order Party. The person in the United States who conducted the direct negotiations or correspondence with the foreign purchaser or ultimate consignee and who, as a result of these negotiations, received the order from the foreign purchaser or ultimate consignee.

Organization for the Prohibition of Chemical Weapons (OPCW). Means the international organization, located in The Hague, Netherlands, that administers the Chemical Weapons Convention.

Other party authorized to receive license. The person authorized by the applicant to receive the license. If a person and address is listed in Block 15 of the application, the Bureau of Industry and Security will send the license to that person instead of the applicant. Designation of another party to receive the license does not alter the responsibilities of the applicant, licensee or exporter.

Overall current density. (Cat 3)—The total number of ampere-turns in the coil (i.e., the sum of the number of turns multiplied by the maximum current carried by each turn) divided by the total cross-section of the coil (comprising the superconducting filaments, the metallic matrix in which the superconducting filaments are embedded, the encapsulating material, any cooling channels, etc.).

Part. This is any single unassembled element of a ''component,'' ''accessory,'' or ''attachment'' which is not normally subject to disassembly without the destruction or the impairment of design use. Examples include threaded fasteners (e.g., screws, bolts, nuts, nut plates, studs, inserts), other fasteners (e.g., clips, rivets, pins), common hardware (e.g., washers, spacers, insulators, grommets, bushings), springs and wire.

Part program. (Cat. 2)—An ordered set of instructions that is in a language and in a format required to cause operations to be effected under automatic control and that is either written in the form of a machine program on an input medium or prepared as input data for processing in a computer to obtain a machine program (Ref. ISO 2806–1980).

Payload. (MTCR context)—The total mass that can be carried or delivered by the specified rocket system or unmanned aerial vehicle (UAV) system that is not used to maintain flight.

NOTE: The particular equipment, subsystems, or components to be included in the ''payload'' depends on the type and configuration of the vehicle under construction.

TECHNICAL NOTES: a. Ballistic Missiles

1. ''Payload'' for systems with separating re-entry vehicles (RVs) includes:

i. The RVs, including:

A. Dedicated guidance, navigation, and control equipment;

B. Dedicated countermeasures equipment;

ii. Munitions of any type (e.g., explosive or non-explosive);

iii. Supporting structures and deployment mechanisms for the munitions (e.g., hardware used to attach to, or separate the RV from, the bus/post-boost vehicle) that can be removed without violating the structural integrity of the vehicle;

iv. Mechanisms and devices for safing, arming, fuzing, or firing;

v. Any other countermeasures equipment (e.g., decoys, jammers, or chaff dispensers) that separate from the RV bus/post-boost vehicle;

vi. The bus/post-boost vehicle or attitude control/velocity trim module not including systems/subsystems essential to the operation of other stages.

2. ''Payload'' for systems with non-separating re-entry vehicles includes:

i. Munitions of any type (e.g., explosive or non-explosive);

ii. Supporting structures and deployment mechanisms for the munitions that can be removed without violating the structural integrity of the vehicle;

iii. Mechanisms and devices for safing, arming, fuzing or firing;

iv. Any countermeasures equipment (e.g., decoys, jammers, or chaff dispensers) that can be removed without violating the structural integrity of the vehicle.

b. Space Launch Vehicles—''Payload'' includes:

1. Spacecraft (single or multiple), including satellites;

2. Spacecraft-to-launch vehicle adapters including, if applicable, apogee/perigee kick motors or similar maneuvering systems and separation systems;

c. Sounding Rockets—''Payload'' includes:

1. Equipment required for a mission, such as data gathering, recording or transmitting devices for mission-specific data;

2. Recovery equipment (e.g., parachutes) that can be removed without violating the structural integrity of the vehicle.

d. Cruise Missiles—''Payload'' includes:

1. Munitions of any type (e.g., explosive or non-explosive);

2. Supporting structures and mechanisms for the munitions that can be removed without violating the structural integrity of the vehicle;

3. Mechanisms and devices for safing, arming, fuzing or firing;

4. Countermeasures equipment (e.g., decoys, jammers or chaff dispensers) that can be removed without violating the structural integrity of the vehicle;

5. Signature alteration equipment that can be removed without violating the structural integrity of the vehicle;

e. Other UAVs—''Payload'' includes:

1. Munitions of any type (e.g., explosive or non-explosive);

2. Mechanisms and devices for safing, arming, fuzing or firing;

3. Countermeasures equipment (e.g., decoys, jammers or chaff dispensers) that can be removed without violating the structural integrity of the vehicle;

4. Signature alteration equipment that can be removed without violating the structural integrity of the vehicle;

5. Equipment required for a mission such as data gathering, recording or transmitting devices for mission-specific data and supporting structures that can be removed without violating the structural integrity of the vehicle;

6. Recovery equipment (e.g., parachutes) that can be removed without violating the structural integrity of the vehicle;

7. Munitions supporting structures and deployment mechanisms that can be removed without violating the structural integrity of the vehicle.

Peak power. (Cat 6)—The highest power attained in the ''pulse duration.''

Person. A natural person, including a citizen or national of the United States or of any foreign country; any firm; any government, government agency, government department, or government commission; any labor union; any fraternal or social organization; and any other association or organization whether or not organized for profit. This definition does not apply to part 760 of the EAR (Restrictive Trade Practices or Boycotts).

Personal area network. (Cat 5 Part 2)—A data communication system having all of the following characteristics:

(a) Allows an arbitrary number of independent or interconnected 'data devices' to communicate directly with each other; and

(b) Is confined to the communication between devices within the immediate vicinity of an individual person or device controller (e.g., single room, office, or automobile, and their nearby surrounding spaces).

TECHNICAL NOTE: 'Data device' means equipment capable of transmitting or receiving sequences of digital information.

Plasma atomization. (Cat 1) A process to reduce a molten stream or solid metal to droplets of 500 μm diameter or less, using plasma torches in an inert gas environment.

Port of export. The port where the cargo to be shipped abroad is laden aboard the exporting carrier. It includes, in the case of an export by mail, the place of mailing.

Power management. (Cat 7)—Changing the transmitted power of the altimeter signal so that received power at the ''aircraft'' altitude is always at the minimum necessary to determine the altitude.

Previously separated. (Cat 1) The application of any process intended to increase the concentration of the controlled isotope.

Primary flight control. (Cat 7) ''Aircraft'' stability or maneuvering control using force/moment generators, *i.e.*, aerodynamic control surfaces or propulsive thrust vectoring.

Principal element. (Cat 4)—An element is a ''principal element'' when its replacement value is more than 35% of the total value of the system of which it is an element. Element value is the price paid for the element by the manufacturer of the system, or by the system integrator. Total value is the normal international selling price to unrelated parties at the point of manufacture or consolidation of shipment.

Principal parties in interest. Those persons in a transaction that receive the primary benefit, monetary or otherwise, of the transaction. Generally, the principals in a transaction are the seller and the buyer. In most cases, the forwarding or other agent is not a principal party in interest.

Production. (General Technology Note) (All Categories)—Means all production stages, such as: product engineering, manufacture, integration, assembly (mounting), inspection, testing, quality assurance.

Production equipment. (MTCR context)—Tooling, templates, jigs, mandrels, moulds, dies, fixtures, alignment mechanisms, test equipment, other machinery and components therefor, limited to those specially designed or modified for ''development'' or for one or more phases of ''production''.

Production Facilities. (MTCR Context only). (Cat 7 and 9)—Means ''production equipment'' and specially designed ''software'' therefor integrated into installations for ''development'' or for one or more phases of ''production''.

Program. (Cat 2, 4, 5, and 6) —A sequence of instructions to carry out a process in, or convertible into, a form executable by an electronic computer.

Proof test. (Cat 5)—On-line or off-line production screen testing that dynamically applies a prescribed tensile stress over a 0.5 to 3 m length of fiber at a running rate of 2 to 5 m/s while passing between capstans approximately 150 mm in diameter. The ambient temperature is a nominal 293 K (20 °C) and relative humidity 40%.

NOTE: Equivalent national standards for executing the ''proof test'' may be used.

Proscribed person. A person who is prohibited from receiving the items at issue or participating in a transaction that is subject to the EAR without authorization under the EAR, such as persons on the Entity List or denied persons.

Publicly available encryption software. *See* § 742.15(b) of the EAR.

Published. See § 734.7 of the EAR.

Pulse compression. (Cat 6)—The coding and processing of a radar signal pulse of long time duration to one of short time duration, while maintaining the benefits of high pulse energy.

Pulse duration. (Cat 6)—Duration of a ''laser'' pulse is the time between the half-power points on the leading edge and trailing edge of an individual pulse.

Pulsed Laser. (Cat 6)—A pulsed ''laser'' is defined as having a ''pulse duration'' that is less than or equal to 0.25 seconds.

Purchaser. The person abroad who has entered into a transaction to purchase an item for delivery to the ultimate consignee. In most cases, the purchaser is not a bank, forwarding agent, or intermediary. The purchaser and ultimate consignee may be the same entity.

Pyrotechnic(s). (Cat 1) Mixtures of solid or liquid fuels and oxidizers which, when ignited, undergo an energetic chemical reaction at a controlled rate intended to produce specific time delays, or quantities of heat, noise, smoke, visible light or infrared radiation. Pyrophorics are a subclass of pyrotechnics, which contain no oxidizers but ignite spontaneously on contact with air.

Quantum cryptography. (Cat 5P2) A family of techniques for the establishment of a shared key for ''cryptography'' by measuring the quantum-mechanical properties of a physical system (including those physical properties explicitly governed by quantum optics, quantum field theory, or quantum electrodynamics).

RWA. See Return Without Action.

Radar frequency agility. (Cat 6)—Any technique that changes, in a pseudo-random sequence, the carrier frequency of a pulsed radar transmitter between pulses or between groups of pulses by an amount equal to or larger than the pulse bandwidth.

Radar spread spectrum. (Cat 6)—Any modulation technique for spreading energy originating from a signal with a relatively narrow frequency band, over a much wider band of frequencies, by using random or pseudo-random coding.

''Radiant sensitivity'' (Cat 6)—Radiant sensitivity (mA/W) = 0.807 × (wavelength in nm) × 'Quantum Efficiency (QE)'

TECHNICAL NOTE: 'QE' is usually expressed as a percentage; however, for the purposes of this formula 'QE' is expressed as a decimal number less than one, e.g., 78% is 0.78.

Range. (Cat 8)—Half the maximum distance a submersible vehicle can cover.

Range. *(MTCR context)*—The maximum distance that the specified rocket system or unmanned aerial vehicle (UAV) system is capable of traveling in the mode of stable flight as measured by the projection of its trajectory over the surface of the Earth.

TECHNICAL NOTES: a. The maximum capability based on the design characteristics of the system, when fully loaded with fuel or propellant, will be taken into consideration in determining ''range''.

b. The ''range'' for both rocket systems and UAV systems will be determined independently of any external factors such as operational restrictions, limitations imposed by telemetry, data links or other external constraints.

c. For rocket systems, the ''range'' will be determined using the trajectory that maximizes ''range'', assuming ICAO standard atmosphere with zero wind.

d. For UAV systems, the ''range'' will be determined for a one-way distance using the most fuel-efficient flight profile (e.g. cruise speed and altitude), assuming ICAO standard atmosphere with zero wind.

Readable or readability. Readable and readability mean the quality of a group of letters or numerals being recognized as complete words or numbers.

Real time bandwidth. (Cat 3)—For ''signal analyzers'', the widest frequency range for which the analyzer can continuously transform time domain data entirely into frequency-domain results, using Fourier or other discrete time transform that processes every incoming time point without gaps or windowing effects that causes a reduction of measured amplitude of more than 3 dB below the actual signal amplitude, while outputting or displaying the transformed data.

Real-time processing. (Cat 2, 4, 6, and 7)—The processing of data by a computer system providing a required level of service, as a function of available resources, within a guaranteed response time, regardless of the load of the system, when stimulated by an external event.

Reasons for Control. Reasons for Control are: Anti-Terrorism (AT), Chemical & Biological Weapons (CB), Chemical Weapons Convention (CW), Crime Control (CC), Encryption Items (EI), Firearms Convention (FC), Missile Technology (MT), National Security (NS), Nuclear Nonproliferation (NP), Regional Stability (RS), Short Supply (SS), Significant Items (SI), Surreptitious Listening (SL) and United Nations sanctions (UN). Items controlled within a particular ECCN may be controlled for more than one reason.

Recoverable commodities and software. As applied to encryption items, means any of the following:

(a) A stored data product containing a recovery feature that, when activated, allows recovery of the plaintext of encrypted data without the assistance of the end-user; or

(b) A product or system designed such that a network administrator or other authorized persons who are removed from the end-user can provide law enforcement access to plaintext without the knowledge or assistance of the end-user. This includes, for example, products or systems where plaintext exists and is accessible at intermediate points in a network or infrastructure system, enterprise-controlled recovery systems, and products which permit recovery of plaintext at the server where a system administrator controls or can provide recovery of plaintext across an enterprise.

NOTE TO THIS DEFINITION: ''Plaintext'' indicates that data that is initially received by or presented to the recoverable product before encryption takes place.

Reexport. See § 734.14 of the EAR.

Release. See § 734.15 of the EAR.

Repeatability. (Cat 7)—The closeness of agreement among repeated measurements of the same variable under the same operating conditions when changes in conditions or non-operating periods occur between measurements. (Reference: IEEE STD 528–2001 (one sigma standard deviation))

Repeatability. (MTCR Context only) (Cat 7)—According to IEEE Standard for Inertial Sensor Terminology 528–2001 in the Definitions section paragraph 2.214 titled repeatability (gyro, accelerometer) as follows: ''The closeness of agreement among repeated measurements of the same variable under the same operating conditions when changes in conditions or non-operating periods occur between measurements.''

Replacement license. An authorization by the Bureau of Industry and Security revising the information, conditions, or riders stated on a license issued by BIS. See § 750.7 of the EAR.

Required. (General Technology Note)—As applied to ''technology'' or ''software,'' refers to only that portion of ''technology'' or ''software'' which is peculiarly responsible for achieving or exceeding the controlled performance levels, characteristics or functions. Such ''required'' ''technology'' or ''software'' may be shared by different products. For example, assume product ''X'' is controlled on the CCL if it operates at or above 400 MHz and is not controlled if it operates below 400 MHz. If production technologies ''A,'' ''B,'' and ''C'' allow production at no more than 399 MHz, then technologies ''A,''

''B,'' and ''C'' are not ''required'' to produce the controlled product ''X''. If technologies ''A,'' ''B,'' ''C,'' ''D,'' and ''E'' are used together, a manufacturer can produce product ''X'' that operates at or above 400 MHz. In this example, technologies ''D'' and ''E'' are peculiarly responsible for making the controlled product and are thus ''required'' technology under the General Technology Note. (See the General Technology Note.)

NOTE 1 TO THE DEFINITION OF REQUIRED: The ITAR and the EAR often divide within each set of regulations or between each set of regulations:

(a) Controls on parts, components, accessories, attachments, and software; and

(b) Controls on the end items, systems, equipment, or other items into which those parts, components, accessories, attachments, and software are to be installed or incorporated.

NOTE 2 TO THE DEFINITION OF REQUIRED: The references to ''characteristics'' and ''functions'' are not limited to entries on the CCL that use specific technical parameters to describe the scope of what is controlled. The ''characteristics'' and ''functions'' of an item listed are, absent a specific regulatory definition, a standard dictionary's definition of the item. For example, ECCN 9A610.a controls military aircraft specially designed for a military use that are not enumerated in USML paragraph VIII(a). No performance level is identified in the entry, but the control characteristic of the aircraft is that it is specially designed ''for military use.'' Thus, any technology, regardless of significance, peculiar to making an aircraft ''for military use'' as opposed to, for example, an aircraft controlled under ECCN 9A991.a, would be technical data ''required'' for an aircraft specially designed for military use thus controlled under ECCN 9E610.

NOTE 3 TO THE DEFINITION OF REQUIRED: Unclassified technology not specifically enumerated on the USML is ''subject to the EAR'' if it is ''*required*'' for the ''development,'' ''production,'' ''use,'' operation, installation, maintenance, repair, overhaul, or refurbishing (or other terms specified in ECCNs on the CCL that control ''technology'') of a commodity or software that is subject to the EAR. Thus, for example, if unclassified technology not specifically enumerated on the USML is ''required'' for the development or production of a 9A610.x aircraft component that is to be integrated or installed in a USML VIII(a) aircraft, then the ''technology'' is controlled under ECCN 9E610, not USML VIII(i). Conversely, technical data directly related to, for example, the development or production of a component subject to the ITAR does not become subject to the EAR merely because it is developed or produced with equipment subject to the EAR.

Resolution. (Cat 2)—The least increment of a measuring device; on digital instruments, the least significant bit (Ref.: ANSI B–89.1.12).

Return Without Action (RWA). An application may be RWA'd for one of the following reasons:

(a) The applicant has requested the application be returned;

(b) A License Exception applies;

(c) The items are not under Department of Commerce jurisdiction;

(d) Required documentation has not been submitted with the application; or

(e) The applicant cannot be reached after several attempts to request additional information necessary for processing of the application.

Robot. (Cat 2 and 8)—A manipulation mechanism, which may be of the continuous path or of the point-to-point variety, may use ''sensors'', and has all the following characteristics:

(a) Is multifunctional;

(b) Is capable of positioning or orienting material, parts, tools or special devices through variable movements in a three dimensional space;

(c) Incorporates three or more closed or open loop servo-devices that may include stepping motors; and

(d) Has ''user-accessible programmability'' by means of teach/playback method or by means of an electronic computer that may be a programmable logic controller, i.e., without mechanical intervention.

NOTE: This definition does not include the following devices:

(a) Manipulation mechanisms that are only manually/teleoperator controllable;

(b) Fixed sequence manipulation mechanisms that are automated moving devices, operating according to mechanically fixed programmed motions. The program is mechanically limited by fixed stops, such as pins or cams. The sequence of motions and the selection of paths or angles are not variable or changeable by mechanical, electronic or electrical means;

(c) Mechanically controlled variable sequence manipulation mechanisms that are automated moving devices, operating according to mechanically fixed programmed motions. The program is mechanically limited by fixed, but adjustable stops, such as pins or cams. The sequence of motions and

the selection of paths or angles are variable within the fixed program pattern. Variations or modifications of the program pattern (e.g., changes of pins or exchanges of cams) in one or more motion axes are accomplished only through mechanical operations;

(d) Non-servo-controlled variable sequence manipulation mechanisms that are automated moving devices, operating according to mechanically fixed programmed motions. The program is variable, but the sequence proceeds only by the binary signal from mechanically fixed electrical binary devices or adjustable stops;

(e) Stacker cranes defined as Cartesian coordinate manipulator systems manufactured as an integral part of a vertical array of storage bins and designed to access the contents of those bins for storage or retrieval.

Rotary Atomization. (Cat 1)—A process to reduce a stream or pool of molten metal to droplets to a diameter of 500 micrometer or less by centrifugal force.

Routed export transaction. A transaction where the foreign principal party in interest authorizes a U.S. forwarding or other agent to facilitate export of items from the United States.

Run-out. (out-of-true running) (Cat 2)—Radial displacement in one revolution of the main spindle measured in a plane perpendicular to the spindle axis at a point on the external or internal revolving surface to be tested (Ref.: ISO 230 Part 1–1986, paragraph 5.61).

SHPL. (Cat 6) is equivalent to ''Super High Power Laser'', see definition for ''super high power laser.''

SNEC. See Subgroup on Nuclear Export Coordination.

Scale factor. (gyro or accelerometer) (Cat 7)—The ratio of change in output to a change in the input intended to be measured. Scale factor is generally evaluated as the slope of the straight line that can be fitted by the method of least squares to input-output data obtained by varying the input cyclically over the input range.

Schedule B numbers. The commodity numbers appearing in the current edition of the Bureau of the Census publication, Schedule B Statistical Classification of Domestic and Foreign Commodities Exported from the United States. (See part 758 of the EAR for information on use of Schedule B numbers.)

Settling time. (Cat 3)—The time required for the output to come within one-half bit of the final value when switching between any two levels of the converter.

Shield. Chaired by the Department of State, the Shield primarily reviews applications involving items controlled for Chemical and Biological Weapons (CBW) reasons. The Shield also reviews applications involving items not controlled for CBW reasons, but destined for a country and/or end-use/end-user of concern. See § 750.4 of the EAR.

Signal analyzers. (Cat 3)—Apparatus capable of measuring and displaying basic properties of the single-frequency components of multi-frequency signals.

Signal processing. (Cat 3, 4, 5, and 6)—The processing of externally derived information-bearing signals by algorithms such as time compression, filtering, extraction, selection, correlation, convolution or transformations between domains (e.g., fast Fourier transform or Walsh transform).

Single shipment. All items moving at the same time from one exporter to one consignee or intermediate consignee on the same exporting carrier, even if these items will be forwarded to one or more ultimate consignees. Items being transported in this manner shall be treated as a single shipment even if the items represent more than one order or are in separate containers.

Software. (Cat: all)—A collection of one or more ''programs'' or ''microprograms'' fixed in any tangible medium of expression.

Source code (or source language). (Cat 1, 4, 5P2, 6, 7, and 9)—A convenient expression of one or more processes that may be turned by a programming system into equipment executable form (''object code'' (or object language)).

''Space-qualified''. (Cat 3, 6, and 7) Designed, manufactured, or qualified through successful testing, for operation at altitudes greater than 100 km above the surface of the Earth.

NOTE 1: A determination that a specific item is ''space-qualified'' by virtue of testing does not mean that other items in the same production run or model series are ''space-qualified'' if not individually tested.

NOTE 2: The terms 'designed' and 'manufactured' in this definition are synonymous with ''specially designed.'' Thus, for example, an item that is ''specially designed'' for a spacecraft is deemed to be 'designed' or

'manufactured' for operation at altitudes greater than 100 km and an item that is not ''specially designed'' for a spacecraft is not deemed to have been so 'designed' or 'manufactured.'

Spacecraft. (Cat 7 and 9)—Active and passive satellites and space probes.

Spacecraft bus. (Cat 9) Equipment that provides the support infrastructure of the ''spacecraft'' and location for the ''spacecraft payload''.

Spacecraft payload. (Cat 9) Equipment, attached to the ''spacecraft bus'', designed to perform a mission in space (*e.g.*, communications, observation, science).

Specially Designated National (SDN). Any person who is determined by the Secretary of the Treasury to be a specially designated national for any reason under regulations issued by the Office of Foreign Assets Control (see 31 CFR parts 500 through 590).

Specially Designated Terrorist (SDT). Any person who is determined by the Secretary of the Treasury to be a specially designated terrorist under notices or regulations issued by the Office of Foreign Assets Control (see 31 CFR chapter V).

Specially designed. When applying this definition, follow this sequential analysis set forth below. (For additional guidance on the order of review of ''specially designed,'' including how the review of the term relates to the larger CCL, see supplement no. 4 to Part 774 of the EAR—Commerce Control List Order of Review.)

(a) Except for items described in (b), an ''item'' is ''specially designed'' if it:

(1) As a result of ''development'' has properties peculiarly responsible for achieving or exceeding the performance levels, characteristics, or functions in the relevant ECCN or U.S. Munitions List (USML) paragraph; *or*

(2) Is a ''part,'' ''component,'' ''accessory,'' ''attachment,'' or ''software'' for use in or with a commodity or defense article 'enumerated' or otherwise described on the CCL or the USML.

(b) A ''part,'' ''component,'' ''accessory,'' ''attachment,'' or ''software'' that would be *controlled* by paragraph (a) is not ''specially designed'' if it:

(1) Has been identified to be in an ECCN paragraph that does not contain ''specially designed'' as a control parameter or as an EAR99 item in a commodity jurisdiction (CJ) determination or interagency-cleared commodity classification (CCATS) pursuant to § 748.3(e);

(2) Is, regardless of 'form' or 'fit,' a fastener (e.g., screw, bolt, nut, nut plate, stud, insert, clip, rivet, pin), washer, spacer, insulator, grommet, bushing, spring, wire, solder;

(3) Has the same function, performance capabilities, and the same or 'equivalent' form and fit, as a commodity or software used in or with an item that:

(i) Is or was in ''production'' (*i.e.*, not in ''development''); *and*

(ii) Is either not 'enumerated' on the CCL or USML, or is described in an ECCN controlled only for Anti-Terrorism (AT) reasons;

(4) Was or is being developed with ''knowledge'' that it would be for use in or with commodities or software (i) described in an ECCN *and* (ii) also commodities or software either not 'enumerated' on the CCL or the USML (e.g., EAR99 commodities or software) or commodities or software described in an ECCN controlled only for Anti-Terrorism (AT) reasons;

(5) Was or is being developed as a general purpose commodity or software, i.e., with no ''knowledge'' for use in or with a particular commodity (e.g., an F/A–18 or HMMWV) or type of commodity (e.g., an aircraft or machine tool); *or*

(6) Was or is being developed with ''knowledge'' that it would be for use in or with commodities or software described (i) in an ECCN controlled for AT-only reasons and also EAR99 commodities or software; or (ii) exclusively for use in or with EAR99 commodities or software.

NOTE 1: 'Enumerated' refers to any item (i) on either the USML or CCL not controlled in a 'catch-all' paragraph and (ii) when on the CCL, controlled by an ECCN for more than Anti-Terrorism (AT) reasons only. An example of an 'enumerated' ECCN is 2A226, which controls valves with the following three characteristics: a ''nominal size'' of 5 mm or greater; having a bellows seal; *and* wholly made of or lined with aluminum, aluminum alloy, nickel, or nickel alloy containing more than 60% nickel by weight. The CCL also contains notes excluding from control

''parts'' and ''components'' ''specially designed'' for uncontrolled items. Such uncontrolled items are merely 'described' and are not 'enumerated.' Note 2 to ECCN 1A002 is an example of items excluded from control based on being ''specially designed'' for a 'described' item. Commodities or software in an ECCN controlled only for AT reasons are other examples of items 'described' on the CCL. ECCN 2B996, which controls dimensional inspection or measuring systems or equipment not controlled by 2B006, is an example of a commodity 'described' in an ECCN controlled only for AT reasons. For purposes of ''specially designed,'' ECCNs 0B986, 0B999, 0D999, 1B999, 1C992, 1C995, 1C997, 1C999, 6A998 (except for .b), and 9A991 are treated as ECCNs controlled exclusively for AT reasons.

NOTE 2: A 'catch-all' paragraph is one that does not refer to specific types of ''parts,'' ''components,'' ''accessories,'' or ''attachments'' but rather controls non-specific ''parts,'' ''components,'' ''accessories,'' or ''attachments'' because they were ''specially designed'' for an enumerated item. For example, ECCN paragraph 9A610.x is a catch-all, because it controls ''parts,'' ''components,'' ''accessories,'' and ''attachments'' ''specially designed'' for military aircraft, but does not identify specific types of ''parts,'' ''components,'' ''accessories,'' or ''attachments'' within its control. Another example of a 'catch-all' is the heading of 7A102, which controls ''specially designed'' components for the gyros enumerated in 7A102, but does not identify the specific types of ''components'' within its control.

NOTE TO PARAGRAPH (a)(1): Items that as a result of ''development'' have properties peculiarly responsible for achieving or exceeding the performance levels, 'functions' or characteristics in a relevant ECCN paragraph may have properties shared by different products. For example, ECCN 1A007 controls equipment and devices, specially designed to initiate charges and devices containing energetic materials, by electrical means. An example of equipment not meeting the peculiarly responsible standard under paragraph (a)(1) is a garage door opener, that as a result of ''development'' has properties that enable the garage door opener to send an encoded signal to another piece of equipment to perform an action (i.e., the opening of a garage door). The garage door opener is not ''specially designed'' for purposes of 1A007 because although the garage door opener could be used to send a signal by electrical means to charges or devices containing energetic materials, the garage door opener does not have properties peculiarly responsible for achieving or exceeding the performance levels, 'functions' or characteristics in 1A007. For example, the garage door opener is designed to only perform at a limited range and the level of encoding is not as advanced as the encoding usually required in equipment and devices used to initiate charges and devices containing energetic materials, by electrical means. Conversely, another piece of equipment that, as a result of ''development,'' has the properties (e.g., sending a signal at a longer range, having signals with advanced encoding to prevent interference, and having signals that are specific to detonating blasting caps) needed for equipment used to initiate charges and devices containing energetic materials, would be peculiarly responsible because the equipment has a direct and proximate causal relationship that is central or special for achieving or exceeding the performance levels, 'functions' or characteristics identified in 1A007.

NOTE 1 TO PARAGRAPH (b)(3): Commodities in ''production'' that are subsequently subject to ''development'' activities, such as those that would result in enhancements or improvements only in the reliability or maintainability of the commodity (e.g., an increased mean time between failure (MTBF)), including those pertaining to quality improvements, cost reductions, or feature enhancements, remain in ''production.'' However, any new models or versions of such commodities developed from such efforts that change the basic performance or capability of the commodity are in ''development'' until and unless they enter into ''production.''

NOTE 2 TO PARAGRAPH (b)(3): With respect to a commodity, 'equivalent' means that its form has been modified solely for 'fit' purposes.

NOTE 3 TO PARAGRAPH (b)(3): The 'form' of a commodity is defined by its configuration (including the geometrically measured configuration), material, and material properties that uniquely characterize it. The 'fit' of a commodity is defined by its ability to physically interface or interconnect with or become an integral part of another item. The 'function' of the item is the action or actions it is designed to perform. 'Performance capability' is the measure of a commodity's effectiveness to perform a designated function in a given environment (e.g., measured in terms of speed, durability, reliability, pressure, accuracy, efficiency). For software, 'form' means the design, logic flow, and algorithms. 'Fit' means the ability to interface or connect with an item subject to the EAR. The 'function' means the action or actions it performs directly to an item subject to the EAR or as a stand-alone application. 'Performance capability' means the measure of software's effectiveness to perform a designated function.

NOTE TO PARAGRAPHS (b)(3) AND (b)(4): ECCNs controlled for AT-only reasons that use ''specially designed'' are eligible for paragraphs (b)(3) and (b)(4). However, the criteria for release under (b)(3) or (b)(4) must be

met by another ECCN controlled for AT-only reasons or an EAR99 item in addition to the AT-only ECCN being reviewed for release from ''specially designed.'' For example, if a single gasket is used in ECCN 9A990 tractors (9A990 includes a control on ''specially designed'' ''parts'') and also pick-up trucks designated as EAR99 that are in ''production'', the single gasket would be released from ''specially designed'' on the basis of paragraph (b)(3). Or if the single gasket is or was used in 9A990 tractors and also 9A991.b aircraft (another AT-only controlled ECCN), that are in ''production,'' the gasket would be released from ''specially designed'' on the basis of paragraph (b)(3). Alternatively, if the single gasket is or was only used in ECCN 9A990 tractors that are in ''production,'' then paragraph (b)(3) would not be available. This same concept applies for paragraph (b)(4).

NOTE TO PARAGRAPHS (b)(4), (b)(5) AND (b)(6): For a commodity or software to be not ''specially designed'' on the basis of paragraphs (b)(4), (b)(5) *or* (b)(6), documents contemporaneous with its ''development,'' in their totality, must establish the elements of paragraphs (b)(4), (b)(5) *or* (b)(6). Such documents may include concept design information, marketing plans, declarations in patent applications, or contracts. Absent such documents, the ''commodity'' may not be excluded from being ''specially designed'' by paragraphs (b)(4), (b)(5) *or* (b)(6).

''Specific modulus''. (Cat 1)—Young's modulus in pascals, equivalent to N/m^2, divided by specific weight in N/m^3, measured at a temperature of (296 ±2) K ((23 ±2) °C) and a relative humidity of (50 ±5)%.

''Specific tensile strength''. (Cat 1)—Ultimate tensile strength in pascals, equivalent to N/m^2, divided by specific weight in N/m^3, measured at a temperature of (296 ±2) K ((23 ±2) °C) and relative humidity of (50 ±5)%.

Spectral efficiency. (Cat 5)—A figure of merit parametrized to characterize the efficiency of transmission system that uses complex modulation schemes such as QAM (quadrature amplitude modulation), Trellis coding, QSPK (Q-phased shift key), etc. It is defined as follows:

$$\text{Spectral efficiency} = \frac{\text{''Digital transfer rate''} \ \text{(bits/second)}}{\text{6 dB spectrum bandwidth (Hz).}}$$

Spinning mass gyros. (Cat 7) ''Spinning mass gyros'' are gyros which use a continually rotating mass to sense angular motion.

Splat Quenching. (Cat 1)—A process to ''solidify rapidly'' a molten metal stream impinging upon a chilled block, forming a flake-like product.

NOTE: ''Solidify rapidly'': solidification of molten material at cooling rates exceeding 1,000 K/sec.

Spread spectrum. (Cat 5)—The technique whereby energy in a relatively narrow-band communication channel is spread over a much wider energy spectrum.

Spread spectrum radar. (Cat 6)—(see ''Radar spread spectrum'')

Stability. (Cat 7)—Standard deviation (1 sigma) of the variation of a particular parameter from its calibrated value measured under stable temperature conditions. This can be expressed as a function of time.

Stored program controlled. (Cat 2, 3, and 5)—A control using instructions stored in an electronic storage that a processor can execute in order to direct the performance of predetermined functions.

NOTE: Equipment may be ''stored program controlled'' whether the electronic storage is internal or external to the equipment.

Subgroup on Nuclear Export Coordination (SNEC). Chaired by the Department of State, the SNEC primarily reviews applications involving items controlled for nuclear nonproliferation (NP) reasons. The SNEC also reviews applications involving items not controlled for NP reasons, but destined for a country and/or end-use/end-user of NP concern.

Subject to the EAR. A term used in the EAR to describe those commodities, software, technology, and activities over which the Bureau of Industry and Security (BIS) exercises regulatory jurisdiction under the EAR (See § 734.2(a) of the EAR).

Subject to the ITAR. A term used in the EAR to describe those commodities, software, technology (e.g., technical data) and defense services over which the U.S. Department of State, Directorate of Defense Trade Controls (DDTC) exercises regulatory jurisdiction under the International Traffic in Arms Regulations (ITAR) (see 22 CFR parts 120 through 130).

Substrate. (Cat 3)—A sheet of base material with or without an interconnection pattern and on which or within which ''discrete components'' or integrated circuits or both can be located.

NOTE: ''Discrete component'': a separately packaged ''circuit element'' with its own external connections.

Substrate blanks. (Cat 3 and 6)—Monolithic compounds with dimensions suitable for the production of optical elements such as mirrors or optical windows.

''Superalloy''. (Cat 2 and 9)—Nickel-, cobalt-, or iron-base alloys having strengths superior to any alloys in the AISI 300 series at temperatures over 922 K (649 °C) under severe environmental and operating conditions.

Superconductive. (Cat 1, 3, 5P1, 6, and 8)—Materials, i.e., metals, alloys, or compounds that can lose all electrical resistance, i.e., that can attain infinite electrical conductivity and carry very large electrical currents without Joule heating.

NOTE: The ''superconductive'' state of a material is individually characterized by a ''critical temperature'', a critical magnetic field that is a function of temperature, and a critical current density that is a function of both magnetic field and temperature.

Super High Power Laser. (SHPL) (Cat 6)—A ''laser'' capable of delivering (the total or any portion of) the output energy exceeding 1 kJ within 50 ms or having an average or CW power exceeding 20 kW.

Superplastic forming. (Cat 1 and 2)—A deformation process using heat for metals that are normally characterized by low elongation (less than 20%) at the breaking point as determined at room temperature by conventional tensile strength testing, in order to achieve elongations during processing that are at least 2 times those values.

Symmetric algorithm. (Cat 5, Part II) A cryptographic algorithm using an identical key for both encryption and decryption. A common use of ''symmetric algorithms'' is confidentiality of data.

System. This is any combination of ''end items,'' ''equipment,'' ''parts,'' ''components,'' ''accessories,'' ''attachments,'' firmware, or ''software'' that operate together to perform a function.

NOTE: The industrial standards established by INCOSE and NASA provide examples for when commodities and software operate together to perform a function as a system. References to these standards are included in this note to provide additional examples for when commodities or software operate together to perform a function as a system. See the INCOSE standards for what constitutes a system at (*http://g2sebok.incose.org/app/mss /asset.cfm?ID=INCOSE%20G2SEBOK %202.00&ST=F*), and in the (INCOSE SE Handbook v3.1 2007; ISO/IEC 15288:2008). Also see the NASA standards for examples of what constitutes a system in the (NASA SE Handbook SP–2007–6105 Rev 1).

Systolic array computer. (Cat 4)—A computer where the flow and modification of the data is dynamically controllable at the logic gate level by the user.

Technology. Technology means:

Information necessary for the ''development,'' ''production,'' ''use,'' operation, installation, maintenance, repair, overhaul, or refurbishing (or other terms specified in ECCNs on the CCL that control ''technology'') of an item.

N.B.: Controlled ''technology'' is defined in the General Technology Note and in the Commerce Control List (supplement no. 1 to part 774 of the EAR).

NOTE 1 TO DEFINITION OF TECHNOLOGY: ''Technology'' may be in any tangible or intangible form, such as written or oral communications, blueprints, drawings, photographs, plans, diagrams, models, formulae, tables, engineering designs and specifications, computer-aided design files, manuals or documentation, electronic media or information revealed through visual inspection;

NOTE 2 TO DEFINITION OF TECHNOLOGY: The modification of the design of an existing item creates a new item and technology for the modified design is technology for the development or production of the new item.

Terminal interface equipment. (Cat 4)—Equipment at which information enters or leaves the telecommunication systems, e.g., telephone, data device, computer, facsimile device.

Three dimensional integrated circuit. (Cat 3) A collection of semiconductor die, integrated together, and having vias passing completely through at least one die to establish interconnections between die.

Tilting spindle. (Cat 2)—A tool-handling spindle that alters, during the machining process, the angular position of its center line with respect to any other axis.

Time constant. (Cat 6)—The time taken from the application of a light stimulus for the current increment to reach a value of 1–1/e times the final value (i.e., 63% of the final value).

''Tip shroud'' (Cat 9)—A stationary ring component (solid or segmented) attached to the inner surface of the engine turbine casing or a feature at the outer tip of the turbine blade, which primarily provides a gas seal between the stationary and rotating components.

Total control of flight. (Cat 7) means an automated control of ''aircraft'' state variables and flight path to meet mission objectives responding to real time changes in data regarding objectives, hazards or other ''aircraft.''

Total digital transfer rate. (Cat 5)—The number of bits, including line coding, overhead and so forth per unit time passing between corresponding equipment in a digital transmission system. (See also ''digital transfer rate''.)

Toxins. (Cat 1 and 2) means toxins in the form of deliberately isolated preparations or mixtures, no matter how produced, other than toxins present as contaminants of other materials such as pathological specimens, crops, foodstuffs or seed stocks of ''microorganisms.''

Transfer. A shipment, transmission, or release of items subject to the EAR either within the United States or outside the United States. For *In-country transfer/Transfer (in-country)*, see § 734.16 of the EAR.

NOTE TO DEFINITION OF TRANSFER: This definition of ''transfer'' does not apply to § 750.10 of the EAR or Supplement No. 8 to part 760 of the EAR. The term ''transfer'' may also be included on licenses issued by BIS. In that regard, the changes that can be made to a BIS license are the non-material changes described in § 750.7(c) of the EAR. Any other change to a BIS license without authorization is a violation of the EAR. See §§ 750.7(c) and 764.2(e) of the EAR.

''Transfer laser''. (Cat 6)—A ''laser'' in which the lasing species is excited through the transfer of energy by collision of a non-lasing atom or molecule with a lasing atom or molecule species.

Tunable. (Cat 6)—The ability of a ''laser'' to produce a continuous output at all wavelengths over a range of several ''laser'' transitions. A line selectable ''laser'' produces discrete wavelengths within one ''laser'' transition and is not considered ''tunable''.

U.S. Person. (a) For purposes of §§ 740.21(e)(1), 744.6, 744.10, 744.11, 744.12, 744.13, and 744.14 of the EAR, the term U.S. person includes:

(1) Any individual who is a citizen of the United States, a permanent resident alien of the United States, or a protected individual as defined by 8 U.S.C. 1324b(a)(3);

(2) Any juridical person organized under the laws of the United States or any jurisdiction within the United States, including foreign branches; and

(3) Any person in the United States.

(b) See also §§ 740.9, 740.14, and 740.21(f)(2) and parts 746 and 760 of the EAR for definitions of ''U.S. person'' that are specific to those sections and parts.

U.S. subsidiary. As applied to encryption items, means

(a) A foreign branch of a U.S. company; or

(b) A foreign subsidiary or entity of a U.S. entity in which:

(1) The U.S. entity beneficially owns or controls (whether directly or indirectly) 25 percent or more of the voting securities of the foreign subsidiary or entity, if no other persons owns or controls (whether directly or indirectly) an equal or larger percentage; or

(2) The foreign entity is operated by the U.S. entity pursuant to the provisions of an exclusive management contract; or

(3) A majority of the members of the board of directors of the foreign subsidiary or entity also are members of the comparable governing body of the U.S. entity; or

(4) The U.S. entity has the authority to appoint the majority of the members of the board of directors of the foreign subsidiary or entity; or

(5) The U.S. entity has the authority to appoint the chief operating officer of the foreign subsidiary or entity.

Ultimate consignee. The principal party in interest located abroad who receives the exported or reexported items. The ultimate consignee is not a forwarding agent or other intermediary, but may be the end-user.

Unidirectional positioning repeatability. (Cat 2) The smaller of values R↑ and R↓ (forward and backward), as defined by 3.21 of ISO 230–2:2014 or national equivalents, of an individual machine tool axis.

United States. Unless otherwise stated, the 50 States, including offshore areas within their jurisdiction pursuant to section 3 of the Submerged Lands Act (43 U.S.C. 1311), the District of Columbia, Puerto Rico, and all territories, dependencies, and possessions of the United States, including foreign trade zones established pursuant to 19 U.S.C. 81A–81U, and also including the outer continental shelf, as defined in section 2(a) of the Outer Continental Shelf Lands Act (43 U.S.C. 1331(a)).

United States airline. Any citizen of the United States who is authorized by the U.S. Government to engage in business as an airline. For purposes of this definition, a U.S. citizen is:

(a) An individual who is a citizen of the United States or one of its possessions; or

(b) A partnership of which each member is such an individual; or

(c) A corporation or association created or organized under the laws of the United States, or of any State, Territory, or possession of the United States, of which the president and two-thirds of the board of directors and other managing officers thereof are such individuals and in which at least 75 percent of the voting interest is owned or controlled by persons who are citizens of the United States or of one of its possessions.

Unmanned aerial vehicle (''UAV''). (Cat 9) Any ''aircraft'' capable of initiating flight and sustaining controlled flight and navigation without any human presence on board. In addition, according to section 744.3 of the EAR, unmanned air vehicles, which are the same as ''unmanned aerial vehicles,'' include, but are not limited to, cruise missile systems, target drones and reconnaissance drones.

Usable in'', *''usable for''*, *''usable as''* or *''Capable of''*. (MTCR context)—Equipment, parts, components, materials or ''software'' which are suitable for a particular purpose. There is no need for the equipment, parts, components, materials or ''software'' to have been configured, modified or specified for the particular purpose. For example, any military specification memory circuit would be ''capable of'' operation in a guidance system.

Use. (All categories and General Technology Note)—Operation, installation (including on-site installation), maintenance (checking), repair, overhaul and refurbishing.

NOTE: If an ECCN specifies one or more of the six elements of ''use'' in the heading or control text, only those elements specified are classified under that ECCN.

User-accessible programmability. (Cat 4, 5, and 6)—The facility allowing a user to insert, modify, or replace ''programs'' by means other than:

(a) A physical change in wiring or interconnections; or

(b) The setting of function controls including entry of parameters.

Utilization facility. (a) As defined by 10 CFR 110.2 of the Nuclear Regulatory Commission Regulations, utilization facility means a nuclear reactor, other than one that is a production facility, any of the following major components of a nuclear reactor: Pressure vessels designed to contain the core of a nuclear reactor, other than one that is a production facility, and the following major components of a nuclear reactor:

(1) Primary coolant pumps;

(2) Fuel charging or discharging machines; and

(3) Control rods.

(b) Utilization facility does not include the steam turbine generator portion of a nuclear power plant.

Vacuum Atomization. (Cat 1)—A process to reduce a molten stream of metal to droplets of a diameter of 500 micrometer or less by the rapid evolution of a dissolved gas upon exposure to a vacuum.

Variable geometry airfoils. (Cat 7)—Use trailing edge flaps or tabs, or leading edge slats or pivoted nose droop, the position of which can be controlled in flight.

Vector Rate. (Cat 4)—See: ''Two dimensional Vector Rate''; ''Three dimensional Vector Rate''.

You. Any person, including a natural person, including a citizen of the United States or any foreign country; any firm; any government, government agency, government department, or government commission; any labor union; any fraternal or social organization; and any other association or organization whether or not organized for profit.

[61 FR 12925, Mar. 25, 1996]

EDITORIAL NOTE: For FEDERAL REGISTER citations affecting §772.1, see the List of CFR Sections Affected, which appears in the Finding Aids section of the printed volume and at *www.fdsys.gov*.

PART 774—THE COMMERCE CONTROL LIST

Sec.
774.1 Introduction.
774.2 [Reserved]
SUPPLEMENT NO. 1 TO PART 774—THE COMMERCE CONTROL LIST
SUPPLEMENT NO. 2 TO PART 774—GENERAL TECHNOLOGY AND SOFTWARE NOTES
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SUPPLEMENT NO. 5 TO PART 774—ITEMS CLASSIFIED UNDER ECCNS 0A521, 0B521, 0C521, 0D521 AND 0E521
SUPPLEMENT NO. 6 TO PART 774—SENSITIVE LIST
SUPPLEMENT NO. 7 TO PART 774—VERY SENSITIVE LIST

AUTHORITY: 50 U.S.C. 4601 *et seq.;* 50 U.S.C. 1701 *et seq.;* 10 U.S.C. 7420; 10 U.S.C. 7430(e); 22 U.S.C. 287c, 22 U.S.C. 3201 *et seq.;* 22 U.S.C. 6004; 42 U.S.C. 2139a; 15 U.S.C. 1824a; 50 U.S.C. 4305; 22 U.S.C. 7201 *et seq.;* 22 U.S.C. 7210; E.O. 13026, 61 FR 58767, 3 CFR, 1996 Comp., p. 228; E.O. 13222, 66 FR 44025, 3 CFR, 2001 Comp., p. 783; Notice of August 4, 2016, 81 FR 52587 (August 8, 2016).

SOURCE: 61 FR 12937, Mar. 25, 1996, unless otherwise noted.

§774.1 Introduction.

(a) *Scope of the control list.* In this part, references to the EAR are references to 15 CFR chapter VII, subchapter C. The Bureau of Industry and Security (BIS) maintains the Commerce Control List (CCL) that includes ''items''—i.e., ''commodities,'' ''software,'' and ''technology''—subject to the authority of BIS. The CCL does not include items exclusively controlled for export by another department or agency of the U.S. Government, though in instances where other agencies administer controls over related items, entries in the CCL may contain a reference to such controls. In addition, those items ''subject to the EAR'' but not identified on the CCL are identified by the designator ''EAR99.'' See §734.2(a) of the EAR for items that are ''subject to the EAR.'' EAR Part 738 contains an explanation of the organization of the CCL and its relationship to the Country Chart.

(b) *ECCN cross-references for items subject to exclusive jurisdiction of another agency.* (1) Prior to October 15, 2013, the CCL contained certain ECCNs that were only included as cross references to items subject to the export control regulations administered by the Nuclear Regulatory Commission.

(2) ECCNs formerly listed on the CCL that, as of October 15, 2013 were subject to the export licensing authority of the Nuclear Regulatory Commission at 10 CFR part 110 are: 0A001, 0B001, 0B002, 0B003, 0B004, 0B005, 0B006, 0C001, 0C002, 0C004, 0C005, 0C006, 0C201 and 1C012.

(3) The following multilateral export control regime reference is provided, as an additional point of historical reference: 0C201—INFCIRC 254 Part 1, 5.3.1(b).

NOTE TO PARAGRAPH (b): ECCNs 0D001 and 0E001 are ''subject to the ITAR'' (see 22 CFR parts 120 through 130). These ECCNs are retained on the CCL as cross references to the ITAR, although the former cross references to export licensing authority of the Nuclear Regulatory Commission (see 10 CFR part 110) for ECCN 0D001, and to the Department of Energy (see 10 CFR part 810) for 0E001 were removed from the Control(s) paragraph in the License Requirements section of these two ECCNs and added as a more general jurisdictional cross reference in a heading note added to these two ECCNs as of June 5, 2014.

(c) *Where to find the CCL?* The CCL is contained in supplement no. 1 to this part, and supplement no. 2 to this part contains the General Technology and

Software Notes relevant to entries contained in the CCL.

(d) *Conventions related to the use of quotation marks on the CCL*. The use of double quotation marks on the CCL is intended to be an aid to alert you to terms used on the CCL that are defined in part 772 (Definitions of Terms), or for purposes of ECCNs, where a definition is provided in the ''related definitions'' paragraph in the License Requirements section of ECCNs or sometimes in Notes and Technical Notes for particular ECCNs and that definition is specific to that particular ECCN. In this sense the quotes are helpful both in the use of single and double quotes, but a good compliance practice is to familiarize yourself with the defined terms in part 772, and when reviewing a control parameter on the CCL that uses a term that is not in quotes to be aware it may be defined in part 772. It is also a useful compliance practice to review the ''Related Definitions'' paragraph and Notes and Technical Notes to determine if the term is defined for purposes of a particular ECCN.

(1) *Use of double quotes*. If a term on the CCL uses double quotes it means there is a defined term in part 772. However, the absence of double quotes does not mean that a term used on the CCL is not defined in part 772. Because the CCL includes many terms that are defined in part 772, BIS's practice is to use double quotes for certain key terms and to use double quotes when needed for consistency with multilateral export control regime based entries, such as many derived from control lists, in particular for the Wassenaar Arrangement that also uses the double quotes convention. However, because of the large number of defined terms used on the CCL and a desire to avoid hindering readability by placing quotes around too many words used in particular ECCNs, BIS's practice is to not add double quotes around certain terms, such as items and commodities. This convention also applies to the use of double quotes within the Definition of Terms section under part 772.

(2) *Use of single quotes*. The CCL also includes a convention regarding the use of single quotes. Single quotes on the CCL identify a term as a defined term in the context of a particular ECCN. This convention also applies to the use of single quotes within the Definition of Terms section under part 772.

(e) *Chemicals identified by Chemical Abstracts Service (CAS) number*. In some instances chemicals are listed by name and CAS number. The list applies to chemicals of the same structural formula (including hydrates) regardless of name or CAS number. CAS numbers are shown to assist in identifying a particular chemical or mixture, irrespective of nomenclature. CAS numbers cannot be used as unique identifiers because some forms of the listed chemical have different CAS numbers, and mixtures containing a listed chemical may also have different CAS numbers.

[78 FR 61903, Oct. 4, 2013, as amended at 79 FR 32627, June 5, 2014; 81 FR 64679, Sept. 20, 2016]

§ 774.2 [Reserved]

SUPPLEMENT NO. 1 TO PART 774—THE COMMERCE CONTROL LIST

CATEGORY 0—NUCLEAR MATERIALS, FACILITIES, AND EQUIPMENT [AND MISCELLANEOUS ITEMS]

A. ''END ITEMS,'' ''EQUIPMENT,'' ''ACCESSORIES,'' ''ATTACHMENTS,'' ''PARTS,'' ''COMPONENTS,'' AND ''SYSTEMS''

0A002 Power generating or propulsion equipment "specially designed" for use with space, marine or mobile "nuclear reactors". (These items are "subject to the ITAR." See 22 CFR parts 120 through 130.)

0A018 Items on the Wassenaar Munitions List (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, AT, UN

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 1.
AT applies to entire entry	AT Column 1.
UN applies to entire entry	See § 746.1(b) for UN controls.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: $3,000 for 0A018.b
$1,500 for 0A018.c and .d

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: (1) See also 0A979, 0A988, and 22 CFR 121.1 Categories I(a), III(b–d), and X(a). (2) See ECCN 0A617.y.1 and .y.2

for items formerly controlled by ECCN 0A018.a. (3) See ECCN 1A613.c for military helmets providing less than NIJ Type IV protection and ECCN 1A613.y.1 for conventional military steel helmets that, immediately prior to July 1, 2014, were classified under 0A018.d and 0A988. (4) See 22 CFR 121.1 Category X(a)(5) and (a)(6) for controls on other military helmets.

Related Definitions: N/A

Items: a. [Reserved]

b. ''Specially designed'' components and parts for ammunition, except cartridge cases, powder bags, bullets, jackets, cores, shells, projectiles, boosters, fuses and components, primers, and other detonating devices and ammunition belting and linking machines (all of which are ''subject to the ITAR.'' (See 22 CFR parts 120 through 130);

Note: 0A018.b does not apply to ''components'' ''specially designed'' for blank or dummy ammunition as follows:

a. Ammunition crimped without a projectile (blank star);

b. Dummy ammunition with a pierced powder chamber;

c. Other blank and dummy ammunition, not incorporating components designed for live ammunition.

c. Muzzle loading (black powder) firearms with a caliber less than 20 mm that were manufactured later than 1937 and that are not reproductions of firearms manufactured earlier than 1890;

Note: 0A018.c does not control weapons used for hunting or sporting purposes that were not ''specially designed'' for military use and are not of the fully automatic type, but see ECCN 0A984 concerning shotguns.

d. [Reserved]

0A521 Any commodity subject to the EAR that is not listed elsewhere in the CCL, but which is controlled for export because it provides at least a significant military or intelligence advantage to the United States or for foreign policy reasons.

0A521 commodities are subject to RS1 controls with no license exception eligibility other than License Exception GOV for U.S. Government personnel and agencies under §740.11(b)(2)(ii) of the EAR, or an item-specific license exception identified in Supplement No. 5 to part 774 particular to an item covered under ECCN 0A521. The list of commodities determined to be classified under ECCN 0A521 controls is published in Supplement No. 5 to part 774. The license requirements and licensing policy relating to ECCN 0A521 are set forth in §742.6(a)(7) of the EAR.

0A604 Commodities related to military explosive devices and charges (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, RS, AT, UN

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 1
RS applies to entire entry	RS Column 1
AT applies to entire entry	AT Column 1
UN applies to entire entry	See §746.1(b) for UN controls

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

SPECIAL CONDITIONS FOR STA

STA: Paragraph (c)(2) of License Exception STA (§740.20(c)(2) of the EAR) may not be used for any item in this ECCN 0A604.

LIST OF ITEMS CONTROLLED

Related Controls: (1) Torpedoes, bombs, and mines are ''subject to the ITAR'' (see 22 CFR §121.1, USML Category IV). (2) Smoke bombs, non-irritant smoke flares, canisters, grenades and charges, and other pyrotechnical articles having both military and commercial applications are controlled by ECCN 1A984. (3) Certain explosive detonator firing sets, electrically driven explosive detonators, and detonators and multipoint initiation systems are controlled by ECCN 1A007 or ECCN 3A232. (4) See ECCN 0A919 for foreign-made ''military commodities'' that incorporate more than a *de minimis* amount of U.S.-origin ''600 series'' controlled content.

Related Definitions: N/A

Items: a. Demolition blocks, and detonators designed, modified, or adapted therefor.

b. Military explosive excavating devices.

Note to 0A604.a and .b: This entry does not control the detonators and other items described in ECCN 1A007 or ECCN 3A232.

c. Smoke hand grenades and stun hand grenades (e.g., ''flashbangs'') not controlled by ECCN 1A984.

d. through w. [Reserved]

x. ''Parts,'' ''components,'' ''accessories,'' and ''attachments'' that are ''specially designed'' for a commodity subject to control in paragraphs .a through .c of this ECCN, or for a defense article controlled under USML Category IV, and not specified elsewhere on the USML.

Note to 0A604.x: ''Parts,'' ''components,'' ''accessories,'' and ''attachments'' specified in USML Category IV(h) are subject to the controls of that paragraph

0A606 Ground vehicles and related commodities, as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, RS, AT, UN

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry, except 0A606.b and .y.	NS Column 1
NS applies to 0A606.b	NS Column 2
RS applies to entire entry, except 0A606.b and .y.	RS Column 1
RS applies to 0A606.b	RS Column 2
AT applies to entire entry	AT Column 1
UN applies to entire entry, except 0A606.y.	See §746.1(b) for UN controls

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: $1500

GBS: N/A

CIV: N/A

SPECIAL CONDITIONS FOR STA

STA: (1) Paragraph (c)(1) of License Exception STA (§740.20(c)(1) of the EAR) may not be used for any item in 0A606.a, unless determined by BIS to be eligible for License Exception STA in accordance with §740.20(g) (License Exception STA eligibility requests for ''600 series'' end items). (2) Paragraph (c)(2) of License Exception STA (§740.20(c)(2) of the EAR) may not be used for any item in 0A606.

LIST OF ITEMS CONTROLLED

Related Controls: (1) The ground vehicles, other articles, technical data (including software) and services described in 22 CFR part 121, Category VII are subject to the jurisdiction of the International Traffic in Arms Regulations. (2) See ECCN 0A919 for foreign-made ''military commodities'' that incorporate more than a *de minimis* amount of U.S.-origin ''600 series'' controlled content.

Related Definitions: N/A

Items: a. Ground vehicles, whether manned or unmanned, ''specially designed'' for a military use and not enumerated or otherwise described in USML Category VII.

Note 1 to paragraph .a: For purposes of paragraph .a, ''ground vehicles'' include (i) tanks and armored vehicles manufactured prior to 1956 that have not been modified since 1955 and that do not contain a functional weapon or a weapon capable of becoming functional through repair; (ii) military railway trains except those that are armed or are ''specially designed'' to launch missiles; (iii) unarmored military recovery and other support vehicles; (iv) unarmored, unarmed vehicles with mounts or hard points for firearms of .50 caliber or less; and (v) trailers ''specially designed'' for use with other ground vehicles enumerated in USML Category VII or ECCN 0A606.a, and not separately enumerated or otherwise described in USML Category VII. For purposes of this note, the term ''modified'' does not include incorporation of safety features required by law, cosmetic changes (e.g., different paint or repositioning of bolt holes) or addition of ''parts'' or ''components'' available prior to 1956.

Note 2 to paragraph .a: A ground vehicle's being ''specially designed'' for military use for purposes of determining controls under paragraph .a. entails a structural, electrical or mechanical feature involving one or more ''components'' that are ''specially designed'' for military use. Such ''components'' include:

a. Pneumatic tire casings of a kind ''specially designed'' to be bullet-proof;

b. Armored protection of vital ''parts'' (e.g., fuel tanks or vehicle cabs);

c. Special reinforcements or mountings for weapons;

d. Black-out lighting.

b. Other ground vehicles, ''parts'' and ''components,'' as follows:

b.1. Unarmed vehicles that are derived from civilian vehicles and that have all of the following:

b.1.a. Manufactured or fitted with materials or ''components'' other than reactive or electromagnetic armor to provide ballistic protection to level III (National Institute of Justice standard 0108.01, September 1985) or better;

b.1.b. A transmission to provide drive to both front and rear wheels simultaneously, including those vehicles having additional wheels for load bearing purposes whether driven or not;

b.1.c. Gross vehicle weight rating (GVWR) greater than 4,500 kg; *and*

b.1.d. Designed or modified for off-road use.

b.2. ''Parts'' and ''components'' having all of the following:

b.2.a. ''Specially designed'' for vehicles specified in paragraph .b.1 of this entry; *and*

b.2.b. Providing ballistic protection to level III (National Institute of Justice standard 0108.01, September 1985) or better.

Note 1 to paragraph b: Ground vehicles otherwise controlled by 0A606.b.1 that contain reactive or electromagnetic armor are subject to the controls of USML Category VII.

Note 2 to paragraph b: ECCN 0A606.b.1 does not control civilian vehicles ''specially designed'' for transporting money or valuables.

Note 3 to paragraph b: ''Unarmed'' means not having installed weapons, installed mountings for weapons, or special reinforcements for mounts for weapons.

c. Air-cooled diesel engines and engine blocks for armored vehicles that weigh more than 40 tons.

d. Fully automatic continuously variable transmissions for tracked combat vehicles.

e. Deep water fording kits ''specially designed'' for ground vehicles controlled by ECCN 0A606.a or USML Category VII.

f. Self-launching bridge ''components'' not enumerated in USML Category VII(g) ''specially designed'' for deployment by ground vehicles enumerated in USML Category VII or this ECCN.

g. through w. [Reserved]

x. ''Parts,'' ''components,'' ''accessories,'' and ''attachments'' that are ''specially designed'' for a commodity enumerated or otherwise described in ECCN 0A606 (except for 0A606.b or 0A606.y) or a defense article enumerated or otherwise described in USML Category VII and not elsewhere specified on the USML, in 0A606.y or 3A611.y.

y. Specific ''parts,'' ''components,'' ''accessories,'' and ''attachments'' ''specially designed'' for a commodity enumerated or otherwise described in this ECCN (other than ECCN 0A606.b) or for a defense article in USML Category VII and not elsewhere specified on the USML or the CCL, as follows, and ''parts,'' ''components,'' ''accessories,'' and ''attachments'' ''specially designed'' therefor:

y.1. Brake discs, rotors, drums, calipers, cylinders, pads, shoes, lines, hoses, vacuum boosters, and parts therefor;

y.2. Alternators and generators;

y.3. Axles;

y.4. Batteries;

y.5. Bearings (e.g., ball, roller, wheel);

y.6. Cables, cable assembles, and connectors;

y.7. Cooling system hoses;

y.8. Hydraulic, fuel, oil, and air filters, other than those controlled by ECCN 1A004;

y.9. Gaskets and o-rings;

y.10. Hydraulic system hoses, fittings, couplings, adapters, and valves;

y.11. Latches and hinges;

y.12. Lighting systems, fuses, and ''components; ''

y.13. Pneumatic hoses, fittings, adapters, couplings, and valves;

y.14. Seats, seat assemblies, seat supports, and harnesses;

y.15 Tires, except run flat; and

y.16 Windows, except those for armored vehicles.

0A614 Military training "equipment," as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, RS, AT, UN

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 1
RS applies to entire entry	RS Column 1
AT applies to entire entry	AT Column 1
UN applies to entire entry	See §746.1(b) for UN controls

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: $1500

GBS: N/A

CIV: N/A

SPECIAL CONDITIONS FOR STA

STA: Paragraph (c)(2) of License Exception STA (§740.20(c)(2)) of the EAR may not be used for any item in 0A614.

LIST OF ITEMS CONTROLLED

Related Controls: (1) Defense articles that are enumerated or otherwise described in USML Category IX and ''technical data'' (including ''software'') directly related thereto are ''subject to the ITAR''. (2) See ECCN 0A919 for foreign-made ''military commodities'' that incorporate more than a *de minimis* of US-origin ''600 series'' items. (3) ''Parts,'' ''components,'' ''accessories'' and ''attachments'' that are common to a simulator controlled by ECCN 0A614.a and to a simulated system or an end item that is controlled on the USML or elsewhere on the CCL are controlled under the same USML Category or ECCN as the ''parts,'' ''components,'' ''accessories'' and ''attachments'' of the simulated system or end item.

Related Definitions: N/A

Items: a. ''Equipment'' ''specially designed'' for military training that is not enumerated or otherwise described in USML Category IX.

Note 1 to 0A614: This entry includes operational flight trainers, radar target trainers, flight simulators for aircraft classified under ECCN 9A610.a, human-rated centrifuges, radar trainers for radars classified under ECCN 3A611, instrument flight trainers for military aircraft, navigation trainers for military items, target equipment, armament trainers, military pilotless aircraft trainers, mobile training units and training ''equipment'' for ground military operations.

Note 2 to 0A614: This entry does not apply to ''equipment'' ''specially designed'' for training in the use of hunting or sporting weapons.

b. through w. [Reserved]

x. ''Parts,'' ''components,'' ''accessories'' ''attachments'' that are ''specially designed'' for a commodity controlled by this entry or an article enumerated or otherwise described in USML Category IX, and not specified elsewhere on the USML.

0A617 Miscellaneous "equipment," materials, and related commodities (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, RS, AT, UN

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry, except 0A617.y.	NS Column 1
RS applies to entire entry, except 0A617.y.	RS Column 1
AT applies to entire entry	AT Column 1
UN applies to entire entry, except 0A617.y.	See §764.1(b) for UN controls

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: $1500

GBS: N/A

CIV: N/A

SPECIAL CONDITIONS FOR STA

STA: Paragraph (c)(2) of License Exception STA (§740.20(c)(2) of the EAR) may not be used for any item in 0A617.

LIST OF ITEMS CONTROLLED

Related Controls: (1) Defense articles, such as materials made from classified information, that are controlled by USML Category XIII, and technical data (including software) directly related thereto, are subject to the ITAR. (2) See ECCN 0A919 for foreign-made ''military commodities'' that incorporate more than a *de minimis* amount of U.S.-origin ''600 series'' controlled content. (3) For controls on self-contained diving and underwater swimming apparatus and related commodities, see ECCN 8A620.f. (4) For controls on robots, robot controllers, and robot end-effectors, see USML Category VII and ECCNs 0A606 and 2B007. (5) ''Libraries,'' *i.e.*, parametric technical databases, ''specially designed'' for military use with equipment controlled by the USML or a ''600 series'' ECCN are controlled by the technical data and technology controls pertaining to such items. (6) For controls on nuclear power generating equipment or propulsion equipment, including ''nuclear reactors,'' ''specially designed'' for military use, and ''parts'' and ''components'' ''specially designed'' therefor, see USML Categories VI, XIII, XV, and XX. (7) Simulators ''specially designed'' for military ''nuclear reactors'' are controlled by USML Category IX(b). (8) See USML Categories X, XI and XII for ''laser'' protection equipment (e.g., eye and sensor protection) ''specially designed'' for military use. (9) ''Fuel cells'' ''specially designed'' for a defense article on the USML or a commodity controlled by a ''600 series'' ECCN are controlled according to the corresponding ''600 series'' ECCN for such end items. (10) See USML Category XV for controls on fuel cells ''specially designed'' for satellite or spacecraft.

Related Definitions: N/A

Items: a. [Reserved]

b. Concealment and deception equipment ''specially designed'' for military application, including special paints, decoys, smoke or obscuration equipment and simulators, and ''parts,'' ''components,'' ''accessories,'' and ''attachments'' ''specially designed'' therefor, not controlled by USML Category XIII.

c. Ferries, bridges (other than those described in ECCN 0A606 or USML Category VII), and pontoons, ''specially designed'' for military use.

d. Test models ''specially designed'' for the ''development'' of defense articles controlled by USML Categories IV, VI, VII and VIII.

e. [Reserved]

f. ''Metal embrittlement agents.''

g. through x. [Reserved]

y. Other commodities as follows, and ''parts,'' ''components,'' ''accessories,'' and ''attachments'' ''specially designed'' therefor:

y.1. Construction equipment ''specially designed'' for military use, including such equipment ''specially designed'' for transport in aircraft controlled by USML VIII(a) or ECCN 9A610.a.

y.2. ''Parts,'' ''components,'' ''accessories,'' and ''attachments'' ''specially designed'' for commodities in paragraph .y.1 of this entry, including crew protection kits used as protective cabs.

y.3. Containers, n.e.s., ''specially designed'' for shipping or packing defense articles or items controlled by a ''600 series'' ECCN.

y.4. Field generators ''specially designed'' for military use.

y.5. Power controlled searchlights and control units therefor, ''specially designed'' for military use, and ''equipment'' mounting such units.

0A918 Miscellaneous military equipment not on the Wassenaar Munitions List (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: RS, AT, UN

Control(s)	Country Chart (See Supp. No. 1 to part 738)
RS applies to entire entry	RS Column 2.
AT applies to entire entry	AT Column 1.
UN applies to entire entry	See §746.1(b) for UN controls.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: $1500

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: See ECCN 0A617.y.5 for items formerly controlled by ECCN 0A918.a.

Related Definitions: N/A

Items: Bayonets.

0A919 "Military Commodities" Located and Produced Outside the United States as Follows (see list of items controlled).

LICENSE REQUIREMENTS

Reasons for Control: RS, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
RS applies to entire entry	RS Column 1, see §742.6(a)(3) for license requirements.
AT applies to entire entry	AT Column 1.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: (1) ''Military commodities'' are subject to the export licensing jurisdiction of the Department of State if they incorporate items that are subject to the International Traffic in Arms Regulations (ITAR) (22 CFR Parts 120–130). (2) ''Military commodities'' described in this paragraph are subject to the export licensing jurisdiction of the Department of State if such commodities are described on the U.S. Munitions List (22 CFR Part 121) and are in the United States. (3) The furnishing of assistance (including training) to foreign persons, whether in the United States or abroad, in the design, development, engineering, manufacture, production, assembly, testing, repair, maintenance, modification, operation, demilitarization, destruction, processing, or use of defense articles that are subject to the ITAR; or the furnishing to foreign persons of any technical data controlled under 22 CFR 121.1 whether in the United States or abroad are under the licensing jurisdiction of the Department of State. (4) Brokering activities (as defined in 22 CFR 129) of ''military commodities'' that are subject to the ITAR are under the licensing jurisdiction of the Department of State.

Related Definitions: ''Military commodity'' or ''military commodities'' means an article, material or supply that is described on the U.S. Munitions List (22 CFR Part 121) or on the Munitions List that is published by the Wassenaar Arrangement on Export Controls for Conventional Arms and Dual-Use Goods and Technologies (i.e., the Wassenaar Arrangement Munitions List (WAML)), but does not include software, technology, any item listed in any ECCN for which the last three numerals are 018, or any item in the ''600 series.''

Items:

a. ''Military commodities'' produced and located outside the United States that are not subject to the International Traffic in Arms Regulations (22 CFR parts 120–130) and having any of the following characteristics:

a.1. Incorporate more than a *de minimis* amount of U.S.-origin controlled content classified under ECCNs 6A002, 6A003, 6A990, or 6A993.a (having a maximum frame rate equal to or less than 9 Hz and thus meeting the criterion of Note 3.a to 6A003.b.4);

a.2. Incorporate more than a *de minimis* amount of U.S.-origin ''600 series'' controlled content (see §734.4 of the EAR); *or*

a.3. Are direct products of U.S.-origin ''600 series'' technology or software (see §736.2(b)(3) of the EAR).

b. [Reserved]

0A978 Law enforcement striking weapons, including saps, police batons, side handle batons, tonfas, sjamboks, and whips.

LICENSE REQUIREMENTS

Reason for Control: CC

Control(s)	Country Chart (See Supp. No. 1 to part 738)
CC applies to entire entry	CC Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading.

0A979 Police helmets and shields; and "specially designed" "components," n.e.s.

LICENSE REQUIREMENTS

Reason for Control: CC

Control(s)	Country Chart (See Supp. No. 1 to part 738)
CC applies to entire entry	CC Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading.

0A980 Horses by sea.

LICENSE REQUIREMENTS

Reason for Control: SS

Control(s): SS applies to entire entry. For licensing requirements (and possible License Exceptions) proceed directly to part 754 of the EAR. The Commerce Country Chart is not designed to determine licensing requirements for items controlled for SS reasons

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading

0A981 Equipment designed for the execution of human beings as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: CC

Control(s): CC applies to entire entry. A license is required for ALL destinations regardless of end-use. Accordingly, a column specific to this control does not appear on the Commerce Country Chart. (See §742.7 of the EAR for additional information.)

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A
GBS: N/A
CIV: N/A
LIST OF ITEMS CONTROLLED
Related Controls: N/A
Related Definitions: N/A
Items: a. Gallows and guillotines.
b. Electric chairs for the purpose of executing human beings.
c. Air tight vaults designed for the execution of human beings by the administration of a lethal gas or substance.
d. Automatic drug injection systems designed for the execution of human beings by administration of a lethal substance.

0A982 Law enforcement restraint devices, including leg irons, shackles, and handcuffs; straight jackets; stun cuffs; shock belts; shock sleeves; multipoint restraint devices such as restraint chairs; and "specially designed" "parts," "components" and "accessories," n.e.s.

LICENSE REQUIREMENTS
Reason for Control: CC
Control(s): CC applies to entire entry. A license is required for ALL destinations, except Canada, regardless of end-use. Accordingly, a column specific to this control does not appear on the Commerce Country Chart. (See part 742 of the EAR for additional information.)
LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
LVS: N/A
GBS: N/A
CIV: N/A
LIST OF ITEMS CONTROLLED
Related Controls: Thumbcuffs and fingercuffs are classified under ECCN 0A983, ''specially designed'' implements of torture. Restraint devices that electronically monitor or report the location of confined persons for law enforcement or penal reasons are controlled under ECCN 3A981.
Related Definitions: N/A
Items: The list of items controlled is contained in the ECCN heading.
Note to ECCN 0A982. This ECCN applies to restraint devices used in law enforcement activities. It does not apply to medical devices that are equipped to restrain patient movement during medical procedures. It does not apply to devices that confine memory impaired patients to appropriate medical facilities. It does not apply to safety equipment such as safety belts or child automobile safety seats.

0A983 "Specially designed" implements of torture, including thumbscrews, thumbcuffs, fingercuffs, spiked batons, and "specially designed" "parts," "components" and "accessories," n.e.s.

LICENSE REQUIREMENTS
Reason for Control: CC
Control(s): CC applies to entire entry. A license is required for ALL destinations, regardless of end-use. Accordingly, a column specific to this control does not appear on the Commerce Country Chart. (See part 742 of the EAR for additional information.)
LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
LVS: N/A
GBS: N/A
CIV: N/A
LIST OF ITEMS CONTROLLED
Related Controls: N/A
Related Definitions: N/A
Items: The list of items controlled is contained in the ECCN heading
Note to ECCN 0A983. In this ECCN, ''torture'' has the meaning set forth in Section 2340(1) of Title 18, United States Code.

0A984 Shotguns with barrel length 18 inches (45.72 cm) or over; receivers; barrels of 18 inches (45.72 cm) or longer but not longer than 24 inches (60.96 cm); complete trigger mechanisms; magazines and magazine extension tubes; complete breech mechanisms; buckshot shotgun shells; except equipment used exclusively to treat or tranquilize animals, and except arms designed solely for signal, flare, or saluting use.

LICENSE REQUIREMENTS
Reason for Control: CC, FC, UN

Control(s)	Country Chart (See Supp. No. 1 to part 738)
FC applies to entire entry	FC Column 1.
CC applies to shotguns with a barrel length greater than or equal to 18 in. (45.72 cm), but less than 24 in. (60.96 cm), shotgun ''components'' controlled by this entry, and buckshot shotgun shells controlled by this entry, regardless of end-user.	CC Column 1
CC applies to shotguns with a barrel length greater than or equal to 24 in. (60.96 cm), regardless of end-user.	CC Column 2.
CC applies to shotguns with a barrel length greater than or equal to 24 in. (60.96 cm) if for sale or resale to police or law enforcement.	CC Column 3.
UN applies to entire entry	See §746.1(b) for UN controls.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
LVS: N/A
GBS: N/A
CIV: N/A
LIST OF ITEMS CONTROLLED
Related Controls: This entry does not control shotguns with a barrel length of less than

18 inches (45.72 cm). These items are ''subject to the ITAR'' (see 22 CFR parts 120 through 130).

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading.

0A985 Discharge type arms and devices to administer electric shock, for example, stun guns, shock batons, shock shields, electric cattle prods, immobilization guns and projectiles; except equipment used exclusively to treat or tranquilize animals, and except arms designed solely for signal, flare, or saluting use; and "specially designed" "parts" and "components," n.e.s.

LICENSE REQUIREMENTS

Reason for Control: CC, UN

Control(s)	Country Chart (See Supp. No. 1 to part 738)
CC applies to entire entry. A license is required for ALL destinations, except Canada, regardless of end-use. Accordingly, a column specific to this control does not appear on the Commerce Country Chart. (See part 742 of the EAR for additional information.)	
UN applies to entire entry	See § 746.1(b) for UN controls.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: Law enforcement restraint devices that administer an electric shock are controlled under ECCN 0A982. Electronic devices that monitor and report a person's location to enforce restrictions on movement for law enforcement or penal reasons are controlled under ECCN 3A981.

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading.

0A986 Shotgun shells, except buckshot shotgun shells, "specially designed" "parts" and "components."

LICENSE REQUIREMENTS

Reason for Control: AT, FC, UN

Control(s)	
AT applies to entire entry. A license is required for items controlled by this entry to North Korea for anti-terrorism reasons. The Commerce Country Chart is not designed to determine AT licensing requirements for this entry. See § 742.19 of the EAR for additional information.	
FC applies to entire entry	FC Column 1.
UN applies to entire entry	See § 746.1(b) for UN controls.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading

0A987 Optical sighting devices for firearms (including shotguns controlled by 0A984); and "components" as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: FC, CC, UN

Control(s)	Country Chart (See Supp. No. 1 to part 738)
FC applies to optical sights for firearms, including shotguns described in ECCN 0A984, and related parts.	FC Column 1.
CC applies to entire entry	CC Column 1.
UN applies to entire entry	See § 746.1(b) for UN controls.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: (1) See USML Category I(f) for riflescopes subject to the ITAR that are not night sighting devices. (2) See USML Category XII(c) for sighting devices using second generation image intensifier tubes having luminous sensitivity greater than 350 μA/lm, or third generation or higher image intensifier tubes, that are subject to the ITAR. (3) See USML Category XII(b) for laser aiming or laser illumination systems subject to the ITAR. (4) Section 744.9 imposes a license requirement on certain commodities described in 0A987 if being exported, reexported, or transferred (in-country) for use by a military end-user or for

incorporation into an item controlled by ECCN 0A919.

Related Definitions: N/A

Items: a. Telescopic sights.

b. Holographic sights.

c. Reflex or ''red dot'' sights.

d. Reticle sights.

e. Other sighting devices that contain optical elements.

f. Laser aiming devices or laser illuminators ''specially designed'' for use on firearms, and having an operational wavelength exceeding 400 nm but not exceeding 710 nm.

Note: 0A987.f does not control laser boresighting devices that must be placed in the bore or chamber to provide a reference for aligning the firearms sights.

g. Lenses, other optical elements and adjustment mechanisms for articles in paragraphs a, b, c, d or e.

0A988 Conventional military steel helmets as described by 0A018.d.1.

No items currently are in this ECCN. See ECCN 1A613.y.1 for conventional steel helmets that, immediately prior to July 1, 2014, were classified under 0A988.

0A998 Oil and gas exploration equipment, software, and data, as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: Foreign policy

Control(s):	Country chart
Russian industry sector sanction applies to entire entry.	See § 746.5 for specific license requirements and license review policy.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: a. Oil and gas exploration data, e.g., seismic analysis data.

b. Hydraulic fracturing items, as follows:

b.1. Hydraulic fracturing design and analysis software and data.

b.2. Hydraulic fracturing 'proppant,' 'fracking fluid,' and chemical additives therefor.

Technical Note: A 'proppant' is a solid material, typically treated sand or man-made ceramic materials, designed to keep an induced hydraulic fracture open, during or following a fracturing treatment. It is added to a 'fracking fluid' which may vary in composition depending on the type of fracturing used, and can be gel, foam or slickwater-based.

b.3. High pressure pumps.

0A999 Specific Processing Equipment, as Follows (See List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: AT

Control(s):

Country Chart. AT applies to entire entry. A license is required for items controlled by this entry to North Korea for anti-terrorism reasons. The Commerce Country Chart is not designed to determine AT licensing requirements for this entry. See § 742.19 of the EAR for additional information.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: a. Ring Magnets;

b. Reserved.

B. ''TEST'', ''INSPECTION'' AND ''PRODUCTION EQUIPMENT''

0B521 Any commodity subject to the EAR that is not listed elsewhere in the CCL, but which is controlled for export because it provides at least a significant military or intelligence advantage to the United States or for foreign policy reasons.

0B521 commodities are subject to RS1 controls with no license exception eligibility other than License Exception GOV for U.S. Government personnel and agencies under § 740.11(b)(2)(ii) of the EAR, or an item- specific license exception identified in Supplement No. 5 to part 774 particular to an item covered under ECCN 0B521. The list of commodities determined to be classified under ECCN 0B521 controls is published in Supplement No. 5 to part 774. The license requirements and licensing policy relating to ECCN 0B521 are set forth in § 742.6(a)(7) of the EAR.

0B604 Test, inspection, and production "equipment" and related commodities "specially designed" for the "development," "production," repair, overhaul, or refurbishing of commodities in ECCN 0A604 or related defense articles in USML Category IV (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, RS, AT, UN

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 1
RS applies to entire entry	RS Column 1
AT applies to entire entry	AT Column 1
UN applies to entire entry	See § 746.1(b) for UN controls

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: $1500

GBS: N/A

CIV: N/A

SPECIAL CONDITIONS FOR STA

STA: Paragraph (c)(2) of License Exception STA (§740.20(c)(2) of the EAR) may not be used for any item in this ECCN 0B604.

LIST OF ITEMS CONTROLLED

Related Controls: (1) See ECCN 9B604, which controls test, inspection, and production ''equipment'' and related commodities ''specially designed'' for the ''development'' or ''production'' of commodities in ECCN 9A604 or related defense articles in USML Category IV. (2) See ECCN 0A919 for foreign-made ''military commodities'' that incorporate more than a *de minimis* amount of US-origin ''600 series'' controlled content.

Related Definitions: N/A

Items: a. Test, inspection, and other production ''equipment'' that are ''specially designed'' for the ''development,'' ''production,'' repair, overhaul, or refurbishing of commodities controlled by ECCN 0A604 or for bombs, torpedoes, depth charges, mines and hand grenades, and parts, components, accessories and attachments therefor, controlled under USML Category IV.

b. through w. [Reserved]

x. ''Parts,'' ''components,'' ''accessories,'' and ''attachments'' that are ''specially designed'' for a commodity subject to control in paragraph .a of this ECCN.

0B606 Test, inspection, and production "equipment" and related commodities, not enumerated on the USML, "specially designed" for the "development," "production," repair, overhaul, or refurbishing of commodities enumerated or otherwise described in ECCN 0A606 or USML Category VII (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, RS, AT, UN

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 1
RS applies to entire entry	RS Column 1
AT applies to entire entry	AT Column 1
UN applies to entire entry	See §746.1(b) for UN controls

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: $1500

GBS: N/A

CIV: N/A

SPECIAL CONDITIONS FOR STA

STA: Paragraph (c)(2) of License Exception STA (§740.20(c)(2) of the EAR) may not be used for any item in 0B606.

LIST OF ITEMS CONTROLLED

Related Controls: (1) Ground vehicles, other articles, technical data (including software) and services described in 22 CFR part 121, Category VII are subject to the jurisdiction of the International Traffic in Arms Regulations. (2) See ECCN 0A919 for foreign-made ''military commodities'' that incorporate more than a *de minimis* amount of U.S.-origin ''600 series'' controlled content.

Related Definitions: N/A

Items: a. Test, inspection, and production ''equipment'' ''specially designed'' for the ''development,'' ''production,'' repair, overhaul, or refurbishing of commodities enumerated or otherwise described in ECCN 0A606 (except for 0A606.b or 0A606.y) or in USML Category VII, and ''parts,'' ''components,'' ''accessories,'' and ''attachments'' ''specially designed'' therefor.

Note 1: ECCN 0B606 includes (i) armor plate drilling machines, other than radial drilling machines, (ii) armor plate planing machines, (iii) armor plate quenching presses; and (iv) tank turret bearing grinding machines.

b. Environmental test facilities ''specially designed'' for the certification, qualification, or testing of commodities enumerated or otherwise described in ECCN 0A606 (except for 0A606.b or 0A606.y) or in USML Category VII, and ''equipment'' ''specially designed'' therefor.

0B614 Test, inspection, and production "equipment" for military training "equipment" and "specially designed" "parts," "components," "accessories" and "attachments" therefor, as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, RS, AT, UN

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 1
RS applies to entire entry	RS Column 1
AT applies to entire entry	AT Column 1
UN applies to entire entry	See §746.1(b) for UN controls

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: $1500

GBS: N/A

CIV: N/A

SPECIAL CONDITIONS FOR STA

STA: Paragraph (c)(2) of License Exception STA (§740.20(c)(2) of the EAR) may not be used for any item in 0B614.

LIST OF ITEMS CONTROLLED

Related Controls: See ECCN 0A919 for foreign-made ''military commodities'' that incorporate more than a *de minimis* amount of US-origin ''600 series'' controlled content.

Related Definitions: N/A

Items: a. Test, inspection, and other production ''equipment'' ''specially designed'' for the ''development,'' ''production,'' repair, overhaul, or refurbishing of commodities controlled by ECCN 0A614 or articles enumerated or otherwise described in USML Category IX.

b. through .w [Reserved]

x. ''Parts,'' ''components,'' ''accessories'' and ''attachments'' that are ''specially designed'' for a commodity controlled by ECCN 0B614.

0B617 Test, inspection, and production "equipment" and related commodities "specially designed" for the "development," "production," repair, overhaul, or refurbishing of commodities enumerated or otherwise described in ECCN 0A617 or USML Category XIII, and "parts," "components," "accessories," and "attachments" "specially designed" therefor (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, RS, AT, UN

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 1
RS applies to entire entry	RS Column 1
AT applies to entire entry	AT Column 1
UN applies to entire entry	See §746.1(b) for UN controls

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: $1500

GBS: N/A

CIV: N/A

SPECIAL CONDITIONS FOR STA

STA: Paragraph (c)(2) of License Exception STA (§740.20(c)(2) of the EAR) may not be used for any item in 0B617.

LIST OF ITEMS CONTROLLED

Related Controls: See ECCN 0A919 for foreign-made ''military commodities'' that incorporate more than a *de minimis* amount of U.S.-origin ''600 series'' controlled content.

Related Definitions: N/A

Items: a. Test, inspection, and production ''equipment'' not controlled by USML Category XIII(k) ''specially designed'' for the ''production,'' ''development,'' repair, overhaul, or refurbishing of commodities enumerated or otherwise described in ECCN 0A617, (except for 0A617.y) or USML Category XIII, and ''parts,'' ''components,'' ''accessories,'' and ''attachments'' ''specially designed'' therefor.

b. [Reserved]

Note: Field engineer equipment ''specially designed'' for use in a combat zone, identified in the Wassenaar Arrangement Munitions List 17.d, and mobile repair shops ''specially designed'' or modified to service military equipment, identified in Wassenaar Arrangement Munitions List 17.j, are controlled by 0B617 to the extent that the items are not included in USML Category XIII(k).

0B986 Equipment "specially designed" for manufacturing shotgun shells; and ammunition hand-loading equipment for both cartridges and shotgun shells.

LICENSE REQUIREMENTS

Reason for Control: AT, UN.

Control(s): AT applies to entire entry. A license is required for items controlled by this entry to North Korea for anti-terrorism reasons. The Commerce Country Chart is not designed to determine AT licensing requirements for this entry. See §742.19 of the EAR for additional information.

UN applies to entire entry. See §746.1(b) for UN controls.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading

0B999 Specific Processing Equipment, as Follows (See List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: AT, RS

Control(s)	Country Chart (See Supp. No. 1 to part 738)
AT applies to entire entry.	A license is required for items controlled by this entry to North Korea for anti-terrorism reasons. The Commerce Country Chart is not designed to determine AT license requirements for this entry. See §742.19 of the EAR for additional information.
RS applies to entire entry.	A license is required for items controlled by this entry for export or reexport to Iraq or transfer within Iraq for regional stability reasons. The Commerce Country Chart is not designed to determine RS license requirements for this entry. See §§742.6 and 746.3 of the EAR for additional information.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
LVS: N/A
GBS: N/A
CIV: N/A
LIST OF ITEMS CONTROLLED
Related Controls: N/A
Related Definitions: N/A
Items: a. Hot cells;
b. Glove boxes suitable for use with radioactive materials.

C. ''MATERIALS''

0C521 Any material subject to the EAR that is not listed elsewhere in the CCL, but which is controlled for export because it provides at least a significant military or intelligence advantage to the United States or for foreign policy reasons.

0C521 materials are subject to RS1 controls with no license exception eligibility other than License Exception GOV for U.S. Government personnel and agencies under §740.11(b)(2)(ii) of the EAR, or an item-specific license exception identified in Supplement No. 5 to part 774 particular to an item covered under ECCN 0C521. The list of materials determined to be classified under ECCN 0C521 controls is published in Supplement No. 5 to part 774. The license requirements and licensing policy relating to ECCN 0C521 are set forth in §742.6(a)(7) of the EAR.

0C606 Materials "specially designed" for commodities controlled by ECCN 0A606 not elsewhere specified in the USML (see List of Items Controlled).

LICENSE REQUIREMENTS
Reason for Control: NS, RS, AT, UN

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 1
RS applies to entire entry	RS Column 1
AT applies to entire entry	AT Column 1
UN applies to entire entry	See §746.1(b) for UN controls

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
LVS: $1500
GBS: N/A
CIV: N/A
SPECIAL CONDITIONS FOR STA
STA: Paragraph (c)(2) of License Exception STA (§740.20(c)(2) of the EAR) may not be used for any item in 0C606.
LIST OF ITEMS CONTROLLED
Related Controls: (1) Materials that are subject to the jurisdiction of the ITAR are described in USML Category XIII. (2) See ECCN 0A919 for foreign-made ''military commodities'' that incorporate more than a *de minimis* amount of U.S.-origin ''600 series'' controlled content.
Related Definitions: N/A
Items: Materials ''specially designed'' for commodities enumerated or otherwise described in ECCN 0A606 (other than 0A606.b or 0A606.y) or USML Category VII, not elsewhere specified in the USML or the CCL.

Note: Materials ''specially designed'' for both ground vehicles enumerated or otherwise described in USML Category VII and ground vehicles enumerated or otherwise described in ECCN 0A606 are subject to the controls of this ECCN unless identified in USML Category VII(g) as being subject to the controls of that paragraph.

0C617 Miscellaneous Materials "Specially Designed" for Military Use (see List of Items Controlled).

LICENSE REQUIREMENTS
Reason for Control: NS, RS, AT, UN

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 1
RS applies to entire entry	RS Column 1
AT applies to entire entry	AT Column 1
UN applies to entire entry	See §746.1(b) for UN controls

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
LVS: $1500
GBS: N/A
CIV: N/A
SPECIAL CONDITIONS FOR STA
STA: Paragraph (c)(2) of License Exception STA (§740.20(c)(2) of the EAR) may not be used for any item in 0C617.
LIST OF ITEMS CONTROLLED
Related Controls: (1) For controls on other signature suppression materials, see USML Category XIII and ECCNs 1C001 and 1C101. (2) See ECCN 0A919 for foreign-made ''military commodities'' that incorporate more than a *de minimis* amount of U.S.-origin ''600 series'' controlled content.
Related Definitions: N/A
Items: a. Materials, coatings and treatments for signature suppression, ''specially designed'' for military use to reduce detectability or observability and that are not controlled by USML Category XIII or ECCNs 1C001 or 1C101.
b. [Reserved]

D. ''SOFTWARE''

0D001 "Software" "specially designed" or modified for the "development," "production," or "use" of commodities described in 0A002. (These items are "subject to the ITAR." See 22 CFR parts 120 through 130.)

Heading Note: Certain ''software'' for the ''development,'' ''production,'' or ''use'' of nuclear related commodities is subject to the export licensing authority of the Nuclear Regulatory Commission (see 10 CFR part 110).
LICENSE REQUIREMENTS

Control(s): ''Software'' for items described in 0A002 is ''subject to the ITAR'' (see 22 CFR parts 120 through 130).

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: The List of Items Controlled is contained in the ECCN heading.

0D521 Any software subject to the EAR that is not listed elsewhere in the CCL, but which is controlled for export because it provides at least a significant military or intelligence advantage to the United States or for foreign policy reasons.

0D521 software is subject to RS1 controls with no license exception eligibility other than License Exception GOV for U.S. Government personnel and agencies under §740.11(b)(2)(ii) of the EAR, or an item-specific license exception identified in Supplement No. 5 to part 774 particular to an item covered under ECCN 0D521. The list of software determined to be classified under ECCN 0D521 controls is published in Supplement No. 5 to part 774. The license requirements and licensing policy relating to ECCN 0D521 are set forth in §742.6(a)(7) of the EAR.

0D604 "Software" "specially designed" for the "development," "production," operation, or maintenance of commodities controlled by ECCN 0A604 or 0B604 (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, RS, AT, UN

Control(s)	Country chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 1
RS applies to entire entry	RS Column 1
AT applies to entire entry	AT Column 1
UN applies to entire entry	See §746.1(b) for UN controls

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

SPECIAL CONDITIONS FOR STA

STA: Paragraph (c)(2) of License Exception STA (§740.20(c)(2) of the EAR) may not be used for any item in this ECCN 0D604.

LIST OF ITEMS CONTROLLED

Related Controls: (1) ''Software'' directly related to articles enumerated in USML Category IV is controlled under USML Category IV(i). (2) See ECCN 0A919 for foreign-made ''military commodities'' that incorporate more than a *de minimis* amount of U.S.-origin ''600 series'' controlled content.

Related Definitions: N/A

Items: a. ''Software'' ''specially designed'' for the ''development,'' ''production,'' operation, or maintenance of commodities controlled by ECCN 0A604 or 0B604.

b. [Reserved]

0D606 "Software" "specially designed" for the "development," "production," operation, or maintenance of ground vehicles and related commodities controlled by 0A606, 0B606, or 0C606 (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, RS, AT, UN

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry, except 0D606.y.	NS Column 1
RS applies to entire entry, except 0D606.y.	RS Column 1
AT applies to entire entry	AT Column 1
UN applies to entire entry, except 0D606.y.	See §746.1(b) for UN controls

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

SPECIAL CONDITIONS FOR STA

STA: Paragraph (c)(2) of License Exception STA (§740.20(c)(2) of the EAR) may not be used for any software in 0D606.

LIST OF ITEMS CONTROLLED

Related Controls: (1) Software directly related to articles enumerated or otherwise described in USML Category VII are subject to the controls of USML paragraph VII(h). (2) See ECCN 0A919 for foreign made ''military commodities'' that incorporate more than a *de minimis* amount of U.S.-origin ''600 series'' controlled content.

Related Definitions: N/A

Items: a. ''Software'' ''specially designed'' for the ''development,'' ''production,'' operation, or maintenance of commodities controlled by ECCN 0A606 (except for ECCNs 0A606.b or 0A606.y).

b. through x. [Reserved]

y. Specific ''software'' ''specially designed'' for the ''production,'' ''development,'' operation, or maintenance of commodities described in ECCN 0A606.y.

0D614 "Software" related to military training "equipment," as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, RS, AT, UN

ONTROL(S)

Control(s)	Country chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 1

ONTROL(S)—Continued

Control(s)	Country chart (See Supp. No. 1 to part 738)
RS applies to entire entry	RS Column 1
AT applies to entire entry	AT Column 1
UN applies to entire entry	See § 746.1(b) for UN controls

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

SPECIAL CONDITIONS FOR STA

STA: Paragraph (c)(2) of License Exception STA (§740.20(c)(2) of the EAR) may not be used for any ''software'' in 0D614.

LIST OF ITEMS CONTROLLED

Related Controls: (1) ''Software'' directly related to articles enumerated in USML Category IX is subject to the control of USML paragraph IX(e). (2) See ECCN 0A919 for foreign made ''military commodities'' that incorporate more than a *de minimis* amount of US-origin ''600 series'' items.

Related Definitions: N/A

Items: a. ''Software'' ''specially designed'' for the ''development,'' ''production,'' operation, or maintenance of commodities controlled by ECCNs 0A614 or 0B614.

b. [Reserved]

0D617 "Software" "specially designed" for the "development," "production," operation, or maintenance of commodities controlled by 0A617, "equipment" controlled by 0B617, or materials controlled by 0C617 (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, RS, AT, UN

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry, except 0D617.y.	NS Column 1
RS applies to entire entry, except 0D617.y.	RS Column 1
AT applies to entire entry	AT Column 1
UN applies to entire entry, except 0D617.y.	See § 746.1(b) for UN controls

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

SPECIAL CONDITIONS FOR STA

STA: Paragraph (c)(2) of License Exception STA (§740.20(c)(2) of the EAR) may not be used for any ''software'' in 0D617.

LIST OF ITEMS CONTROLLED

Related Controls: (1) ''Software'' directly related to articles controlled by USML Category XIII is subject to the control of USML paragraph XIII(1). (2) See ECCN 0A919 for foreign-made ''military commodities'' that incorporate more than a *de minimis* amount of U.S.-origin ''600 series'' controlled content.

Related Definitions: N/A

Items: a. ''Software'' (other than ''software'' controlled in paragraph .y of this entry) ''specially designed'' for the ''development,'' ''production,'' operation or maintenance of commodities controlled by ECCNs 0A617 (except 0A617.y), 0B617, or 0C617.

b. to x. [Reserved]

y. Specific ''software'' ''specially designed'' for the ''production,'' ''development,'' operation or maintenance of commodities controlled by ECCN 0A617.y.

0D999 Specific Software, as Follows (See List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: AT, RS

Control(s)	Country Chart (See Supp. No. 1 to part 738)
AT applies to entire entry	A license is required for items controlled by this entry to North Korea for anti-terrorism reasons. The Commerce Country Chart is not designed to determine AT license requirements for this entry. See § 742.19 of the EAR for additional information.
RS applies to entire entry.	A license is required for items controlled by this entry for export or reexport to Iraq or transfer within Iraq for regional stability reasons. The Commerce Country Chart is not designed to determine RS license requirements for this entry. See §§ 742.6 and 746.3 of the EAR for additional information.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: a. Software for neutronic calculations/modeling;

b. Software for radiation transport calculations/modeling;

c. Software for hydrodynamic calculations/modeling.

E. ''TECHNOLOGY''

0E001 "Technology," according to the Nuclear Technology Note, for the "development," "production," or "use" of items described in 0A002, or 0D001.

Heading Note: ''Technology'' for certain items subject to the export licensing authority of the Nuclear Regulatory Commission (see 10 CFR

part 110) is subject to the export licensing authority of the Department of Energy (see 10 CFR part 810).

LICENSE REQUIREMENTS

Reason for Control:

Control(s): ''Technology'' for items described in 0A002 and 0D001 (applies to ''software'' in 0D001 for items described in 0A002 only) is subject to the export licensing authority of the U.S. Department of State, Directorate of Defense Trade Controls (see 22 CFR part 121).

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

List of Items Controlled

Related Controls: N/A

Related Definitions: N/A

Items: The List of Items Controlled is contained in the ECCN heading.

0E018 "Technology" for the "development", "production", or "use" of items controlled by 0A018.

LICENSE REQUIREMENTS

Reason for Control: NS, UN, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 1.
UN applies to entire entry	See § 746.1(b) for UN controls.
AT applies to entire entry	AT Column 1.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: Yes.

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading.

Note: This ECCN no longer controls ''technology'' for items formerly controlled by 0A018.a. See ECCN 0A617.y.1 and.y.1.a for items formerly controlled by 0A018.a and see the ''technology'' controls for those items in ECCN 0E617.y.

0E521 Any technology subject to the EAR that is not listed elsewhere in the CCL, but which is controlled for export because it provides at least a significant military or intelligence advantage to the United States or for foreign policy reasons.

0E521 technology is subject to RS1 controls with no license exception eligibility other than License Exception GOV for U.S. Government personnel and agencies under § 740.11(b)(2)(ii) of the EAR, or an item-specific license exception identified in Supplement No. 5 to part 774 particular to an item covered under ECCN 0E521. The list of technologies determined to be classified under ECCN 0E521 controls is published in Supplement No. 5 to part 774. The license requirements and licensing policy relating to ECCN 0E521 are set forth in § 742.6(a)(7) of the EAR.

0E604 "Technology" "required" for the "development," "production," operation, installation, maintenance, repair, overhaul, or refurbishing of commodities controlled by ECCN 0A604 or 0B604, or "software" controlled by ECCN 0D604 (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, RS, AT, UN

Control(s)	Country chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 1
RS applies to entire entry	RS Column 1
AT applies to entire entry	AT Column 1
UN applies to entire entry	See § 746.1(b) for UN controls

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

SPECIAL CONDITIONS FOR STA

STA: Paragraph (c)(2) of License Exception STA (§ 740.20(c)(2) of the EAR) may not be used for any item in this ECCN 0E604.

LIST OF ITEMS CONTROLLED

Related Controls: Technical data directly related to articles enumerated in USML Category IV are controlled under USML Category IV(i).

Related Definitions: N/A

Items: a. ''Technology'' ''required'' for the ''development,'' ''production,'' operation, installation, maintenance, repair, overhaul, or refurbishing of commodities controlled by ECCN 0A604 or 0B604, or ''software'' controlled by ECCN 0D604.

b. [Reserved]

0E606 "Technology" "required" for the "development," "production," operation, installation, maintenance, repair, overhaul, or refurbishing of ground vehicles and related commodities in 0A606, 0B606, 0C606, or software in 0D606 (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, RS, AT, UN

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry, except 0E606.y.	NS Column 1
RS applies to entire entry, except 0E606.y.	RS Column 1
AT applies to entire entry	AT Column 1
UN applies to entire entry, except 0E606.y.	See § 746.1(b) for UN controls

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
CIV: N/A
TSR: N/A
SPECIAL CONDITIONS FOR STA
STA: Paragraph (c)(2) of License Exception STA (§740.20(c)(2) of the EAR) may not be used for any technology in 0D606.
LIST OF ITEMS CONTROLLED
Related Controls: Technical data directly related to articles enumerated in USML Category VII are subject to the controls of USML paragraph VII(h).
Related Definitions: N/A
Items: a. ''Technology'' ''required'' for the ''development,'' ''production,'' operation, installation, maintenance, repair, overhaul, or refurbishing of commodities enumerated or otherwise described in ECCN 0A606 (except for ECCNs 0A606.b or 0A606.y).
b. through x. [Reserved]
y. Specific ''technology'' ''required'' for the ''development,'' ''production,'' operation, installation, maintenance, repair, overhaul or refurbishing of commodities or software in ECCN 0A606.y or 0D606.y.

0E614 "Technology," as follows (see List of Items Controlled).
LICENSE REQUIREMENTS
Reason for Control: NS, RS, AT, UN

Control(s)	Country chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 1
RS applies to entire entry	RS Column 1
AT applies to entire entry	AT Column 1
UN applies to entire entry	See §746.1(b) for UN controls

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
CIV: N/A
TSR: N/A
SPECIAL CONDITIONS FOR STA
STA: Paragraph (c)(2) of License Exception STA (§740.20(c)(2) of the EAR) may not be used for any technology in 0E614.
LIST OF ITEMS CONTROLLED
Related Controls: ''Technical data'' directly related to articles enumerated in USML Category IX is subject to the control of USML paragraph IX(e).
Related Definitions: N/A
Items: a. ''Technology'' ''required'' for the ''development,'' ''production,'' operation, installation, maintenance, repair, overhaul, or refurbishing of commodities or ''software'' controlled by ECCNs 0A614, 0B614, or 0D614.
b. [Reserved]

0E617 "Technology" "required" for the "development," "production," operation, installation, maintenance, repair, overhaul, or refurbishing of commodities controlled by ECCN 0A617, "equipment controlled by 0B617, or materials controlled by 0C617, or "software" controlled by ECCN 0D617 (see List of Items Controlled).
LICENSE REQUIREMENTS
Reason for Control: NS, RS, AT, UN

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry, except 0E617.y.	NS Column 1
RS applies to entire entry, except 0E617.y.	RS Column 1
AT applies to entire entry	AT Column 1
UN applies to entire entry, except 0E617.y.	See §746.1(b) for UN controls

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
CIV: N/A
TSR: N/A
SPECIAL CONDITIONS FOR STA
STA: Paragraph (c)(2) of License Exception STA (§740.20(c)(2) of the EAR) may not be used for any technology in 0E617.
LIST OF ITEMS CONTROLLED
Related Controls: Technical data directly related to articles controlled by USML Category XIII are subject to the control of USML paragraph XIII(*l*).
Related Definitions: N/A
Items: a. ''Technology'' (other than ''technology'' controlled by paragraph .y of this entry) ''required'' for the ''development,'' ''production,'' operation, installation, maintenance, repair, overhaul, or refurbishing of commodities or ''software'' controlled by ECCN 0A617 (except 0A617.y), 0B617, 0C617, or 0D617 (except 0D617.y).
b. through x. [Reserved].
y. Specific ''technology'' ''required'' for the ''production,'' ''development,'' operation, installation, maintenance, repair, overhaul, or refurbishing of commodities controlled by ECCN 0A617.y or ''software'' controlled by 0D617.y.

0E918 "Technology" for the "Development", "Production", or "Use" of Bayonets.
LICENSE REQUIREMENTS
Reason for Control: RS, UN, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
RS applies to entire entry	RS Column 2.
UN applies to entire entry	See §746.1(b) for UN controls.
AT applies to entire entry	AT Column 1.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
CIV: N/A
TSR: N/A
LIST OF ITEMS CONTROLLED
Related Controls: N/A
Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading.

0E982 "Technology" exclusively for the "development" or "production" of equipment controlled by 0A982 or 0A985.

LICENSE REQUIREMENTS

Reason for Control: CC

Control(s): CC applies to ''technology'' for items controlled by 0A982 or 0A985. A license is required for ALL destinations, except Canada, regardless of end-use. Accordingly, a column specific to this control does not appear on the Commerce Country Chart. (See part 742 of the EAR for additional information.)

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading.

0E984 "Technology" for the "development" or "production" of shotguns controlled by 0A984 and buckshot shotgun shells.

LICENSE REQUIREMENTS

Reason for Control: CC, UN

Control(s)	Country Chart (See Supp. No. 1 to part 738)
CC applies to "technology" for shotguns with a barrel length over 18 in. (45.72 cm), and for shotgun shells controlled by ECCN 0A984..	CC Column 1.
UN applies to entire entry	See § 746.1(b) for UN controls.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading

0E987 "Technology" "required" for the "development," or "production" of commodities controlled by 0A987 that incorporate a focal plane array or image intensifier tube.

LICENSE REQUIREMENTS

Reason for Control: RS, AT

Control(s)	Country chart (See supp. No. 1 to part 738)
RS applies to entire entry	RS Column 1.
AT applies to entire entry	AT Column 1.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items:

The list of items controlled is contained in the ECCN heading.

EAR99 Items subject to the EAR that are not elsewhere specified in this CCL Category or in any other category in the CCL are designated by the number EAR99.

CATEGORY 1—SPECIAL MATERIALS AND RELATED EQUIPMENT, CHEMICALS, ''MICROORGANISMS,'' AND ''TOXINS''

Note: The Food and Drug Administration (FDA) and the Drug Enforcement Administration (DEA) may control exports of items subject to the EAR and on the Commerce Control List. BIS provides cross references to these other agency controls for convenience only. Therefore, please consult relevant FDA and DEA regulations for guidance related to the item you wish to export and do not rely solely on the EAR for information about other agency export control requirements. See Supplement No. 3 to part 730 (Other U.S. Government Departments and Agencies with Export Control Responsibilities) for more information.

A. ''END ITEMS'', ''EQUIPMENT'', ''ACCESSORIES'', ''ATTACHMENTS'', ''PARTS'', ''COMPONENTS''AND ''SYSTEMS''

1A001 "Parts" and "components" made from fluorinated compounds, as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 2
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: $5000

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: (1) Items ''specially designed'' or modified for missiles or for items on the U.S. Munitions List are ''subject to the ITAR'' (see 22 CFR parts 120 through 130, including USML Category XXI).

Related Definitions: N/A

Items: a. Seals, gaskets, sealants or fuel bladders, ''specially designed'' for ''aircraft'' or aerospace use, made from more than 50% by

weight of any of the materials controlled by 1C009.b or 1C009.c;

b. [Reserved]

1A002 "Composite" structures or laminates, having any of the following (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, NP, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 2.
NP applies to 1A002.b.1 in the form of tubes with an inside diameter between 75 mm and 400 mm.	NP Column 1.
1 AT applies to entire entry ...	AT Column 1.

REPORTING REQUIREMENTS See §743.1 of the EAR for reporting requirements for exports under License Exceptions, and Validated End-User authorizations

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: $1,500; N/A for NP; N/A for "composite" structures or laminates controlled by 1A002.a, having an organic "matrix" and made from materials controlled by 1C010.c or 1C010.d.

GBS: N/A

CIV: N/A

SPECIAL CONDITIONS FOR STA

STA: License Exception STA may not be used to ship any item in this entry to any of the destinations listed in Country Group A:6 (See Supplement No. 1 to part 740 of the EAR).

LIST OF ITEMS CONTROLLED

Related Controls: (1) See ECCNs 1E001 ("development" and "production") and 1E201 ("use") for technology for items controlled by this entry. (2) Also see ECCNs 1A202, 1C010, 1C210, 9A010, and 9A110. (3) "Composite" structures "specially designed" for missile applications (including "specially designed" subsystems, "parts," and "components") are controlled by ECCN 9A110. (4) "Composite" structures or laminates "specially designed" or prepared for use in separating uranium isotopes are subject to the export licensing authority of the Nuclear Regulatory Commission (see 10 CFR part 110).

Related Definitions: N/A

Items: a. Consisting of an organic "matrix" and materials controlled by 1C010.c 1C010.d, or 1C010.e *or*

b. Consisting of a metal or carbon "matrix", and any of the following:

b.1. Carbon "fibrous or filamentary materials" having all of the following:

b.1.a. A "specific modulus" exceeding 10.15 $\times 10^6$ m; *and*

b.1.b. A "specific tensile strength" exceeding 17.7 $\times 10^4$ m; *or*

b.2. Materials controlled by 1C010.c.

Note 1: 1A002 does not control "composite" structures or laminates made from epoxy resin impregnated carbon "fibrous or filamentary materials," for the repair of "civil aircraft" structures or laminates, having all of the following:

a. An area not exceeding 1 m²;

b. A length not exceeding 2.5 m; and

c. A width exceeding 15 mm.

Note 2: 1A002 does not control semi-finished items, "specially designed" for purely civilian applications as follows:

a. Sporting goods;

b. Automotive industry;

c. Machine tool industry;

d. Medical applications.

Note 3: 1A002.b.1 does not apply to semi-finished items containing a maximum of two dimensions of interwoven filaments and "specially designed" for applications as follows:

a. Metal heat-treatment furnaces for tempering metals;

b. Silicon boule production equipment.

Note 4: 1A002 does not apply to finished items "specially designed" for a specific application.

1A003 Manufactures of non-"fusible" aromatic polyimides in film, sheet, tape or ribbon form having any of the following (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 2
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: $200

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: This entry does not control manufactures when coated or laminated with copper and designed for the production of electronic printed circuit boards. For "fusible" aromatic polyimides in any form, see 1C008.a.3.

Related Definitions: N/A

Items: a. A thickness exceeding 0.254 mm; or

b. Coated or laminated with carbon, graphite, metals or magnetic substances.

1A004 Protective and detection equipment and "components," not "specially designed" for military use, as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, CB, RS, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 2.

Control(s)	Country Chart (See Supp. No. 1 to part 738)
CB applies to chemical detection systems and. dedicated detectors therefor, in 1A004.c, that also have the technical characteristics described in 2B351.a.	CB Column 2.
RS apply to 1A004.d	RS Column 2.
AT applies to entire entry	AT Column 1.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: (1) See ECCNs 1A995, 2B351, and 2B352. (2) See ECCN 1D003 for ''software'' ''specially designed'' or modified to enable equipment to perform the functions of equipment controlled under section 1A004.c (Nuclear, biological and chemical (NBC) detection systems). (3) See ECCN 1E002.g for control libraries (parametric technical databases) ''specially designed'' or modified to enable equipment to perform the functions of equipment controlled under 1A004.c (Nuclear, biological and chemical (NBC) detection systems). (4) Chemical and biological protective and detection equipment specifically designed, developed, modified, configured, or adapted for military applications is ''subject to the ITAR'' (see 22 CFR parts 120 through 130, including USML Category XIV(f)), as is commercial equipment that incorporates ''parts'' or ''components'' controlled under that category except for domestic preparedness devices for individual protection that integrate ''components'' and ''parts'' identified in USML Category XIV(f)(4) when such ''parts'' or ''components'' are: (i) Integral to the device; (ii) inseparable from the device; and (iii) incapable of replacement without compromising the effectiveness of the device, in which case the equipment is ''subject to the EAR'' under ECCN 1A004.

Related Definitions: (1) 'Adapted for use in war' means: Any modification or selection (such as altering purity, shelf life, virulence, dissemination characteristics, or resistance to UV radiation) designed to increase the effectiveness in producing casualties in humans or animals, degrading equipment or damaging crops or the environment. (2) 'Riot control agents' are substances which, under the expected conditions of use for riot control purposes, produce rapidly in humans sensory irritation or disabling physical effects which disappear within a short time following termination of exposure. (Tear gases are a subset of 'riot control agents'.)

Items: a. Full face masks, filter canisters and decontamination equipment therefor, designed or modified for defense against any of the following, and ''specially designed'' ''components'' therefor:

Note: 1A004.a includes Powered Air Purifying Respirators (PAPR) that are designed or modified for defense against agents or materials, listed in 1A004.a.

Technical Notes: For the purpose of 1A004.a:

1. Full face masks are also known as gas masks.

2. Filter canisters include filter cartridges.

a.1. 'Biological agents';

a.2. Radioactive materials 'adapted for use in war';

a.3. Chemical warfare (CW) agents; *or*

a.4. 'Riot control agents', as follows:

a.4.a. α-Bromobenzeneacetonitrile, (Bromobenzyl cyanide) (CA) (CAS 5798–79–8);

a.4.b. [(2-chlorophenyl) methylene] propanedinitrile, (o-Chlorobenzylidenemalononitrile) (CS) (CAS 2698–41–1);

a.4.c. 2-Chloro-1-phenylethanone, Phenylacyl chloride (ω-chloroacetophenone) (CN) (CAS 532–27–4);

a.4.d. Dibenz-(b,f)-1,4-oxazephine, (CR) (CAS 257–07–8);

a.4.e. 10-Chloro-5,10-dihydrophenarsazine, (Phenarsazine chloride), (Adamsite), (DM) (CAS 578–94–9);

a.4.f. N-Nonanoylmorpholine, (MPA) (CAS 5299–64–9);

b. Protective suits, gloves and shoes, ''specially designed'' or modified for defense against any of the following:

b.1. 'Biological agents';

b.2. Radioactive materials 'adapted for use in war'; *or*

b.3. Chemical warfare (CW) agents;

c. Detection systems, ''specially designed'' or modified for detection or identification of any of the following, and ''specially designed'' components therefor:

c.1. 'Biological agents';

c.2. Radioactive materials 'adapted for use in war '; *or*

c.3. Chemical warfare (CW) agents;

d. Electronic equipment designed for automatically detecting or identifying the presence of ''explosives'' (as listed in the annex at the end of Category 1) residues and utilizing 'trace detection' techniques (*e.g.*, surface acoustic wave, ion mobility spectrometry, differential mobility spectrometry, mass spectrometry).

Technical Note: 'Trace detection' is defined as the capability to detect less than 1 ppm vapor, or 1 mg solid or liquid.

Note 1: 1A004.d. does not apply to equipment ''specially designed'' for laboratory use.

Note 2: 1A004.d. does not apply to non-contact walk-through security portals.

Note: 1A004 does not control:

a. Personal radiation monitoring dosimeters;

b. Occupational health or safety equipment limited by design or function to protect against hazards specific to residential safety or civil industries, including:

1. Mining;

2. Quarrying;

3. Agriculture;

4. Pharmaceutical;

5. Medical;

6. Veterinary;

7. Environmental;

8. Waste management;

9. Food industry.

TECHNICAL NOTES:

1. 1A004 includes equipment, ''components'' that have been 'identified,' successfully tested to national standards or otherwise proven effective, for the detection of or defense against radioactive materials ''adapted for use in war,'' 'biological agents,' chemical warfare agents, 'simulants' or ''riot control agents,'' even if such equipment or ''components'' are used in civil industries such as mining, quarrying, agriculture, pharmaceuticals, medical, veterinary, environmental, waste management, or the food industry.

2. 'Simulant': A substance or material that is used in place of toxic agent (chemical or biological) in training, research, testing or evaluation.

3. For the purposes of 1A004, 'biological agents' are pathogens or toxins, selected or modified (such as altering purity, shelf life, virulence, dissemination characteristics, or resistance to UV radiation) to produce casualties in humans or animals, degrade equipment or damage crops or the environment.

1A005 Body armor and "specially designed" "components" therefor, as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, UN, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 2.
UN applies to entire entry	See § 746.1(b) for UN controls.
AT applies to entire entry	AT Column 1.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: Yes, except UN

CIV: N/A

License Requirements Notes: 1. Soft body armor not manufactured to military standards or specifications must provide ballistic protection equal to or less than NIJ level III (NIJ 0101.06, July 2008) to be controlled under 1A005.a. 2. For purposes of 1A005.a, military standards and specifications include, at a minimum, specifications for fragmentation protection.

LIST OF ITEMS CONTROLLED

Related Controls: (1) Bulletproof and bullet resistant vests (body armor) providing NIJ Type IV protection or greater are ''subject to the ITAR'' (see 22 CFR 121.1 Category X(a)). (2) Soft body armor and protective garments manufactured to military standards or specifications that provide protection equal to NIJ level III or less are classified under ECCN 1A613.d.1. (3) Hard armor plates providing NIJ level III ballistic protection are classified under ECCN 1A613.d.2. (4) Police helmets and shields are classified under ECCN 0A979. (5) Other personal protective ''equipment'' ''specially designed'' for military applications not controlled by the USML or elsewhere in the CCL is classified under ECCN 1A613.e. (6) For ''fibrous or filamentary materials'' used in the manufacture of body armor, see ECCN 1C010.

Related Definitions: NA

Items: a. Soft body armor not manufactured to military standards or specifications, or to their equivalents, and ''specially designed'' ''components'' therefor.

b. Hard body armor plates that provide ballistic protection less than NIJ level III (NIJ 0101.06, July 2008) or national equivalents.

Notes to ECCN 1A005: 1. This entry does not control body armor when accompanying its user for the user's own personal protection.

2. This entry does not control body armor designed to provide frontal protection only from both fragment and blast from non-military explosive devices.

3. This entry does not apply to body armor designed to provide protection only from knife, spike, needle or blunt trauma.

1A006 Equipment, "specially designed" or modified for the disposal of improvised explosive devices, as follows (see List of Items Controlled), and "specially designed" "components" and "accessories" therefor.

LICENSE REQUIREMENTS

Reason for Control: NS, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 2.
AT applies to entire entry	AT Column 1.

License Requirement Note: 1A006 does not apply to equipment when accompanying its operator.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: Equipment ''specially designed'' for military use for the disposal of improvised explosive devices is ''subject to

the ITAR'' (see 22 CFR parts 120 through 130, including USML Category IV).

Related Definitions: 'Disruptors'—Devices ''specially designed'' for the purpose of preventing the operation of an explosive device by projecting a liquid, solid or frangible projectile.

Items: a. Remotely operated vehicles;

b. 'Disruptors'

1A007 Equipment and devices, "specially designed" to initiate charges and devices containing energetic materials, by electrical means, as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, NP, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 2.
NP applies to 1A007.b, as well as 1A007.a when the detonator firing set meets or exceeds the parameters of 3A229.	NP Column 1.
AT applies to entire entry	AT Column 1.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: High explosives and related equipment ''specially designed'' for military use are ''subject to the ITAR'' (see 22 CFR parts 120 through 130). This entry does not control detonators using only primary explosives, such as lead azide. See also ECCNs 0A604, 3A229, and 3A232. See 1E001 for ''development'' and ''production'' technology controls, and 1E201 for ''use'' technology controls.

Related Definitions: N/A

Items: a. Explosive detonator firing sets designed to drive explosive detonators specified by 1A007.b;

b. Electrically driven explosive detonators as follows:

b.1. Exploding bridge (EB);

b.2. Exploding bridge wire (EBW);

b.3. Slapper;

b.4. Exploding foil initiators (EFI).

Technical Notes

1. The word initiator or igniter is sometimes used in place of the word detonator.

2. For the purpose of 1A007.b the detonators of concern all utilize a small electrical conductor (bridge, bridge wire, or foil) that explosively vaporizes when a fast, high-current electrical pulse is passed through it. In nonslapper types, the exploding conductor starts a chemical detonation in a contacting high explosive material such as PETN (pentaerythritoltetranitrate). In slapper detonators, the explosive vaporization of the electrical conductor drives a flyer or slapper across a gap, and the impact of the slapper on an explosive starts a chemical detonation. The slapper in some designs is driven by magnetic force. The term exploding foil detonator may refer to either an EB or a slapper-type detonator.

1A008 Charges, devices and "components," as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, AT, UN

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 2.
AT applies to entire entry	AT Column 1.
UN applies to entire entry	See §746.1(b) for UN controls.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: $3000 for .a through .c; $6000 for .d.

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: (1) All of the following are ''subject to the ITAR'' (see 22 CFR parts 120 through 130):

a. High explosives and related equipment ''specially designed'' for military use;

b. Explosive devices or charges in this entry that utilize USML controlled energetic materials (See 22 CFR 121.1 Category V), if they have been specifically designed, developed, configured, adapted, or modified for a military application;

c. Shaped charges that have all of the following a uniform shaped conical liner with an included angle of 90 degrees or less, more than 2.0 kg of controlled materials, and a diameter exceeding 4.5 inches;

d. Detonating cord containing greater than 0.1 kg per meter (470 grains per foot) of controlled materials;

e. Cutters and severing tools containing greater than 10 kg of controlled materials;

f. With the exception of cutters and severing tools, devices or charges controlled by this entry where the USML controlled materials can be easily extracted without destroying the device or charge; and

g. Individual USML controlled energetic materials in this entry, even when compounded with other materials, when not incorporated into explosive devices or charges controlled by this entry or 1C992.

(2) See also ECCNs 1C011, 1C018, 1C111, 1C239, and 1C608 for additional controlled energetic materials. See ECCN 1E001 for the ''development'' or ''production'' ''technology'' for the commodities controlled by ECCN 1A008, but not for explosives or commodities that are ''subject to the ITAR'' (see 22 CFR parts 120 through 130).

Related Definitions: N/A

Items: a. 'Shaped charges' having all of the following:

a.1. Net Explosive Quantity (NEQ) greater than 90 g; *and*

a.2. Outer casing diameter equal to or greater than 75 mm;

b. Linear shaped cutting charges having all of the following, and ''specially designed'' ''components'' therefor:

b.1. An explosive load greater than 40 g/m; *and*

b.2. A width of 10 mm or more;

c. Detonating cord with explosive core load greater than 64 g/m;

d. Cutters, other than those specified by 1A008.b, and severing tools, having a NEQ greater than 3.5 kg.

Technical Note: 'Shaped charges' are explosive charges shaped to focus the effects of the explosive blast.

Note: The only charges and devices specified in 1A008 are those containing ''explosives'' (see list of explosives in the Annex at the end of Category 1) and mixtures thereof.

1A101 Devices for reduced observables such as radar reflectivity, ultraviolet/infrared signatures and acoustic signatures, for applications usable in rockets, missiles, or unmanned aerial vehicles capable of achieving a "range" equal to or greater than 300 km or their complete subsystems.

LICENSE REQUIREMENTS

Reason for Control: MT, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
MT applies to entire entry	MT Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: (1) See also *1C101*. (2) For commodities that meet the definition of defense articles under 22 CFR 120.3 of the International Traffic in Arms Regulations (ITAR), describes similar commodities ''subject to the ITAR'' (See 22 CFR parts 120 through 130, including USML Category XIII).

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading.

1A102 Resaturated pyrolized carbon-carbon "parts" and "components" designed for rockets, missiles, or unmanned aerial vehicles capable of achieving a "range" equal to or greater than 300 km. (These items are "subject to the ITAR." See 22 CFR parts 120 through 130.)

1A202 Composite structures, other than those controlled by 1A002, in the form of tubes and having both of the following characteristics (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NP, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NP applies to entire entry	NP Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: (1) See ECCNs 1E201 (''use'') and 1E202 (''development'' and ''production'') for technology for items controlled by this entry. (2) Also see ECCNs 1A002, 1C010, 1C210, 9A010, and 9A110. (3) ''Composite'' structures ''specially designed'' or prepared for use in separating uranium isotopes are subject to the export licensing authority of the Nuclear Regulatory Commission (see 10 CFR part 110).

Related Definitions: N/A

Items: a. An inside diameter of between 75 mm and 400 mm; *and*

b. Made with any of the ''fibrous or filamentary materials'' specified in 1C010.a or .b or 1C210.a or with carbon prepreg materials specified in 1C210.c.

1A225 Platinized catalysts "specially designed" or prepared for promoting the hydrogen isotope exchange reaction between hydrogen and water for the recovery of tritium from heavy water or for the production of heavy water.

LICENSE REQUIREMENTS

Reason for Control: NP, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NP applies to entire entry	NP Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: (1) See ECCNs 1E201 (''use'') and 1E202 (''development'' and ''production'') for technology for items controlled by this entry. (2) Equipment ''specially designed'' or prepared for the production of heavy water is subject to the export licensing authority of the Nuclear Regulatory Commission (see 10 CFR part 110).

Related Definitions: N/A
Items: The list of items controlled is contained in the ECCN heading.

1A226 Specialized packings, which may be used in separating heavy water from ordinary water, having both of the following characteristics (see List of Items Controlled).

LICENSE REQUIREMENTS
Reason for Control: NP, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NP applies to entire entry	NP Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
LVS: N/A
GBS: N/A
CIV: N/A
LIST OF ITEMS CONTROLLED
Related Controls: (1) See ECCNs 1E201 (''use'') and 1E202 (''development'' and ''production'') for technology for items controlled by this entry. (2) Equipment ''specially designed'' or prepared for the production of heavy water is subject to the export licensing authority of the Nuclear Regulatory Commission (see 10 CFR part 110).
Related Definitions: N/A
Items: a. Made of phosphor bronze mesh chemically treated to improve wettability; *and*
b. Designed to be used in vacuum distillation towers.

1A227 High-density (lead glass or other) radiation shielding windows, having all of the following characteristics (see List of Items Controlled), and "specially designed" frames therefor.

LICENSE REQUIREMENTS
Reason for Control: NP, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NP applies to entire entry	NP Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
LVS: N/A
GBS: N/A
CIV: N/A
LIST OF ITEMS CONTROLLED
Related Controls: (1) See ECCNs 1E201 (''use'') and 1E202 (''development'' and ''production'') for technology for items controlled by this entry. (2) Equipment ''specially designed'' or prepared for nuclear reactors and reprocessing facilities is subject to the export licensing authority of the Nuclear Regulatory Commission (see 10 CFR part 110).
Related Definitions: In 1A227.a, the term ''cold area'' means the viewing area of the window exposed to the lowest level of radiation in the design application.
Items: a. A ''cold area'' greater than 0.09 m^2;
b. A density greater than 3 g/cm^3; and
c. A thickness of 100 mm or greater.

1A290 Depleted uranium (any uranium containing less than 0.711% of the isotope U–235) in shipments of more than 1,000 kilograms in the form of shielding contained in X-ray units, radiographic exposure or teletherapy devices, radioactive thermoelectric generators, or packaging for the transportation of radioactive materials.

LICENSE REQUIREMENTS
Reason for Control: NP, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NP applies to entire entry	NP Column 2
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
LVS: N/A
GBS: N/A
CIV: N/A
LIST OF ITEMS CONTROLLED
Related Controls: (1) This entry does not control depleted uranium in fabricated forms for use in munitions. See 22 CFR part 121 for depleted uranium ''subject to the ITAR. (2) Depleted uranium that is not fabricated for use in munitions or fabricated into commodities solely to take advantage of its high density (e.g., aircraft, ship, or other counterweights) or in the forms listed in this entry are subject to the export licensing authority of the Nuclear Regulatory Commission. (See 10 CFR part 110.) (3) ''Natural uranium'' or ''depleted uranium'' or thorium in the form of metal, alloy, chemical compound or concentrate and any other material containing one or more of the foregoing are subject to the export licensing authority of the Nuclear Regulatory Commission (see 10 CFR part 110).
Related Definitions: N/A
Items: The list of items controlled is contained in the ECCN heading

1A607 Military dissemination "equipment" for riot control agents, military detection and protection "equipment" for toxicological agents (including chemical, biological, and riot control agents), and related commodities (see List of Items Controlled).

LICENSE REQUIREMENTS
Reason for Control: NS, RS, AT, UN

Control(s)	Country chart (see Supp. No. 1 to Part 738)
NS applies to entire entry	NS Column 1.
RS applies to entire entry	RS Column 1.
AT applies to entire entry	AT Column 1.
UN applies to entire entry	See §746.1(b) for UN controls.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

Special Conditions for STA

STA: Paragraph (c)(2) of License Exception STA (§740.20(c)(2) of the EAR) may not be used for any item in 1A607.

LIST OF ITEMS CONTROLLED

Related Controls: (1) Vaccines identified in ECCN 1C991 are not controlled by this ECCN. (2) See 22 CFR 121.1 (USML), Category XIV(h), for vaccines that are subject to the ITAR. (3) Protection and detection equipment and related items identified in ECCN 1A004, 1A995, or 2B351 are not controlled by this ECCN. (4) See 22 CFR 121.1 (USML), Category XIV(f), for dissemination, detection and protection equipment that is subject to the ITAR. (5) See ECCN 0A919 for ''military commodities'' located and produced outside the United States that incorporate more than a *de minimis* amount of US-origin ''600 series'' controlled content.

Related Definitions: N/A

Items:

a. through d. [Reserved]

e. ''Equipment'' ''specially designed'' for military use and for the dissemination of any of the riot control agents controlled in ECCN 1C607.a.

f. Protection ''equipment'' (including air conditioning units, protective coatings, and protective clothing):

f.1. Not controlled by USML Category XIV(f); *and*

f.2. ''Specially designed'' for military use and for defense against:

f.2.1. Materials specified by USML Category XIV (a) or (b); *or*

f.2.2. Riot control agents controlled in 1C607.a.

g. Decontamination ''equipment'':

g.1. Not controlled by USML Category XIV(f); *and*

g.2. ''Specially designed'' for military use and for decontamination of objects contaminated with materials controlled by USML Category XIV(a) or (b).

h. ''Equipment'':

h.1. Not controlled by USML Category XIV(f); *and*

h.2. ''Specially designed'' for military use and for the detection or identification of:

h.2.1. Materials specified by USML Category XIV(a) or (b); *or*

h.2.2. Riot control agents controlled by ECCN 1C607.a.

i. [Reserved]

j. ''Equipment'' ''specially designed'' to:

j.1. Interface with a detector, shelter, vehicle, vessel, or aircraft controlled by the USML or a ''600 series'' ECCN; *and*

j.2. Collect and process samples of articles controlled in USML Category XIV(a) or (b).

k. Medical countermeasures that are ''specially designed'' for military use (including pre- and post-treatments, antidotes, and medical diagnostics) and ''specially designed'' to counter chemical agents controlled by the USML Category XIV(a).

Note: Examples of ''equipment'' controlled by this entry are barrier and non-barrier creams and filled autoinjectors (e.g., combopens where one injector contains 2–PAM and the other atropine) if ''specially designed'' to counter such agents.

l. through w. [Reserved]

x. ''Parts,'' ''components,'' ''accessories,'' and ''attachments'' that are ''specially designed'' for a commodity controlled by ECCN 1A607.e, .f, .g, .h, or .j or for a defense article controlled by USML Category XIV(f) and that are not enumerated or otherwise described elsewhere in the USML.

1A613 Armored and protective "equipment" and related commodities, as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, RS, AT, UN

Control(s)	Country chart (See Supp. No. 1 to part 738)
NS applies to entire entry except 1A613.y.	NS Column 1
RS applies to entire entry except 1A613.y.	RS Column 1
AT applies to entire entry	AT Column 1
UN applies to entire entry, except 1A613.y.	See §746.1(b) for UN controls

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: $1500

GBS: N/A

CIV: N/A

SPECIAL CONDITIONS FOR STA

STA: (1) Paragraph (c)(2) of License Exception STA (§740.20(c)(2) of the EAR) may not be used for any item in 1A613.

LIST OF ITEMS CONTROLLED

Related Controls: (1) Defense articles, such as materials made from classified information, that are controlled by USML Category X or XIII of the ITAR, and technical data (including software) directly related thereto, are ''subject to the ITAR''. (2) See ECCN 0A919 for foreign-made ''military commodities'' that incorporate more than a *de minimis* amount of US-origin ''600 series'' controlled content. (3) See ECCN

9A610.g for anti-gravity suits (''G-suits'') and pressure suits capable of operating at altitudes higher than 55,000 feet above sea level.

Related Definitions: References to ''NIJ Type'' protection are to the National Institute of Justice Classification guide at NIJ Standard 0101.06, Ballistic Resistance of Body Armor, and NIJ Standard 0108.01, Ballistic Resistant Protective Materials.

Items: a. Metallic or non-metallic armored plate ''specially designed'' for military use and not controlled by the USML.

Note to paragraph a: For controls on body armor plates, see ECCN 1A613.d.2 and USML Category X(a)(1).

b. Shelters ''specially designed'' to:

b.1. Provide ballistic protection for military systems, or

b.2. Protect against nuclear, biological, or chemical contamination.

c. Military helmets (other than helmets controlled under 1A613.y.1) providing less than NIJ Type IV protection and ''specially designed'' helmet shells, liners, or comfort pads therefor.

Note 1: See ECCN 0A979 for controls on police helmets.

Note 2: See USML Category X(a)(5) and (a)(6) for controls on other military helmets.

d. Body armor and protective garments, as follows:

d.1. Soft body armor and protective garments manufactured to military standards or specifications, or to their equivalents, that provide ballistic protection equal to or less than NIJ level III (NIJ 0101.06, July 2008); or

Note: For 1A613.d.1, military standards or specifications include, at a minimum, specifications for fragmentation protection.

d.2. Hard body armor plates that provide ballistic protection equal to NIJ level III (NIJ 0101.06, July 2008) or national equivalents.

Note: See ECCN 1A005 for controls on soft body armor not manufactured to military standards or specifications and hard body armor plates providing less than NIJ level III protection. For body armor providing NIJ Type IV protection or greater, see USML Category X(a)(1).

e. Atmospheric diving suits ''specially designed'' for rescue operations for submarines controlled by the USML or the CCL.

f. Other personal protective ''equipment'' ''specially designed'' for military applications not controlled by the USML, not elsewhere controlled on the CCL.

g. to w. [Reserved]

x. ''Parts,'' ''components,'' ''accessories,'' and ''attachments'' that are ''specially designed'' for a commodity enumerated or otherwise described in ECCN 1A613 (except for 1A613.y) or a defense article enumerated or otherwise described in USML Category X, and not elsewhere specified on the USML or in 3A611.y.

y. Other commodities as follows:

y.1 Conventional military steel helmets.

N.B. to paragraph y.1: For other military helmet ''components'' or ''accessories,'' see the relevant ECCN in the CCL or USML Entry.

y.2 [Reserved]

1A984 Chemical agents, including tear gas formulation containing 1 percent or less of orthochlorobenzalmalononitrile (CS), or 1 percent or less of chloroacetophenone (CN), except in individual containers with a net weight of 20 grams or less; liquid pepper except when packaged in individual containers with a net weight of 3 ounces (85.05 grams) or less; smoke bombs; non-irritant smoke flares, canisters, grenades and charges; and other pyrotechnic articles (excluding shotgun shells) having dual military and commercial use, and "parts" and "components" "specially designed" therefor, n.e.s.

LICENSE REQUIREMENTS

Reason for Control: CC

Control(s)	Country Chart (See Supp. No. 1 to part 738)
CC applies to entire entry	CC Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading.

1A985 Fingerprinting powders, dyes, and inks.

LICENSE REQUIREMENTS

Reason for Control: CC

Control(s)	Country Chart (See Supp. No. 1 to part 738)
CC applies to entire entry	CC Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: See 3A981.

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading.

1A995 Protective and detection equipment not "specially designed" for military use

and not controlled by ECCN 1A004 or ECCN 2B351, as follows (see List of Items Controlled), and "parts" and "components" not "specially designed" for military use and not controlled by ECCN 1A004 or ECCN 2B351 therefor.

LICENSE REQUIREMENTS

Reason for Control: AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related controls: See ECCNs 1A004, 2B351, and 2B352.

Related Definitions: N/A

Items: a. Personal radiation monitoring dosimeters;

b. Equipment limited by design or function to protect against hazards specific to civil industries, such as mining, quarrying, agriculture, pharmaceuticals, medical, veterinary, environmental, waste management, or to the food industry.

Note: This entry (1A995) does not control items for protection against chemical or biological agents that are consumer goods, packaged for retail sale or personal use, or medical products, such as latex exam gloves, latex surgical gloves, liquid disinfectant soap, disposable surgical drapes, surgical gowns, surgical foot covers, and surgical masks. Such items are classified as EAR99.

1A999 Specific Processing Equipment, n.e.s., as Follows (See List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: AT

Control(s):

Country Chart. AT applies to entire entry. A license is required for items controlled by this entry to North Korea for anti-terrorism reasons. The Commerce Country Chart is not designed to determine AT licensing requirements for this entry. See §742.19 of the EAR for additional information.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: a. Radiation detection, monitoring and measurement equipment, n.e.s.;

b. Radiographic detection equipment such as x-ray converters, and storage phosphor image plates.

B. ''TEST'', ''INSPECTION'' AND ''PRODUCTION EQUIPMENT''

1B001 Equipment for the production or inspection of "composite" structures or laminates controlled by 1A002 or "fibrous or filamentary materials" controlled by 1C010, as follows (see List of Items Controlled), and "specially designed" "components" and "accessories" therefor.

LICENSE REQUIREMENTS

Reason for Control: NS, MT, NP, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 2.
MT applies to entire entry, except 1B001.d.4, e and f.	MT Column 1.
NOTE: *MT applies to equipment in 1B001.d that meet or exceed the parameters of 1B101.*	
NP applies to filament winding machines described in 1B001.a that are capable of winding cylindrical rotors having a diameter between 75 mm (3 in) and 400 mm (16 in) and lengths of 600 mm (24 in) or greater; AND coordinating and programming controls and precision mandrels for these filament winding machines.	NP Column 1.
AT applies to entire entry	AT Column 1.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A for MT and for 1B001.a; $5,000 for all other items

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: (1) See ECCN 1D001 for software for items controlled by this entry and see ECCNs 1E001 (''development'' and ''production'') and 1E101 (''use'') for technology for items controlled by this entry. (2) Also see ECCNs 1B101 and 1B201.

Related Definitions: N/A

Items: a. Filament winding machines, of which the motions for positioning, wrapping and winding fibers are coordinated and programmed in three or more 'primary servo positioning' axes, ''specially designed'' for the manufacture of ''composite'' structures or laminates, from ''fibrous or filamentary materials'';

b. 'Tape laying machines', of which the motions for positioning and laying tape are coordinated and programmed in five or more 'primary servo positioning' axes, ''specially designed'' for the manufacture of ''composite'' airframe or missile structures;

Technical Note: For the purposes of 1B001.b, 'tape-laying machines' have the ability to lay one or more 'filament bands' limited to widths greater than 25 mm and less than or equal to 305 mm, and to cut and restart individual 'filament band' courses during the laying process.

c. Multidirectional, multidimensional weaving machines or interlacing machines, including adapters and modification kits, ''specially designed'' or modified for weaving, interlacing or braiding fibers for ''composite'' structures;

Technical Note: For the purposes of 1B001.c the technique of interlacing includes knitting.

d. Equipment ''specially designed'' or adapted for the production of reinforcement fibers, as follows:

d.1. Equipment for converting polymeric fibers (such as polyacrylonitrile, rayon, pitch or polycarbosilane) into carbon fibers or silicon carbide fibers, including special equipment to strain the fiber during heating;

d.2. Equipment for the chemical vapor deposition of elements or compounds, on heated filamentary substrates, to manufacture silicon carbide fibers;

d.3. Equipment for the wet-spinning of refractory ceramics (such as aluminum oxide);

d.4. Equipment for converting aluminum containing precursor fibers into alumina fibers by heat treatment;

e. Equipment for producing prepregs controlled by 1C010.e by the hot melt method;

f. Non-destructive inspection equipment ''specially designed'' for ''composite'' materials, as follows:

f.1. X-ray tomography systems for three dimensional defect inspection;

f.2. Numerically controlled ultrasonic testing machines of which the motions for positioning transmitters or receivers are simultaneously coordinated and programmed in four or more axes to follow the three dimensional contours of the ''part'' or ''component'' under inspection;

g. Tow-placement machines, of which the motions for positioning and laying tows are coordinated and programmed in two or more 'primary servo positioning' axes, ''specially designed'' for the manufacture of ''composite'' airframe or missile structures.

Technical Note to 1B001.g: For the purposes of 1B001.g, 'tow-placement machines' have the ability to place one or more 'filament bands' having widths less than or equal to 25 mm, and to cut and restart individual 'filament band' courses during the placement process.

Technical Notes for 1B001: 1. For the purpose of 1B001, 'primary servo positioning' axes control, under computer program direction, the position of the end effector (i.e., head) in space relative to the work piece at the correct orientation and direction to achieve the desired process.

2. For the purposes of 1B001, a 'filament band' is a single continuous width of fully or partially resin-impregnated tape, tow or fiber.

1B002 Equipment for Producing Metal Alloys, Metal Alloy Powder or Alloyed Materials, "Specially Designed" to Avoid Contamination and "Specially Designed" for Use in One of the Processes Specified in 1C002.c.2.

LICENSE REQUIREMENTS

Reason for Control: NS, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 2
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: $5000

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading

1B003 Tools, dies, molds or fixtures, for "superplastic forming" or "diffusion bonding" titanium, aluminum or their alloys, "specially designed" for the manufacture of any of the following (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 2
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: $5000

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: For ''specially designed''''production equipment''of systems, sub-systems, and ''parts'' and ''components'' controlled by 9A005 to 9A009, 9A011, 9A101, 9A105 to 9A109, 9A111, and 9A116 to 9A120 usable in ''missiles,'' see 9B115.

Related Definitions: N/A

Items: a. Airframe or aerospace structures;

b. ''Aircraft'' or aerospace engines; *or*

c. ''Specially designed'' ''parts'' and ''components'' for structures specified by 1B003.a or for engines specified by 1B003.b.

1B018 Items on the Wassenaar Arrangement Munitions List (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, MT, RS, AT, UN

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 1.
MT applies to equipment for the "production" of rocket propellants.	MT Column 1.
RS applies to 1B018.a	RS Column 2.
AT applies to entire entry	AT Column 1.
UN applies to entire entry	See § 746.1(b) for UN controls.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: $3000 for 1B018.a for countries WITHOUT an ''X'' in RS Column 2 on the Country Chart contained in Supplement No. 1 to part 738 of the EAR;

$5000 for 1B018.b.

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: See ECCN 1B608.a, .b, and .x for items that, immediately prior to July 1, 2014, were classified under 1B018.a.

Related Definitions: N/A

Items:

a. [Reserved]

b. [Reserved]

1B101 Equipment, other than that controlled by 1B001, for the "production" of structural composites, fibers, prepregs or preforms, usable for rockets, missiles, or unmanned aerial vehicles capable of achieving a "range" equal to or greater than 300 km and their subsystems, as follows (see List of Items Controlled); and "specially designed" "parts," "components" and "accessories" therefor.

LICENSE REQUIREMENTS

*Reason for Control:*MT, NP, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
MT applies to entire entry	MT Column 1.
NP applies to filament winding machines described in 1B101.a that are capable of winding cylindrical rotors having a diameter between 75 mm (3 in.) and 400 mm (16 in.) and lengths of 600 mm (24 in.) or greater AND to coordinating and programming controls and precision mandrels for these filament winding machines.	NP Column 1.
AT applies to entire entry	AT Column 1.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: See ECCN 1D101 for software for items controlled by this entry and see ECCNs 1E001 (''development'' and ''production'') and 1E101 (''use'') for technology for items controlled by this entry. Also see 1B201.

Related Definitions: Examples of ''parts,'' ''components'' and accessories for the machines controlled by this entry are molds, mandrels, dies, fixtures and tooling for the preform pressing, curing, casting, sintering or bonding of composite structures, laminates and manufactures thereof.

Items: a. Filament winding machines or 'fiber/tow-placement machines,' of which the motions for positioning, wrapping and winding fibers can be coordinated and programmed in three or more axes, designed to fabricate composite structures or laminates from fibrous or filamentary materials, and coordinating and programming controls;

b. 'Tape-laying machines' of which the motions for positioning and laying tape can be coordinated and programmed in two or more axes, designed for the manufacture of composite airframe and missile structures;

Technical Notes for paragraphs a and b: For the purposes of 1B101.a. and 1B101.b., the following definitions apply:

1. 'Fiber/tow-placement machines' and 'tape-laying machines' are machines that perform similar processes that use computer-guided heads to lay one or several 'filament bands' onto a mold to create a part or a structure. These machines have the ability to cut and restart individual 'filament band' courses during the laying process.

2. A 'filament band' is a single continuous width of fully or partially resin-impregnated tape, tow, or fiber. Fully or partially resin-impregnated 'filament bands' include those coated with dry powder that tacks upon heating.

3. 'Fiber/tow-placement machines' have the ability to place one or more 'filament bands' having widths less than or equal to 25.4 mm. This refers to the minimum width of material the machine can place, regardless of the upper capability of the machine.

4. 'Tape-laying machines' have the ability to place one or more 'filament bands' having widths less than or equal to 304.8 mm, but cannot place 'filament bands' with a width equal to or less than 25.4 mm. This refers to the minimum width of material the machine can place, regardless of the upper capability of the machine.

c. Equipment designed or modified for the ''production'' of ''fibrous or filamentary materials'' as follows:

c.1. Equipment for converting polymeric fibers (such as polyacrylonitrile, rayon or polycarbosilane) including special provision to strain the fiber during heating;

c.2. Equipment for the vapor deposition of elements or compounds on heated filament substrates; and

c.3. Equipment for the wet-spinning of refractory ceramics (such as aluminum oxide);

d. Equipment designed or modified for special fiber surface treatment or for producing prepregs and preforms controlled by 9A110.

Note: Equipment covered in 1B101.d includes but is not limited to, rollers, tension stretchers, coating equipment, cutting equipment and clicker dies.

1B102 Metal powder "production equipment," other than that specified in 1B002, and "parts" and "components" as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: MT, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
MT applies to entire entry	MT Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: 1. See also 1B115.b.

Related Definitions: N/A

Items: a. Metal powder ''production equipment'' usable for the ''production'', in a controlled environment, of spherical, spheroidal or atomized materials specified in 1C011.a., 1C011.b., 1C111.a.1., 1C111.a.2., or controlled for MT reasons in Category V of the USML.

b. ''Specially designed'' ''parts'' and ''components'' for ''production equipment'' specified in 1B002 or 1B102.a.

Note: 1B102 includes:

a. Plasma generators (high frequency arc-jet) usable for obtaining sputtered or spherical metallic powders with organization of the process in an argon-water environment;

b. Electroburst equipment usable for obtaining sputtered or spherical metallic powders with organization of the process in an argon-water environment;

c. Equipment usable for the ''production'' of spherical aluminum powders by powdering a melt in an inert medium (e.g., nitrogen).

1B115 "Equipment, other than that controlled in 1B002 or 1B102, for the "production" of propellant or propellant constituents (see List of Items Controlled), and "specially designed" "parts" and "components" therefor.

LICENSE REQUIREMENTS

Reason for Control: MT, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
MT applies to entire entry	MT Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: For the control of batch mixers, continuous mixers and fluid energy mills, see 1B117, 1B118 and 1B119.

Related Definitions: N/A

Items: a. ''Production equipment'' for the ''production'', handling or acceptance testing of liquid propellants or propellant constituents controlled by 1C011.a, 1C011.b, 1C111 or on the U.S. Munitions List;

b. ''Production equipment,'' for the production, handling, mixing, curing, casting, pressing, machining, extruding or acceptance testing of solid propellants or propellant constituents described in 1C011.a, 1C011.b or 1C111, or on the U.S. Munitions List.

Note: 1B115.b does not control batch mixers, continuous mixers or fluid energy mills. For the control of batch mixers, continuous mixers and fluid energy mills see 1B117, 1B118, and 1B119.

Note 1: [Reserved]

Note 2: 1B115 does not control equipment for the ''production,'' handling and acceptance testing of boron carbide.

1B116 "Specially Designed" nozzles for producing pyrolitically derived materials formed on a mold, mandrel or other substrate from precursor gases which decompose in the 1,573 K (1,300 °C) to 3,173 K (2,900 °C) temperature range at pressures of 130 Pa to 20 kPa.

LICENSE REQUIREMENTS

Reason for Control: MT, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
MT applies to entire entry	MT Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading

1B117 Batch mixers with provision for mixing under vacuum in the range from zero to 13.326 kPa and with temperature control capability of the mixing chamber and having all of the following characteristics (see List of Items Controlled), and "specially designed" "parts" and "components" therefor.

LICENSE REQUIREMENTS
Reason for Control: MT, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
MT applies to entire entry	MT Column 1.
AT applies to entire entry	AT Column 1.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
LVS: N/A
GBS: N/A
CIV: N/A
LIST OF ITEMS CONTROLLED
Related Controls: See 1B115, 1B118, and 1B119.
Related Definitions: N/A
Items: a. A total volumetric capacity of 110 liters (30 gallons) or more; and

b. At least one 'mixing/kneading shaft' mounted off center.

Note to paragraph b: In 1B117.b. the term 'mixing/kneading shaft' does not refer to deagglomerators or knife-spindles.

1B118 Continuous mixers with provision for mixing under vacuum in the range from zero to 13.326 kPa and with temperature control capability of the mixing chamber and having any of the following characteristics (see List of Items Controlled), and "specially designed" "parts" and "components" therefor.

LICENSE REQUIREMENTS
Reason for Control: MT, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
MT applies to entire entry	MT Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
LVS: N/A
GBS: N/A
CIV: N/A
LIST OF ITEMS CONTROLLED
Related Controls: See 1B115, 1B117, and 1B119.
Related Definitions: N/A
Items: a. Two or more mixing/kneading shafts; or

b. A single rotating shaft which oscillates and has kneading teeth/pins on the shaft as well as inside the casing of the mixing chamber.

1B119 Fluid energy mills usable for grinding or milling propellant or propellant constituents specified in 1C011.a, 1C011.b or 1C111, or on the U.S. Munitions List, and "specially designed" "parts" and "components" therefor.

LICENSE REQUIREMENTS
Reason for Control: MT, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
MT applies to entire entry	MT Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
LVS: N/A
GBS: N/A
CIV: N/A
LIST OF ITEMS CONTROLLED
Related Controls: See 1B115, 1B117 and 1B118.
Related Definitions: N/A
Items: The list of items controlled is contained in the ECCN heading.

1B201 Filament winding machines (other than those controlled by ECCN 1B001 or 1B101) and related equipment, as described in this ECCN (see List of Items Controlled).

LICENSE REQUIREMENTS
Reason for Control: NP, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NP applies to entire entry	NP Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
LVS: N/A
GBS: N/A
CIV: N/A
LIST OF ITEMS CONTROLLED
Related Controls: See ECCN 1D201 for software for items controlled by this entry and see ECCNs 1E001 (''development'' and ''production'') and 1E201 (''use'') for technology for items controlled by this entry. Also see ECCN 1E203 for technology for the ''development'' of software controlled by ECCN 1D201.
Related Definitions: N/A
Items: a. Filament winding machines having all of the following characteristics:

a.1. Having motions for positioning, wrapping, and winding fibers coordinated and programmed in two or more axes;

a.2. ''Specially Designed'' to fabricate composite structures or laminates from ''fibrous or filamentary materials''; *and*

a.3. Capable of winding cylindrical tubes with an internal diameter between 75 mm and 650 mm and lengths of 300 mm or greater;

b. Coordinating and programming controls for filament winding machines controlled by 1B201.a;

c. Precision mandrels for filament winding machines controlled by 1B201.a.

1B225 Electrolytic cells for fluorine production with a production capacity greater than 250 g of fluorine per hour.

LICENSE REQUIREMENTS

Reason for Control: NP, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NP applies to entire entry	NP Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
LVS: N/A
GBS: N/A
CIV: N/A
LIST OF ITEMS CONTROLLED
Related Controls: (1) See ECCNs *1E001* (''development'' and ''production'') and *1E201* (''use'') for technology for items controlled by this entry. (2) See ECCN 1B999 for specific processing equipment, n.e.s.
Related Definitions: N/A
Items: The list of items controlled is contained in the ECCN heading.

1B226 Electromagnetic isotope separators designed for, or equipped with, single or multiple ion sources capable of providing a total ion beam current of 50 mA or greater.
LICENSE REQUIREMENTS
Reason for Control: NP, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NP applies to entire entry	NP Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
LVS: N/A
GBS: N/A
CIV: N/A
LIST OF ITEMS CONTROLLED
Related Controls: (1) Electromagnetic isotope separators ''specially designed'' or prepared for use in separating uranium isotopes are subject to the export licensing authority of the Nuclear Regulatory Commission (see 10 CFR part 110). (2) See ECCNs 1E001 (''development'' and ''production'') and 1E201 (''use'') for technology for items controlled by this entry.
Related Definitions: N/A
ECCN Controls: This entry includes separators capable of enriching stable isotopes and separators with the ion sources and collectors both in the magnetic field and those configurations in which they are external to the field.
Items: The list of items controlled is contained in the ECCN heading.

1B228 Hydrogen cryogenic distillation columns having all of the characteristics described in this ECCN (see List of Items Controlled).
LICENSE REQUIREMENTS
Reason for Control: NP, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NP applies to entire entry	NP Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
LVS: N/A
GBS: N/A
CIV: N/A
LIST OF ITEMS CONTROLLED
Related Controls: (1) Equipment ''specially designed'' or prepared for the production of heavy water is subject to the export licensing authority of the Nuclear Regulatory Commission (see 10 CFR part 110). (2) See ECCNs 1E001 (''development'' and ''production'') and 1E201 (''use'') for technology for items controlled by this entry.
Related Definitions: (1) The term ''fine grain stainless steels,'' for purposes of this ECCN, means fine grain austenitic stainless steels with an ASTM (or equivalent standard) grain size number of 5 or greater. (2) The term ''effective length,'' for purposes of this ECCN, means the active height of packing material in a packed-type column, or the active height of internal contactor plates in a plate-type column.
Items: a. Designed to operate with internal temperatures of 35 K (−238 °C) or less;
b. Designed to operate at an internal pressure of 0.5 to 5 MPa (5 to 50 atmospheres);
c. Constructed of ''fine-grain stainless steels'' of the 300 series with low sulphur content or equivalent cryogenic and H_2-compatible materials; *and*
d. With internal diameters of 30 cm or greater and ''effective lengths'' of 4 m or greater.

1B229 Water-hydrogen sulphide exchange tray columns and "internal contactors", as follows (see List of Items Controlled).
LICENSE REQUIREMENTS
Reason for Control: NP, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NP applies to entire entry	NP Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
LVS: N/A
GBS: N/A
CIV: N/A
LIST OF ITEMS CONTROLLED
Related Controls: (1) Equipment ''specially designed'' or prepared for the production of heavy water is subject to the export licensing authority of the Nuclear Regulatory

Commission (see 10 CFR part 110). (2) See ECCNs 1E001 (''development'' and ''production'') and 1E201 (''use'') for technology for items controlled by this entry.

Related Definitions: The ''internal contactors'' controlled by 1B229.b are segmented trays that have an effective assembled diameter of 1.8 m (6 ft.) or greater, are designed to facilitate countercurrent contacting, and are constructed of stainless steels with a carbon content of 0.03% or less. These may be sieve trays, valve trays, bubble cap trays, or turbogrid trays.

Items: a. Water-hydrogen sulphide exchange tray columns, having all of the following characteristics:

a.1. Can operate at pressures of 2 MPa or greater;

a.2. Constructed of carbon steel having an austenitic ASTM (or equivalent standard) grain size number of 5 or greater; *and*

a.3. With a diameter of 1.8 m (6 ft.) or greater;

b. ''Internal contactors'' for the water-hydrogen sulphide exchange tray columns controlled by 1B229.a.

1B230 Pumps capable of circulating solutions of concentrated or dilute potassium amide catalyst in liquid ammonia (KNH_2/NH_3), having all of the following characteristics (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NP, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NP applies to entire entry	NP Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: (1) Equipment ''specially designed'' or prepared for the production of heavy water is subject to the export licensing authority of the Nuclear Regulatory Commission (see 10 CFR part 110). (2) See ECCNs 1E001 (''development'' and ''production'') and 1E201 (''use'') for technology for items controlled by this entry.

Related Definitions: N/A

Items: a. Airtight (i.e., hermetically sealed);

b. A capacity greater than 8.5 m^3/h; *and*

c. Either of the following characteristics:

c.1. For concentrated potassium amide solutions (1% or greater), an operating pressure of 1.5 to 60 MPa (15–600 atmospheres); *or*

c.2. For dilute potassium amide solutions (less than 1%), an operating pressure of 20 to 60 MPa (200–600 atmospheres).

1B231 Tritium facilities or plants, and equipment therefor, as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NP, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NP applies to entire entry	NP Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: (1) Tritium, tritium compounds, and mixtures containing tritium are subject to the export licensing authority of the Nuclear Regulatory Commission (see 10 CFR part 110). (2) See ECCNs 1E001 (''development'' and ''production'') and 1E201 (''use'') for technology for items controlled by this entry.

Related Definitions: N/A

Items: a. Facilities or plant for the production, recovery, extraction, concentration, or handling of tritium;

b. Equipment for tritium facilities or plant, as follows:

b.1. Hydrogen or helium refrigeration units capable of cooling to 23 K (−250 C) or less, with heat removal capacity greater than 150 watts; *or*

b.2. Hydrogen isotope storage and purification systems using metal hydrides as the storage, or purification medium.

1B232 Turboexpanders or turboexpander-compressor sets having both of the following characteristics (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NP, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NP applies to entire entry	NP Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: (1) Equipment ''specially designed'' or prepared for the production of heavy water is subject to the export licensing authority of the Nuclear Regulatory Commission (see 10 CFR part 110). (2) See ECCNs 1E001 (''development'' and ''production'') and 1E201 (''use'') for technology for items controlled by this entry.

Related Definitions: N/A

Items: a. Designed for operation with an outlet temperature of 35 K (−238 °C) or less; *and*

b. Designed for a throughput of hydrogen gas of 1,000 kg/h or greater.

1B233 Lithium isotope separation facilities or plants, and systems and equipment therefor (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NP, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NP applies to 1B233.b	NP Column 1
AT applies to 1B233.b	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: (1) See ECCN 1E001 (''development'' and ''production'') and ECCN 1E201 (''use'') for technology for items described in this entry. (2) Facilities and plants described in 1B233.a are subject to the export licensing authority of the Nuclear Regulatory Commission (see 10 CFR part 110). (3) Certain lithium isotope separation equipment and components for the plasma separation process (PSP) that are described in 1B233.b through .d are also directly applicable to uranium isotope separation and are subject to the export licensing authority of the Nuclear Regulatory Commission (see 10 CFR part 110).

Related Definitions: N/A

Items: a. Facilities or plants for the separation of lithium isotopes;

b. Equipment for the separation of lithium isotopes based on the lithium-mercury amalgam process, as follows:

b.1. Packed liquid-liquid exchange columns ''specially designed'' for lithium amalgams;

b.2. Mercury and/or lithium amalgam pumps;

b.3. Lithium amalgam electrolysis cells;

b.4. Evaporators for concentrated lithium hydroxide solution.

c. Ion exchange systems ''specially designed'' for lithium isotope separation, and ''specially designed'' component parts therefor;

d. Chemical exchange systems (employing crown ethers, cryptands, or lariat ethers) ''specially designed'' for lithium isotope separation, and ''specially designed'' component parts therefor.

1B234 High explosive containment vessels, chambers, containers, and other similar containment devices, not enumerated in ECCN 1B608 or in USML Category IV or V of the ITAR, designed for the testing of high explosives or explosive devices and having both of the characteristics described in this ECCN (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NP, AT

Control(s)	Country chart (see Supp. No. 1 to part 738)
NP applies to entire entry	NP Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: (1) Devices ''specially designed'' for the handling, control, activation, monitoring, detection, protection, discharge, or detonation of the articles enumerated in USML Category IV(a) and (b) are controlled by USML Category IV(c) of the ITAR (see 22 CFR parts 120 through 130). (2) See USML Category V of the ITAR (22 CFR parts 120 through 130) for devices identified therein that are ''specially designed'' to fully contain explosives enumerated in USML Category V. (3) Also see ECCN 1B608 for ''equipment'' ''specially designed'' for the ''development,'' ''production,'' repair, overhaul, or refurbishing of items controlled by ECCN 1C608 or USML Category V and not elsewhere specified on the USML.

Related Definitions: N/A

Items: a. Designed to fully contain an explosion equivalent to 2 kg of TNT or greater; *and*

b. Having design elements or features enabling real time or delayed transfer of diagnostic or measurement information.

1B607 Military test, inspection, and production "equipment" and related commodities "specially designed" for the "development," "production," repair, overhaul, or refurbishing of commodities identified in ECCN 1A607 or 1C607, or defense articles enumerated or otherwise described in USML Category XIV (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, RS, AT, UN

Control(s)	Country chart (see Supp. No. 1 to Part 738)
NS applies to entire entry	NS Column 1.
RS applies to entire entry	RS Column 1.
AT applies to entire entry	AT Column 1.
UN applies to entire entry	See §746.1(b) for UN controls.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: $1500

GBS: N/A

CIV: N/A

SPECIAL CONDITIONS FOR STA

STA: Paragraph (c)(2) of License Exception STA (§740.20(c)(2) of the EAR) may not be used for any item in 1B607.

LIST OF ITEMS CONTROLLED

Related Controls: (1) See ECCN 2B350 for controls on certain incinerators. (2) See ECCN 0A919 for ''military commodities'' located and produced outside the United States that incorporate more than a *de minimis* amount of US-origin ''600 series'' controlled content.

Related Definitions: N/A

Items:

a. ''Equipment'' ''specially designed'' for the destruction of the chemical agents controlled by USML Category XIV(a).

Note to 1B607.a: ECCN 1B607.a includes controls over facilities ''specially designed'' for destruction operations. This paragraph .a does not control incinerators and ''specially designed'' handling facilities or ''specially designed'' waste supply systems therefor.

b. Test facilities and ''equipment'' ''specially designed'' for military certification, qualification, or testing of commodities controlled by ECCN 1A607.e, .f, .g, .h, or .j or by USML Category XIV(f), except for XIV(f)(1).

c. Tooling and ''equipment'' ''specially designed'' for the ''development,'' ''production,'' repair, overhaul, or refurbishing of commodities controlled by ECCN 1A607.e, .f .g, .h, or .j or USML Category XIV(f).

d. through w. [RESERVED]

x. ''Parts,'' ''components,'' ''accessories,'' and ''attachments'' that are ''specially designed'' for a commodity controlled by ECCN 1B607.b or .c, or for a defense article controlled by USML Category XIV(f), and that are not enumerated or otherwise described elsewhere in the USML.

1B608 Test, inspection, and production "equipment" and related commodities "specially designed" for the "development," "production," repair, overhaul, or refurbishing of commodities enumerated in ECCN 1C608 or USML Category V (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, RS, MT, AT, UN

Control(s)	Country chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 1
RS applies to entire entry	RS Column 1
MT applies to equipment ''specially designed'' for MT-controlled commodities in ECCN 1C608 or MT articles in USML Category V.	MT Column 1
AT applies to entire entry	AT Column 1
UN applies to entire entry	See §746.1(b) for UN controls

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: $1500

GBS: N/A

CIV: N/A

SPECIAL CONDITIONS FOR STA

STA: Paragraph (c)(2) of License Exception STA (§740.20(c)(2) of the EAR) may not be used for any item in 1B608.

LIST OF ITEMS CONTROLLED

Related Controls: (1) Defense articles that are enumerated in USML Category V, and technical data (including software) directly related thereto, are ''subject to the ITAR''. (2) See ECCN 0A919 for foreign-made ''military commodities'' that incorporate more than a *de minimis* amount of US-origin ''600 series'' controlled content. (3) See ECCN 1B115 for controls on ''production equipment,'' not controlled by this ECCN 1B608, for propellants or propellant constituents described in ECCN 1C011.a, 1C011.b, or 1C111 or in USML Category V.

Related Definitions: N/A

Items: a. ''Equipment'' ''specially designed'' for the ''development,'' ''production,'' repair, overhaul, or refurbishing of items controlled by ECCN 1C608 or USML Category V and not elsewhere specified on the USML.

NOTE TO PARAGRAPH a: ECCN 1B608.a. includes: (1) Continuous nitrators; (2) dehydration presses;

(3) cutting machines for the sizing of extruded propellants; (4) sweetie barrels (tumblers) 6 feet or more in diameter and having over 500 pounds product capacity; (5) convection current converters for the conversion of materials listed in USML Category V(c)(2); and (6) extrusion presses for the extrusion of small arms, cannon and rocket propellants.

b. Complete installations ''specially designed'' for the ''development,'' ''production,'' repair, overhaul, or refurbishing of items controlled by ECCN 1C608 or USML Category V and not elsewhere specified on the USML.

c. Environmental test facilities ''specially designed'' for the certification, qualification, or testing of items controlled by ECCN 1C608 or USML Category V.

d. through w. [Reserved]

x. ''Parts,'' ''components,'' ''accessories'' and ''attachments'' that are ''specially designed'' for a commodity subject to control in this ECCN or a defense article in USML Category V and not elsewhere specified on the USML.

1B613 Test, inspection, and "production" "equipment" and related commodities "specially designed" for the "development," "production," repair, overhaul, or refurbishing of commodities controlled by ECCN 1A613 or USML Category X, as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, RS, AT, UN

Control(s)	Country chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 1
RS applies to entire entry	RS Column 1
AT applies to entire entry	AT Column 1
UN applies to entire entry	See §746.1(b) for UN controls

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: $1500

GBS: N/A

CIV: N/A

SPECIAL CONDITIONS FOR STA

STA: Paragraph (c)(2) of License Exception STA (§740.20(c)(2) of the EAR) may not be used for any item in 1B613.

LIST OF ITEMS CONTROLLED

Related Controls: See ECCN 0A919 for foreign-made ''military commodities'' that incorporate more than a *de minimis* amount of US-origin ''600 series'' controlled content.

Related Definitions: N/A

Items: a. Test, inspection, and ''production'' ''equipment,'' not controlled by USML Category X(c), that is ''specially designed'' for the ''development,'' ''production,'' repair, overhaul, or refurbishing of commodities controlled by ECCN 1A613 or USML Category X.

b. Plasma pressure compaction (P2C) ''equipment'' ''specially designed'' for the ''production'' of ceramic or composite body armor plates controlled by ECCN 1A613 or USML Category X.

1B999 Specific Processing Equipment, n.e.s., as Follows (See List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: AT, RS.

Control(s)	Country Chart (See Supp. No. 1 to part 738)
AT applies to entire entry	A license is required for items controlled by this entry to North Korea for anti-terrorism reasons. The Commerce Country Chart is not designed to determine AT license requirements for this entry. See §742.19 of the EAR for additional information.
RS applies to entire entry.	A license is required for items controlled by this entry for export or reexport to Iraq or transfer within Iraq for regional stability reasons. The Commerce Country Chart is not designed to determine RS license requirements for this entry. See §§742.6 and 746.3 of the EAR for additional information.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: See also 1B001, 1B101, 1B201, 1B225 and 1D999.

Related Definitions: N/A

Items: a. Electrolytic cells for fluorine production, n.e.s.;

b. Particle accelerators;

c. Industrial process control hardware/systems designed for power industries, n.e.s.;

d. Freon and chilled water cooling systems capable of continuous cooling duties of 100,000 BTU/hr (29.3 kW) or greater;

e. Equipment for the production of structural composites, fibers, prepregs and preforms, n.e.s.

C. ''MATERIALS''

Technical Note: Metals and alloys: Unless provision to the contrary is made, the words ''metals'' and ''alloys'' in 1C001 to 1C011 cover crude and semi-fabricated forms, as follows:

Crude forms: Anodes, balls, bars (including notched bars and wire bars), billets, blocks, blooms, brickets, cakes, cathodes, crystals, cubes, dice, grains, granules, ingots, lumps, pellets, pigs, powder, rondelles, shot, slabs, slugs, sponge, sticks;

Semi-fabricated forms (whether or not coated, plated, drilled or punched):

a. Wrought or worked materials fabricated by rolling, drawing, extruding, forging, impact extruding, pressing, graining, atomizing, and grinding, i.e.: angles, channels, circles, discs, dust, flakes, foils and leaf, forging, plate, powder, pressings and stampings, ribbons, rings, rods (including bare welding rods, wire rods, and rolled wire), sections, shapes, sheets, strip, pipe and tubes (including tube rounds, squares, and hollows), drawn or extruded wire;

b. Cast material produced by casting in sand, die, metal, plaster or other types of molds, including high pressure castings, sintered forms, and forms made by powder metallurgy.

The object of the control should not be defeated by the export of non-listed forms alleged

to be finished products but representing in reality crude forms or semi-fabricated forms.

1C001 Materials "specially designed" for use as absorbers of electromagnetic waves, or intrinsically conductive polymers, as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, MT, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 1
MT applies to entire entry	MT Column 1
AT applies to entire entry	AT Column 1

REPORTING REQUIREMENTS See §743.1 of the EAR for reporting requirements for exports under License Exceptions, and Validated End-User authorizations

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

SPECIAL CONDITIONS FOR STA

STA: License Exception STA may not be used to ship any item in this entry to any of the destinations listed in Country Group A:6 (See Supplement No. 1 to part 740 of the EAR).

LIST OF ITEMS CONTROLLED

Related Controls: See also 1C101.

Related Definitions: N/A

Items: a. Materials for absorbing frequencies exceeding 2×10^8 Hz but less than 3×10^{12} Hz.

Note 1: 1C001.a does not control:

a. Hair type absorbers, constructed of natural or synthetic fibers, with non-magnetic loading to provide absorption;

b. Absorbers having no magnetic loss and whose incident surface is non-planar in shape, including pyramids, cones, wedges and convoluted surfaces;

c. Planar absorbers, having all of the following:

1. Made from any of the following:

a. Plastic foam materials (flexible or non-flexible) with carbon-loading, or organic materials, including binders, providing more than 5% echo compared with metal over a bandwidth exceeding ±15% of the center frequency of the incident energy, and not capable of withstanding temperatures exceeding 450 K (177 °C); or

b. Ceramic materials providing more than 20% echo compared with metal over a bandwidth exceeding ±15% of the center frequency of the incident energy, and not capable of withstanding temperatures exceeding 800 K (527 °C);

Technical Note: Absorption test samples for 1C001.a. Note 1.c.1 should be a square at least 5 wavelengths of the center frequency on a side and positioned in the far field of the radiating element.

2. Tensile strength less than 7×10^6 N/m^2; and

3. Compressive strength less than 14×10^6 N/m^2;

d. Planar absorbers made of sintered ferrite, having all of the following:

1. A specific gravity exceeding 4.4; and

2. A maximum operating temperature of 548 K (275 °C).

Note 2: Nothing in Note 1 releases magnetic materials to provide absorption when contained in paint.

b. Materials for absorbing frequencies exceeding 1.5×10^{14} Hz but less than 3.7×10^{14} Hz and not transparent to visible light;

Note: 1C001.b does not apply to materials, ''specially designed'' or formulated for any of the following applications:

a. ''Laser'' marking of polymers; or

b. ''Laser'' welding of polymers.

c. Intrinsically conductive polymeric materials with a 'bulk electrical conductivity' exceeding 10,000 S/m (Siemens per meter) or a 'sheet (surface) resistivity' of less than 100 ohms/square, based on any of the following polymers:

c.1. Polyaniline;

c.2. Polypyrrole;

c.3. Polythiophene;

c.4. Poly phenylene-vinylene; *or*

c.5. Poly thienylene-vinylene.

Note: 1C001.c does not apply to materials in a liquid form.

Technical Note: 'Bulk electrical conductivity' and 'sheet (surface) resistivity' should be determined using ASTM D–257 or national equivalents.

1C002 Metal alloys, metal alloy powder and alloyed materials, as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, NP, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 2.
NP applies to 1C002.b.3 or b.4 if they exceed the parameters stated in 1C202.	NP Column 1.
AT applies to entire entry	AT Column 1.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: $3,000; N/A for NP

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: (1) See ECCNs 1E001 (''development'' and ''production'') and 1E201 (''use'') for technology for items controlled by this entry. (2) Also see ECCN 1C202. (3) Aluminum alloys and titanium alloys in physical forms and finished products ''specially designed'' or prepared for use in separating uranium isotopes are subject to the export licensing authority of the Nuclear Regulatory Commission (see 10 CFR part 110).

Related Definition: N/A
Items:

Note: 1C002 does not control metal alloys, metal alloy powder and alloyed materials, specially formulated for coating purposes.

Technical Note 1: The metal alloys in 1C002 are those containing a higher percentage by weight of the stated metal than of any other element.

Technical Note 2: 'Stress-rupture life' should be measured in accordance with ASTM standard E–139 or national equivalents.

Technical Note 3: 'Low cycle fatigue life' should be measured in accordance with ASTM Standard E–606 'Recommended Practice for Constant-Amplitude Low-Cycle Fatigue Testing' or national equivalents. Testing should be axial with an average stress ratio equal to 1 and a stress-concentration factor (K_t) equal to 1. The average stress is defined as maximum stress minus minimum stress divided by maximum stress.

a. Aluminides, as follows:

a.1. Nickel aluminides containing a minimum of 15% by weight aluminum, a maximum of 38% by weight aluminum and at least one additional alloying element;

a.2. Titanium aluminides containing 10% by weight or more aluminum and at least one additional alloying element;

b. Metal alloys, as follows, made from the powder or particulate material controlled by 1C002.c:

b.1. Nickel alloys having any of the following:

b.1.a. A 'stress-rupture life' of 10,000 hours or longer at 923 K (650 °C) at a stress of 676 MPa; or

b.1.b. A 'low cycle fatigue life' of 10,000 cycles or more at 823 K (550 °C) at a maximum stress of 1,095 MPa;

b.2. Niobium alloys having any of the following:

b.2.a. A 'stress-rupture life' of 10,000 hours or longer at 1,073 K (800 °C) at a stress of 400 MPa; or

b.2.b. A 'low cycle fatigue life' of 10,000 cycles or more at 973 K (700 °C) at a maximum stress of 700 MPa;

b.3. Titanium alloys having any of the following:

b.3.a. A 'stress-rupture life' of 10,000 hours or longer at 723 K (450 °C) at a stress of 200 MPa; *or*

b.3.b. A 'low cycle fatigue life' of 10,000 cycles or more at 723 K (450 °C) at a maximum stress of 400 MPa;

b.4 Aluminum alloys having any of the following:

b.4.a. A tensile strength of 240 MPa or more at 473 K (200 °C); or

b.4.b. A tensile strength of 415 MPa or more at 298 K (25 °C);

b.5. Magnesium alloys having all the following:

b.5.a. A tensile strength of 345 MPa or more; and

b.5.b. A corrosion rate of less than 1 mm/year in 3% sodium chloride aqueous solution measured in accordance with ASTM standard G–31 or national equivalents;

c. Metal alloy powder or particulate material, having all of the following:

c.1. Made from any of the following composition systems:

TECHNICAL NOTE: X in the following equals one or more alloying elements.

c.1.a. Nickel alloys (Ni-Al-X, Ni-X-Al) qualified for turbine engine ''parts'' or ''components,'' i.e. with less than 3 non-metallic particles (introduced during the manufacturing process) larger than 100 μm in 10^9 alloy particles;

c.1.b. Niobium alloys (Nb-Al-X or Nb-X–Al, Nb-Si-X or Nb-X–Si, Nb-Ti-X or Nb-X–Ti);

c.1.c. Titanium alloys (Ti-Al-X or Ti-X–Al);

c.1.d. Aluminum alloys (Al-Mg-X or Al-X–Mg, Al-Zn-X or Al-X–Zn, Al-Fe-X or Al-X–Fe); or

c.1.e. Magnesium alloys (Mg-Al-X or Mg-X–Al);

c.2. Made in a controlled environment by any of the following processes:

c.2.a. ''Vacuum atomization'';

c.2.b. ''Gas atomization'';

c.2.c. ''Rotary atomization'';

c.2.d. ''Splat quenching'';

c.2.e. ''Melt spinning'' and ''comminution'';

c.2.f. ''Melt extraction'' and ''comminution'';

c.2.g. ''Mechanical alloying''; *or*

c.2.h. ''Plasma atomization''; *and*

c.3. Capable of forming materials controlled by 1C002.a or 1C002.b;

d. Alloyed materials, having all the following:

d.1. Made from any of the composition systems specified by 1C002.c.1;

d.2. In the form of uncomminuted flakes, ribbons or thin rods; *and*

d.3. Produced in a controlled environment by any of the following:

d.3.a. ''Splat quenching'';

d.3.b. ''Melt spinning''; or

d.3.c. ''Melt extraction''.

1C003 Magnetic metals, of all types and of whatever form, having any of the following (see List of Items Controlled).

LICENSE REQUIREMENTS
Reason for Control: NS, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 2
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
LVS: $3000
GBS: N/A
CIV: N/A
LIST OF ITEMS CONTROLLED

Related Controls: N/A
Related Definitions: N/A
Items: a. Initial relative permeability of 120,000 or more and a thickness of 0.05 mm or less;

Technical Note: Measurement of initial relative permeability must be performed on fully annealed materials.

b. Magnetostrictive alloys having any of the following:

b.1. A saturation magnetostriction of more than 5×10^{-4}; or

b.2. A magnetomechanical coupling factor (k) of more than 0.8; or

c. Amorphous or 'nanocrystalline' alloy strips, having all of the following:

c.1. A composition having a minimum of 75% by weight of iron, cobalt or nickel;

c.2. A saturation magnetic induction (B_s) of 1.6 T or more; and

c.3. Any of the following:

c.3.a. A strip thickness of 0.02 mm or less; or

c.3.b. An electrical resistivity of 2×10^{-4}; ohm cm or more.

Technical Note: 'Nanocrystalline' materials in 1C003.c are those materials having a crystal grain size of 50 nm or less, as determined by X-ray diffraction.

1C004 Uranium titanium alloys or tungsten alloys with a "matrix" based on iron, nickel or copper, having all of the following (see List of Items Controlled).

LICENSE REQUIREMENTS
Reason for Control: NS, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 2
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
LVS: $3000
GBS: N/A
CIV: N/A
LIST OF ITEMS CONTROLLED
Related Controls: See also 1C117 and 1C226.
Related Definitions: N/A
Items: a. A density exceeding 17.5 g/cm^3;

b. An elastic limit exceeding 880 MPa;

c. An ultimate tensile strength exceeding 1,270 MPa; *and*

d. An elongation exceeding 8%.

1C005 "Superconductive" "composite" conductors in lengths exceeding 100 m or with a mass exceeding 100 g, as follows (see List of Items Controlled).

LICENSE REQUIREMENTS
Reason for Control: NS, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 2
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
LVS: $1500
GBS: N/A
CIV: N/A
LIST OF ITEMS CONTROLLED
Related Controls: N/A
Related Definitions: N/A
Items: a. ''Superconductive'' ''composite'' conductors containing one or more niobium-titanium 'filaments', having all of the following:

a.1. Embedded in a ''matrix'' other than a copper or copper-based mixed ''matrix''; and

a.2. Having a cross-section area less than 0.28×10^{-4} mm^2 (6 μm in diameter for circular 'filaments');

b. ''Superconductive'' ''composite'' conductors consisting of one or more ''superconductive'' 'filaments' other than niobium-titanium, having all of the following:

b.1. A ''critical temperature'' at zero magnetic induction exceeding 9.85 K (−263.31 °C); and

b.2. Remaining in the ''superconductive'' state at a temperature of 4.2 K (−268.96 °C) when exposed to a magnetic field oriented in any direction perpendicular to the longitudinal axis of conductor and corresponding to a magnetic induction of 12 T with critical current density exceeding 1750 A/mm^2 on overall cross-section of the conductor.

c. ''Superconductive'' ''composite'' conductors consisting of one or more ''superconductive'' 'filaments' which remain ''superconductive'' above 115 K (−158.16 °C).

Technical Note: For the purpose of 1C005, 'filaments' may be in wire, cylinder, film, tape or ribbon form.

1C006 Fluids and lubricating materials, as follows (see List of Items Controlled).

LICENSE REQUIREMENTS
Reason for Control: NS, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 2
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
LVS: $3000
GBS: Yes for 1C006.d
CIV: Yes for 1C006.d
LIST OF ITEMS CONTROLLED
Related Controls: See also 1C996.
Related Definitions: N/A
Items: a. [Reserved]

b. Lubricating materials containing, as their principal ingredients, any of the following:

b.1. Phenylene or alkylphenylene ethers or thio-ethers, or their mixtures, containing more than two ether or thio-ether functions or mixtures thereof; or

b.2. Fluorinated silicone fluids with a kinematic viscosity of less than 5,000 mm^2/s (5,000 centistokes) measured at 298 K (25 °C);

c. Damping or flotation fluids having all of the following:

c.1. Purity exceeding 99.8%;

c.2. Containing less than 25 particles of 200 µm or larger in size per 100 ml; and

c.3. Made from at least 85% of any of the following:

c.3.a. Dibromotetrafluoroethane (CAS 25497 30-7, 124-73-2, 27336-23- 8);

c.3.b. Polychlorotrifluoroethylene (oily and waxy modifications only); *or*

c.3.c. Polybromotrifluoroethylene;

d. Fluorocarbon electronic cooling fluids having all of the following:

NOTE: 1C006.d does not apply to materials specified and packaged as medical products.

d.1. Containing 85% by weight or more of any of the following, or mixtures thereof:

d.1.a. Monomeric forms of perfluoropolyalkylether- triazines or perfluoroaliphatic-ethers;

d.1.b. Perfluoroalkylamines;

d.1.c. Perfluorocycloalkanes; or

d.1.d. Perfluoroalkanes;

d.2. Density at 298 K (25 °C) of 1.5 g/ml or more;

d.3. In a liquid state at 273 K (0 °C); and

d.4. Containing 60% or more by weight of fluorine;

1C007 Ceramic Powders, Non-"Composite" Ceramic Materials, Ceramic-"Matrix" "composite" Materials and Precursor Materials, as Follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, MT, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 2.
MT applies to items in 1C007.d and .f when the dielectric constant is less than 6 at any frequency from 100 MHz to 100 GHz for use in "missile" radomes.	MT Column 1.
AT applies to entire entry	AT Column 1.

REPORTING REQUIREMENTS See §743.1 of the EAR for reporting requirements for exports under License Exceptions, and Validated End-User authorizations

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: $5000, except N/A for MT and for 1C007.e

GBS: N/A

CIV: N/A

SPECIAL CONDITIONS FOR STA

STA: License Exception STA may not be used to ship any item in 1C007.c or d to any of the destinations listed in Country Group A:6 (See Supplement No. 1 to part 740 of the EAR).

LIST OF ITEMS CONTROLLED

Related Controls: See also 1C107.

Related Definitions: N/A

Items: a. Ceramic powders of single or complex borides of titanium, having total metallic impurities, excluding intentional additions, of less than 5,000 ppm, an average particle size equal to or less than 5 µm and no more than 10% of the particles larger than 10 µm;

b. Non-''composite'' ceramic materials in crude or semi-fabricated form, composed of borides of titanium with a density of 98% or more of the theoretical density;

Note: 1C007.b does not control abrasives.

c. Ceramic-ceramic ''composite'' materials with a glass or oxide-''matrix'' and reinforced with fibers having all the following:

c.1 Made from any of the following materials:

c.1.a. Si-N;

c.1.b. Si-C;

c.1.c. Si-Al-O-N; or

c.1.d. Si-O-N; and

c.2. Having a ''specific tensile strength'' exceeding 12.7×10^3 m;

d. Ceramic-ceramic ''composite'' materials, with or without a continuous metallic phase, incorporating particles, whiskers or fibers, where carbides or nitrides of silicon, zirconium or boron form the ''matrix'';

e. Precursor materials (i.e., special purpose polymeric or metallo-organic materials) for producing any phase or phases of the materials controlled by 1C007.c, as follows:

e.1. Polydiorganosilanes (for producing silicon carbide);

e.2. Polysilazanes (for producing silicon nitride);

e.3. Polycarbosilazanes (for producing ceramics with silicon, carbon and nitrogen components);

f. Ceramic-ceramic ''composite'' materials with an oxide or glass ''matrix'' reinforced with continuous fibers from any of the following systems:

f.1. Al_2O_3 (CAS 1344–28–1); *or*

f.2. Si-C-N.

Note: 1C007.f does not control ''composites'' containing fibers from these systems with a fiber tensile strength of less than 700 MPa at 1,273 K (1,000 °C) or fiber tensile creep resistance of more than 1% creep strain at 100 MPa load and 1,273 K (1,000 °C) for 100 hours.

1C008 Non-fluorinated polymeric substances as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 2
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
LVS: $200
GBS: N/A
CIV: N/A
LIST OF ITEMS CONTROLLED
Related Controls: See also 1A003.
Related Definitions: N/A
Items: a. Non-fluorinated polymeric substances, as follows:
a. Imides as follows:
a.1. Bismaleimides;
a.2. Aromatic polyamide-imides (PAI) having a 'glass transition temperature (T_g)' exceeding 563 K (290 °C);
a.3. Aromatic polyimides having a 'glass transition temperature (Tg)' exceeding 505 K (232 °C);
a.4. Aromatic polyetherimides having a 'glass transition temperature (Tg)' exceeding 563 K (290 °C);
Note: 1C008.a controls the substances in liquid or solid ''fusible'' form, including resin, powder, pellet, film, sheet, tape, or ribbon.
N.B.: For non-''fusible'' aromatic polyimides in film, sheet, tape, or ribbon form, see ECCN 1A003.
b. [Reserved]
c. [Reserved]
d. Polyarylene ketones;
e. Polyarylene sulphides, where the arylene group is biphenylene, triphenylene or combinations thereof;
f. Polybiphenylenethersulphone having a 'glass transition temperature (Tg)' exceeding 563 K (290 °C).
Technical Notes: 1. The 'glass transition temperature (Tg)' for 1C008.a.2 thermoplastic materials, 1C008.a.4 materials and 1C008.f materials is determined using the method described in ISO 11357–2 (1999) or national equivalents.
2. The 'glass transition temperature (Tg)' for 1C008.a.2 thermosetting materials and 1C008.a.3 materials is determined using the 3-point bend method described in ASTM D 7028–07 or equivalent national standard. The test is to be performed using a dry test specimen which has attained a minimum of 90% degree of cure as specified by ASTM E 2160–04 or equivalent national standard, and was cured using the combination of standard- and post-cure processes that yield the highest Tg.

1C009 Unprocessed fluorinated compounds as follows (see List of Items Controlled).
LICENSE REQUIREMENTS
Reason for Control: NS, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 2
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
LVS: $5000
GBS: N/A
CIV: N/A
LIST OF ITEMS CONTROLLED
Related Controls: See also 1A001.
Related Definitions: N/A
Items: a. [Reserved]
b. Fluorinated polyimides containing 10% by weight or more of combined fluorine;
c. Fluorinated phosphazene elastomers containing 30% by weight or more of combined fluorine.

1C010 "Fibrous or filamentary materials" as follows (see List of Items Controlled).
LICENSE REQUIREMENTS
Reason for Control: NS, NP, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 2
NP applies to 1C010.a (aramid "fibrous or filamentary materials", .b (carbon "fibrous and filamentary materials"), and e.1 for "fibrous and filamentary materials" that meet or exceed the control criteria of ECCN 1C210.	NP Column 1
AT applies to entire entry	AT Column 1

REPORTING REQUIREMENTS See §743.1 of the EAR for reporting requirements for exports under License Exceptions, and Validated End-User authorizations
LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
LVS: $1500, N/A for NP
GBS: N/A
CIV: N/A
SPECIAL CONDITIONS FOR STA
STA: License Exception STA may not be used to ship any item in 1C010.c or d to any of the destinations listed in Country Group A:6 (See Supplement No. 1 to part 740 of the EAR).
LIST OF ITEMS CONTROLLED
Related Controls: (1) See ECCNs 1E001 (''development'' and ''production'') and 1E201 (''use'') for technology for items controlled by this entry. (2) Also see ECCNs 1C210 and 1C990. (3) See also 9C110 for material not controlled by 1C010.e, as defined by notes 1 or 2.
Related Definitions: (1) Specific modulus: Young's modulus in pascals, equivalent to N/m^2 divided by specific weight in N/m^3, measured at a temperature of (296±2) K ((23

+ 2) C) and a relative humidity of (50±5)%.

(2) Specific tensile strength: ultimate tensile strength in pascals, equivalent to N/m^2 divided by specific weight in N/m^3, measured at a temperature of (296±2) K ((23±2) C) and a relative humidity of (50±5)%

Items:

Technical Notes: 1. For the purpose of calculating ''specific tensile strength'', ''specific modulus'' or specific weight of ''fibrous or filamentary materials'' in 1C010.a, 1C010.b, 1C010.c or 1C010.e.1.b, the tensile strength and modulus should be determined by using Method A described in ISO 10618 (2004) or national equivalents.

2. Assessing the ''specific tensile strength'', ''specific modulus'' or specific weight of non-unidirectional ''fibrous or filamentary materials'' (e.g., fabrics, random mats or braids) in 1C010 is to be based on the mechanical properties of the constituent unidirectional monofilaments (e.g., monofilaments, yarns, rovings or tows) prior to processing into the non-unidirectional ''fibrous or filamentary materials''.

a. Organic ''fibrous or filamentary materials'', having all of the following:

a.1. ''Specific modulus'' exceeding 12.7×10^6 m; and

a.2. ''Specific tensile strength'' exceeding 23.5×10^4 m;

Note: 1C010.a does not control polyethylene.

b. Carbon ''fibrous or filamentary materials'', having all of the following:

b.1. ''Specific modulus'' exceeding 14.65×10^6 m; *and*

b.2. ''Specific tensile strength'' exceeding 26.82×10^4 m;

Note: 1C010.b does not control:

a. ''Fibrous or filamentary materials'', for the repair of ''civil aircraft'' structures or laminates, having all of the following:

1. An area not exceeding 1 m^2;

2. A length not exceeding 2.5 m; and

3. A width exceeding 15 mm.

b. Mechanically chopped, milled or cut carbon ''fibrous or filamentary materials'' 25.0 mm or less in length.

c. Inorganic ''fibrous or filamentary materials'', having all of the following:

c.1. ''Specific modulus'' exceeding 2.54×10^6 m; *and*

c.2. Melting, softening, decomposition or sublimation point exceeding 1,922 K (1,649 °C) in an inert environment;

Note: 1C010.c does not control:

a. Discontinuous, multiphase, polycrystalline alumina fibers in chopped fiber or random mat form, containing 3% by weight or more silica, with a ''specific modulus'' of less than 10×10^6 m;

b. Molybdenum and molybdenum alloy fibers;

c. Boron fibers;

d. Discontinuous ceramic fibers with a melting, softening, decomposition or sublimation point lower than 2,043 K (1,770 °C) in an inert environment.

d. ''Fibrous or filamentary materials'', having any of the following:

d.1. Composed of any of the following:

d.1.a. Polyetherimides controlled by 1C008.a; or

d.1.b. Materials controlled by 1C008.d to 1C008.f; or

d.2. Composed of materials controlled by 1C010.d.1.a or 1C010.d.1.b and ''commingled'' with other fibers controlled by 1C010.a, 1C010.b or 1C010.c;

e. Fully or partially resin-impregnated or pitch-impregnated ''fibrous or filamentary materials'' (prepregs), metal or carbon-coated ''fibrous or filamentary materials'' (preforms) or ''carbon fiber preforms'', having all of the following:

e.1. Having any of the following:

e.1.a. Inorganic ''fibrous or filamentary materials'' controlled by 1C010.c; or

e.1.b. Organic or carbon ''fibrous or filamentary materials'', having all of the following:

e.1.b.1. ''Specific modulus'' exceeding 10.15×10^6 m; *and*

e.1.b.2 ''Specific tensile strength'' exceeding 17.7×10^4 m; *and*

e.2. Having any of the following:

e.2.a. Resin or pitch, controlled by 1C008 or 1C009.b;

e.2.b. 'Dynamic Mechanical Analysis glass transition temperature (DMA T_g)' equal to or exceeding 453 K (180 °C) and having a phenolic resin; *or*

e.2.c. 'Dynamic Mechanical Analysis glass transition temperature (DMA T_g)' equal to or exceeding 505 K (232 °C) and having a resin or pitch, not specified by 1C008 or 1C009.b, and not being a phenolic resin;

Note 1: Metal or carbon-coated ''fibrous or filamentary materials'' (preforms) or ''carbon fiber preforms'', not impregnated with resin or pitch, are specified by ''fibrous or filamentary materials'' in 1C010.a, 1C010.b or 1C010.c.

Note 2: 1C010.e does not apply to:

a. Epoxy resin ''matrix'' impregnated carbon ''fibrous or filamentary materials'' (prepregs) for the repair of ''civil aircraft'' structures or laminates, having all of the following:

1. An area not exceeding 1 m^2;

2. A length not exceeding 2.5 m; and

3. A width exceeding 15 mm;

b. Fully or partially resin-impregnated or pitch-impregnated mechanically chopped, milled or cut carbon ''fibrous or filamentary materials'' 25.0 mm or less in length when using a resin or pitch other than those specified by 1C008 or 1C009.b.

Technical Note: The 'Dynamic Mechanical Analysis glass transition temperature (DMA T_g)' for materials controlled by 1C010.e is determined using the method described in ASTM D 7028–07, or equivalent national standard, on a dry test specimen. In the case of thermoset materials, degree of cure of a dry test specimen shall be a minimum of 90% as defined by ASTM E 2160 04 or equivalent national standard.

1C011 Metals and compounds, other than those specified in 1C111, as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, MT, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 1
MT applies to 1C011.a and .b for items that meet or exceed the parameters in 1C111.	MT Column 1.
AT applies to entire entry	AT Column 1.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: (1) See also ECCNs 1C111 and 1C608. (2) All of the following are ''subject to the ITAR'' (see 22 CFR parts 120 through 130): a) Materials controlled by 1C011.a, and metal fuels in particle form, whether spherical, atomized, spheroidal, flaked or ground, manufactured from material consisting of 99 percent or more of items controlled by 1C011.b; and b) Metal powders mixed with other substances to form a mixture formulated for military purposes.

Related Definitions: N/A

Items: a. Metals in particle sizes of less than 60 μm whether spherical, atomized, spheroidal, flaked or ground, manufactured from material consisting of 99% or more of zirconium, magnesium and alloys thereof;

Technical Note: The natural content of hafnium in the zirconium (typically 2% to 7%) is counted with the zirconium.

Note: The metals or alloys specified by 1C011.a also refer to metals or alloys encapsulated in aluminum, magnesium, zirconium or beryllium.

b. Boron or boron alloys, with a particle size of 60 μm or less, as follows:

b.1. Boron with a purity of 85% by weight or more;

b.2. Boron alloys with a boron content of 85% by weight or more;

Note: The metals or alloys specified by 1C011.b also refer to metals or alloys encapsulated in aluminum, magnesium, zirconium or beryllium.

c. Guanidine nitrate (CAS 506–93–4);

d. Nitroguanidine (NQ) (CAS 556–88–7).

1C018 Commercial charges and devices containing energetic materials on the Wassenaar Arrangement Munitions List and certain chemicals.

No items currently are in this ECCN. (1) See ECCN 1C608.b. through .m for items that, immediately prior to July 1, 2014 were classified under 1C018.b through .m. (2) See ECCNs 1C011, 1C111, and 1C239 for additional controlled energetic materials, including chlorine trifluoride (ClF_3), which is controlled under ECCN 1C111.a.3.f. (3) See ECCN 1A008 for shaped charges, detonating cord, and cutters and severing tools.

1C101 Materials for Reduced Observables such as Radar Reflectivity, Ultraviolet/Infrared Signatures and Acoustic Signatures (i.e., Stealth Technology), Other than Those Controlled by 1C001, for applications usable in rockets, missiles, or unmanned aerial vehicles capable of achieving a "range" equal to or greater than 300km, and their subsystems.

LICENSE REQUIREMENTS

Reason for Control: MT, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
MT applies to entire entry	MT Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: (1) Materials controlled by this entry include structural materials and coatings (including paints), ''specially designed'' for reduced or tailored reflectivity or emissivity in the microwave, infrared or ultraviolet spectra. (2) This entry does not control coatings (including paints) when specially used for the thermal control of satellites. (3) For commodities that meet the definition of defense articles under 22 CFR 120.3 of the International Traffic in Arms Regulations (ITAR), which describes similar commodities ''subject to the ITAR'' (See 22 CFR parts 120 through 130, including USML Category XIII).

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading.

1C102 Resaturated pyrolized carbon-carbon materials designed for space launch vehicles specified in 9A004 or sounding rockets specified in 9A104. (These items are "subject to the ITAR." See 22 CFR parts 120 through 130.)

1C107 Graphite and Ceramic Materials, Other Than Those Controlled by 1C007, Which Can be Machined to Any of the Following Products as Follows (See List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: MT, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
MT applies to entire entry	MT Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: (1) See also 1C004, 1C007, and 1C298. (2) For commodities that meet the definition of defense articles under 22 CFR 120.3 of the ITAR, which describes similar commodities ''subject to the ITAR'' (See 22 CFR parts 120 through 130, including USML Category XIII). (3) ''Special fissile materials'' and ''other fissile materials''; except, four ''effective grams'' or less when contained in a sensing component in instruments are subject to the export licensing authority of the Nuclear Regulatory Commission (see 10 CFR part 110).

Related Definitions: N/A

Items: a. Fine grain graphites with a bulk density of 1.72 g/cm^3 or greater, measured at 15 °C, and having a grain size of 100 micrometers or less, usable for rocket nozzles and reentry vehicle nose tips as follows:

a.1. Cylinders having a diameter of 120 mm or greater and a length of 50 mm or greater;

a.2. Tubes having an inner diameter of 65 mm or greater and a wall thickness of 25 mm or greater and a length of 50 mm or greater;

a.3. Blocks having a size of 120 mm × 120 mm × 50 mm or greater.

b. Pyrolytic or fibrous reinforced graphites, usable for rocket nozzles and reentry vehicle nose tips;

c. Ceramic composite materials (dielectric constant is less than 6 at any frequency from 100 MHz to 100 GHz) for use in radomes useable in rockets, missiles, and unmanned aerial vehicles capable of achieving a ''range'' equal to or greater than 300 km; *or*

d. Silicon-Carbide materials, useable in rockets, missiles, and unmanned aerial vehicles capable of achieving a ''range'' equal to or greater than 300 km, as follows:

d.1. Bulk machinable silicon-carbide reinforced unfired ceramic, usable for nose tips.

d.2. Reinforced silicon-carbide ceramic composites usable for nose tips, re-entry vehicles, nozzle flaps.

1C111 Propellants and constituent chemicals for propellants, other than those specified in 1C011, as follows (see List of Items Controlled)

LICENSE REQUIREMENTS

Reason for Control: MT, NP, RS, AT

Control(s)	Country chart (See Supp. No. 1 to part 738)
MT applies to entire entry except 1C111.d.3.	MT Column 1
NP applies to 1C111.a.3.f only.	NP Column 1
RS applies to 1C111.d.3 only	RS Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: (1) See USML Category V(e)(7) for controls on HTPB (hydroxyl terminated polybutadiene) with a hydroxyl functionality equal to or greater than 2.2 and less than or equal to 2.4, a hydroxyl value of less than 0.77 meq/g, and a viscosity at 30 °C of less than 47 poise (CAS # 69102–90–5). (2) See USML Category V(f)(3) for controls on ferrocene derivatives, including butacene. (3) See ECCN 1C608 for controls on oxidizers that are composed of fluorine and also other halogens, oxygen, or nitrogen, except for chlorine trifluoride, which is controlled under this ECCN 1C111.a.3.f. (4) See ECCN 1C011.b for controls on boron and boron alloys not controlled under this ECCN 1C111.a.2.b. (5) See USML Category V(d)(10) for controls on Inhibited Red Fuming Nitric Acid (IRFNA) (CAS 8007–58–7).

Related Definitions: Particle size is the mean particle diameter on a weight or volume basis. Best industrial practices must be used in sampling, and in determining particle size, and the controls may not be undermined by the addition of larger or smaller sized material to shift the mean diameter.

Items: a. Propulsive substances:

a.1. Spherical or spheroidal aluminum powder (C.A.S. 7429–90–5) in particle size of less than 200×10^{-6} m (200 μm) and an aluminum content of 97% by weight or more, if at least 10 percent of the total weight is made up of particles of less than 63 μm, according to ISO 2591–1:1988 or national equivalents.

Technical Note: A particle size of 63 μm (ISO R–565) corresponds to 250 mesh (Tyler) or 230 mesh (ASTM standard E–11).

a.2. Metal powders and alloys where at least 90% of the total particles by particle volume or weight are made up of particles of less than 60 μ (determined by measurement techniques such as using a sieve, laser diffraction or optical scanning), whether spherical, atomized, spheroidal, flaked or ground, as follows:

a.2.a. Consisting of 97% by weight or more of any of the following:

a.2.a.1. Zirconium (C.A.S. # 7440–67–7);

a.2.a.2. Beryllium (C.A.S. # 7440–41–7); or

a.2.a.3. Magnesium (C.A.S. # 7439–95–4);.

a.2.b. Boron or boron alloys with a boron content of 85% or more by weight.

Technical Note: The natural content of hafnium in the zirconium (typically 2% to 7%) is counted with the zirconium.

Note: In a multimodal particle distribution (e.g., mixtures of different grain sizes) in which one or more modes are controlled, the entire powder mixture is controlled.

a.3. Oxidizer substances usable in liquid propellant rocket engines, as follows:

a.3.a. Dinitrogen trioxide (CAS 10544–73–7);

a.3.b. Nitrogen dioxide (CAS 10102–44–0)/dinitrogen tetroxide (CAS 10544–72–6);

a.3.c. Dinitrogen pentoxide (CAS 10102–03–1);

a.3.d. Mixed oxides of nitrogen (MON);

a.3.e. [Reserved];

a.3.f. Chlorine trifluoride (ClF_3).

Technical Note: Mixed oxides of nitrogen (MON) are solutions of nitric oxide (NO) in dinitrogen tetroxide/nitrogen dioxide (N_2O_4/NO_2) that can be used in missile systems. There are a range of compositions that can be denoted as MONi or MONij, where i and j are integers representing the percentage of nitric oxide in the mixture (e.g., MON3 contains 3% nitric oxide, MON25 25% nitric oxide. An upper limit is MON40, 40% by weight).

b. Polymeric substances:

b.1. Carboxy-terminated polybutadiene (including carboxyl-terminated polybutadiene) (CTPB);

b.2. Hydroxy-terminated polybutadiene (including hydroxyl-terminated polybutadiene) (HTPB), except for hydroxyl-terminated polybutadiene as specified in USML Category V (see 22 CFR 121.1) (also see Related Controls Note #1 for this ECCN);

b.3. Polybutadiene acrylic acid (PBAA);

b.4. Polybutadiene acrylic acid acrylonitrile (PBAN) (CAS 25265–19–4/CAS 68891–50–9);

b.5. Polytetrahydrofuran polyethylene glycol (TPEG).

Technical Note: Polytetrahydrofuran polyethylene glycol (TPEG) is a block copolymer of poly 1,4-Butanediol (CAS 110–63–4) and polyethylene glycol (PEG) (CAS 25322–68–3).

c. Other propellant energetic materials, additives, or agents:

c.1. [Reserved]

c.2. Triethylene glycol dinitrate (TEGDN);

c.3. 2 Nitrodiphenylamine (2–NDPA);

c.4. Trimethylolethane trinitrate (TMETN);

c.5. Diethylene glycol dinitrate (DEGDN).

d. Hydrazine and derivatives as follows:

d.1. Hydrazine (C.A.S. # 302–01–2) in concentrations of 70% or more;

d.2. Monomethyl hydrazine (MMH) (C.A.S. # 60–34–4);

d.3. Symmetrical dimethyl hydrazine (SDMH) (C.A.S. # 540–73–8);

d.4. Unsymmetrical dimethyl hydrazine (UDMH) (C.A.S. # 57–14–7);

d.5. Trimethylhydrazine (C.A.S. # 1741–01–1);

d.6. Tetramethylhydrazine (C.A.S. # 6415–12–9);

d.7. N,N diallylhydrazine (CAS 5164–11–4);

d.8. Allylhydrazine (C.A.S. # 7422–78–8);

d.9. Ethylene dihydrazine (CAS 6068–98–0);

d.10. Monomethylhydrazine dinitrate;

d.11. Unsymmetrical dimethylhydrazine nitrate;

d.12. 1,1-Dimethylhydrazinium azide (CAS 227955–52–4)/1,2-Dimethylhydrazinium azide (CAS 299177–50–7);

d.13. Hydrazinium azide (C.A.S. # 14546–44–2);

d.14. Hydrazinium dinitrate (CAS 13464–98–7);

d.15. Diimido oxalic acid dihydrazine (C.A.S. # 3457–37–2);

d.16. 2-hydroxyethylhydrazine nitrate (HEHN);

d.17. Hydrazinium diperchlorate (C.A.S. # 13812–39–0);

d.18. Methylhydrazine nitrate (MHN) (CAS 29674–96–2);

d.19. 1,1-Diethylhydrazine nitrate (DEHN)/1,2-Diethylhydrazine nitrate (DEHN) (CAS 363453–17–2);

d.20. 3,6-dihydrazino tetrazine nitrate (DHTN), also referred to as 1,4-dihydrazine nitrate.

1C116 Maraging steels having both of the following (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: MT, NP, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
MT applies to entire entry	MT Column 1
NP applies to items that meet or exceed the parameters of 1C216.	NP Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: (1) See ECCNs 1E001 (''development'' and ''production'') and 1E101 (''use'') for technology for items controlled by this entry. (2) Also see ECCN 1C216. (3) Maraging steel, in physical forms and finished products and ''specially designed'' or prepared for use in separating uranium isotopes, is subject to the export licensing authority of the Nuclear Regulatory Commission (see 10 CFR part 110).

Related Definitions: N/A

Items: a. Having an ultimate tensile strength, measured at 20 °C, equal to or greater than:

a.1. 0.9 GPa in the solution annealed stage; *or*

a.2. 1.5 GPa in the precipitation hardened stage; *and*

b. Any of the following forms:

b.1 Sheet, plate or tubing with a wall or plate thickness equal to or less than 5.0 mm; *or*

b.2 Tubular forms with a wall thickness equal to or less than 50 mm and having an inner diameter equal to or greater than 270 mm.

Technical Note:

Maraging steels are iron alloys that are generally:

a. Characterized by high nickel, very low carbon content and use substitutional elements or precipitates to produce strengthening and age-hardening of the alloy; and

b. Subjected to heat treatment cycles to facilitate the martensitic transformation process (solution annealed stage) and subsequently age hardened (precipitation hardened stage).

1C117 Materials for the fabrication of missile "parts" or "components" for rockets or missiles capable of achieving a "range" equal to or greater than 300 km, as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: MT, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
MT applies to entire entry	MT Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: See 1C226.

Related Definitions: N/A

Items: a. Tungsten and alloys in particulate form with a tungsten content of 97% by weight or more and a particle size of 50×10^{-6} m (50 µm) or less;

b. Molybdenum and alloys in particulate form with a molybdenum content of 97% by weight or more and a particle size of 50×10^{-6} m (50 µm) or less;

c. Tungsten materials in the solid form having all of the following:

c.1. Any of the following material compositions:

c.1.a. Tungsten and alloys containing 97% by weight or more of tungsten;

c.1.b. Copper infiltrated tungsten containing 80% by weight or more of tungsten; *or*

c.1.c. Silver infiltrated tungsten containing 80% by weight or more of tungsten; *and*

c.2. Able to be machined to any of the following products:

c.2.a. Cylinders having a diameter of 120 mm or greater and a length of 50 mm or greater;

c.2.b. Tubes having an inner diameter of 65 mm or greater and a wall thickness of 25 mm or greater and a length of 50 mm or greater; *or*

c.2.c. Blocks having a size of 120 mm × 120 mm × 50 mm or greater.

1C118 Titanium-stabilized duplex stainless steel (Ti-DSS), having all of the following characteristics (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: MT, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
MT applies to entire entry.	MT Column 1.
1AT applies to entire entry. ...	AT Column 1.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: a. Having all of the following characteristics:

a.1. Containing 17.0–23.0 weight percent chromium and 4.5–7.0 weight percent nickel;

a.2. Having a titanium content of greater than 0.10 weight percent; and

a.3. A ferritic-austenitic microstructure (also referred to as a two-phase microstructure) of which at least 10 percent is austenite by volume (according to ASTM E–1181–87 or national equivalents), and

b. Having any of the following forms:

b.1. Ingots or bars having a size of 100 mm or more in each dimension;

b.2. Sheets having a width of 600 mm or more and a thickness of 3 mm or less; or

b.3. Tubes having an outer diameter of 600 mm or more and a wall thickness of 3 mm or less.

1C202 Alloys other than those controlled by 1C002.b.3 or 1C002.b.4 as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NP, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NP applies to entire entry	NP Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: (1) See ECCNs 1E001 (''development'' and ''production'') and 1E201 (''use'') for technology for items controlled by this entry. (2) Also see ECCN 1C002. (3) Aluminum alloys and titanium alloys, in physical forms and finished products and ''specially designed'' or prepared for use in separating uranium isotopes, are subject to the export licensing authority of the Nuclear Regulatory Commission (see 10 CFR part 110).

Related Definitions: The phrase ''capable of'' refers to aluminum alloys and titanium alloys either before or after heat treatment.

Items: a. Aluminum alloys having both of the following characteristics:

a.1. ''Capable of'' an ultimate tensile strength of 460 MPa or more at 293 K (20 °C); *and*

a.2. In the form of tubes or cylindrical solid forms (including forgings) with an outside diameter of more than 75 mm;

b. Titanium alloys having both of the following characteristics:

b.1. ''Capable of'' an ultimate tensile strength of 900 MPa or more at 293 K (20 °C); *and*

b.2. In the form of tubes or cylindrical solid forms (including forgings) with an outside diameter of more than 75 mm.

1C210 "Fibrous or filamentary materials" or prepregs, other than those controlled by 1C010.a, .b or .e, as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NP, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NP applies to entire entry	NP Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: (1) See ECCNs 1E001 (''development'' and ''production'') and 1E201 (''use'') for technology for items controlled by this entry. (2) Also see ECCNs 1C010 and 1C990.

Related Definitions: For the purpose of this entry, the term ''fibrous or filamentary materials'' is restricted to continuous ''monofilaments'', ''yarns'', ''rovings'', ''tows'', or ''tapes''. Definitions for other terms used in this entry:

Filament or Monofilament is the smallest increment of fiber, usually several μm in diameter.

Strand is a bundle of filaments (typically over 200) arranged approximately parallel.

Roving is a bundle (typically 12–120) of approximately parallel strands.

Yarn is a bundle of twisted strands.

Tow is a bundle of filaments, usually approximately parallel.

Tape is a material constructed of interlaced or unidirectional filaments, strands, rovings, tows, or yarns, etc., usually preimpregnated with resin.

Specific modulus is the Young's modulus in N/m^2 divided by the specific weight in N/m^3, measured at a temperature of (296 ±2) K ((23 ±2) °C) and a relative humidity of 50 ±5 percent.

Specific tensile strength is the ultimate tensile strength in N/m^2 divided by specific weight in N/m^3, measured at a temperature of (296 ±2) K ((23 ±2) °C) and a relative humidity of 50 ±5 percent.

Items: a. Carbon or aramid ''fibrous or filamentary materials'' having a ''specific modulus'' of 12.7×10^6 m or greater or a ''specific tensile strength'' of 235×10^3 m or greater *except* Aramid ''fibrous or filamentary materials'' having 0.25 percent or more by weight of an ester based fiber surface modifier;

b. Glass ''fibrous or filamentary materials'' having a ''specific modulus'' of 3.18×10^6 m or greater and a ''specific tensile strength'' of 76.2×10^3 m or greater; *or*

c. Thermoset resin impregnated continuous ''yarns'', ''rovings'', ''tows'' or ''tapes'' with a width no greater than 15 mm (prepregs), made from carbon or glass ''fibrous or filamentary materials'' controlled by 1C210.a or .b.

TECHNICAL NOTE: The resin forms the matrix of the composite.

1C216 Maraging steel, other than that controlled by 1C116, "capable of" an ultimate tensile strength of 1,950 MPa or more, at 293 K (20 °C).

LICENSE REQUIREMENTS

Reason for Control: NP, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NP applies to entire entry	NP Column 1.
AT applies to entire entry	AT Column 1.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: (1) See ECCNs 1E001 (''development'' and ''production'') and 1E201 (''use'') for technology for items controlled by this entry.

(2) Also see ECCN 1C116.

(3) Maraging steel, in physical form and finished products ''specially designed'' or

prepared for use in separating uranium isotopes, is subject to the export licensing authority of the Nuclear Regulatory Commission (see 10 CFR part 110).

Related Definitions: The phrase ''capable of'' in the ECCN heading refers to maraging steel either before or after heat treatment.

ECCN Controls: This entry does not control forms in which all linear dimensions are 75 mm or less.

Items: The list of items controlled is contained in the ECCN heading.

1C225 Boron enriched in the boron-10 (^{10}B) isotope to greater than its natural isotopic abundance, as follows: elemental boron, compounds, mixtures containing boron, manufactures thereof, waste or scrap of any of the foregoing.

LICENSE REQUIREMENTS

Reason for Control: NP, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NP applies to entire entry	NP Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: See ECCNs 1E001 (''development'' and ''production'') and 1E201 (''use'') for technology for items controlled by this entry.

Related Definitions: In this entry, mixtures containing boron include boron-loaded materials.

Items: The list of items controlled is contained in the ECCN heading.

Technical Note: The natural isotopic abundance of boron-10 is approximately 18.5 weight percent (20 atom percent).

1C226 Tungsten, tungsten carbide, and alloys containing more than 90% tungsten by weight, having both of the following characteristics (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NP, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NP applies to entire entry	NP Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: See ECCNs 1E001 (''development'' and ''production'') and 1E201 (''use'') for technology for items controlled by this entry.

Related Definitions: N/A

ECCN Controls: This entry does not control manufactures ''specially designed'' as weights or gamma-ray collimators.

Items: a. In forms with a hollow cylindrical symmetry (including cylinder segments) with an inside diameter between 100 and 300 mm; *and*

b. A mass greater than 20 kg.

1C227 Calcium having both of the following characteristics (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NP, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NP applies to entire entry	NP Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: See ECCNs 1E001 (''development'' and ''production'') and 1E201 (''use'') for technology for items controlled by this entry.

Related Definitions: N/A

Items: a. Containing less than 1,000 parts per million by weight of metallic impurities other than magnesium; *and*

b. Containing less than 10 parts per million by weight of boron.

1C228 Magnesium having both of the following characteristics (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NP, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NP applies to entire entry	NP Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: See ECCNs 1E001 (''development'' and ''production'') and 1E201 (''use'') for technology for items controlled by this entry.

Related Definitions: N/A

Items: a. Containing less than 200 parts per million by weight of metallic impurities other than calcium; *and*

b. Containing less than 10 parts per million by weight of boron.

1C229 Bismuth having both of the following characteristics (see List of Items Controlled)

LICENSE REQUIREMENTS

Reason for Control: NP, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NP applies to entire entry	NP Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: See ECCNs 1E001 (''development'' and ''production'') and 1E201 (''use'') for technology for items controlled by this entry.

Related Definitions: N/A

Items: a. A purity of 99.99% or greater by weight; *and*

b. Containing less than 10 parts per million by weight of silver.

1C230 Beryllium metal, alloys containing more than 50% beryllium by weight, beryllium compounds, manufactures thereof, and waste or scrap of any of the foregoing.

LICENSE REQUIREMENTS

Reason for Control: NP, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NP applies to entire entry	NP Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: See ECCNs 1E001 (''development'' and ''production'') and 1E201 (''use'') for technology for items controlled by this entry.

Related Definitions: N/A

ECCN Controls: This entry does not control the following:

a. Metal windows for X-ray machines, or for bore-hole logging devices;

b. Oxide shapes in fabricated or semi-fabricated forms ''specially designed'' for electronic component parts or as substrates for electronic circuits;

c. Beryl (silicate of beryllium and aluminum) in the form of emeralds or aquamarines.

Items: The list of items controlled is contained in the ECCN heading.

1C231 Hafnium metal, hafnium alloys and compounds containing more than 60% hafnium by weight, manufactures thereof, and waste or scrap of any of the foregoing.

LICENSE REQUIREMENTS

Reason for Control: NP, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NP applies to entire entry	NP Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: See ECCNs 1E001 (''development'' and ''production'') and 1E201 (''use'') for technology for items controlled by this entry.

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading.

1C232 Helium-3 (^{3}He), mixtures containing helium-3, and products or devices containing any of the foregoing.

LICENSE REQUIREMENTS

Reason for Control: NP, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NP applies to entire entry	NP Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: See ECCNs 1E001 (''development'' and ''production'') and 1E201 (''use'') for technology for items controlled by this entry.

Related Definitions: N/A

ECCN Controls: This entry does not control a product or device containing less than 1 g of helium-3.

Items: The list of items controlled is contained in the ECCN heading.

1C233 Lithium enriched in the lithium-6 (^{6}Li) isotope to greater than its natural

isotopic abundance, and products or devices containing enriched lithium, as follows: elemental lithium, alloys, compounds, mixtures containing lithium, manufactures thereof, and waste or scrap of any of the foregoing.

LICENSE REQUIREMENTS

Reason for Control: NP, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NP applies to entire entry	NP Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: (1) See ECCNs 1E001 (''development'' and ''production'') and 1E201 (''use'') for technology for items controlled by this entry. (2) See ECCN 1B233 for lithium isotope separation facilities or plants, and equipment therefor. (3) Certain facilities or plants for the separation of lithium isotopes are subject to the export licensing authority of the Nuclear Regulatory Commission (see 10 CFR part 110).

Related Definitions: The natural isotopic abundance of lithium-6 is approximately 6.5 weight percent (7.5 atom percent).

ECCN Controls: This entry does not control thermoluminescent dosimeters.

Items: The list of items controlled is contained in the ECCN heading.

1C234 Zirconium with a hafnium content of less than 1 part hafnium to 500 parts zirconium by weight, as follows: metal, alloys containing more than 50% zirconium by weight, compounds, manufactures thereof, and waste or scrap of any of the foregoing.

LICENSE REQUIREMENTS

Reason for Control: NP, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NP applies to entire entry	NP Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: (1) See ECCNs 1E001 (''development'' and ''production'') and 1E201 (''use'') for technology for items controlled by this entry. (2) Zirconium metal and alloys in the form of tubes or assemblies of tubes, ''specially designed'' or prepared for use in a reactor, are subject to the export licensing authority of the Nuclear Regulatory Commission (see 10 CFR part 110).

Related Definitions: N/A

ECCN Controls: This entry does not control zirconium in the form of foil having a thickness of 0.10 mm (0.004 in.) or less.

Items: The list of items controlled is contained in the ECCN heading.

1C235 Tritium, tritium compounds, mixtures containing tritium in which the ratio of tritium to hydrogen atoms exceeds 1 part in 1,000, and products or devices containing any of the foregoing.

LICENSE REQUIREMENTS

Reason for Control: NP, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NP applies to entire entry	NP Column 1.
AT applies to entire entry	AT Column 1.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: (1) See ECCNs 1E001 (''development'' and ''production'') and 1E201 (''use'') for technology for items controlled by this entry. (2) Also see ECCN 1B231. (3) Tritium that is byproduct material (*e.g.*, produced in a nuclear reactor) is subject to the export licensing authority of the Nuclear Regulatory Commission (see 10 CFR part 110).

Related Definitions: N/A

ECCN Controls: (1) This entry does not control tritium, tritium compounds, and mixtures that are byproduct material (e.g., produced in a nuclear reactor)—such materials are subject to the licensing jurisdiction of the Nuclear Regulatory Commission (see Related Controls paragraph for this entry). (2) This entry does not control a product or device containing less than 1.48×10^3 GBq (40 Ci) of tritium.

Items: The list of items controlled is contained in the ECCN heading.

1C236 Radionuclides appropriate for making neutron sources based on alpha-n reaction and products or devices containing such radionuclides (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NP, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NP applies to entire entry	NP Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
LVS: N/A
GBS: N/A
CIV: N/A
LIST OF ITEMS CONTROLLED
Related Controls: (1) See ECCNs 1E001 (''development'' and ''production'') and 1E201 (''use'') for technology for items controlled by this entry. (2) Certain alpha-emitting radionuclides are subject to the export licensing authority of the Nuclear Regulatory Commission (see 10 CFR part 110).
Related Definitions: N/A
ECCN Controls: This entry does not control a product or device containing less than 3.7 GBq (100 millicuries) of activity.
Items: a. Radionuclides identified in 1C236.a.1 in any of the forms described in 1C236.a.2:
a.1. Radionuclides, as follows, appropriate for making neutron sources based on alpha-n reactions:
a.1.a. Actinium 225;
a.1.b. Actinium 227;
a.1.c. Californium 253;
a.1.d. Curium 240;
a.1.e. Curium 241;
a.1.f. Curium 242;
a.1.g. Curium 243;
a.1.h. Curium 244;
a.1.i. Einsteinium 253;
a.1.j. Einsteinium 254;
a.1.k. Gadolinium 148;
a.1.l. Plutonium 236;
a.1.m. Plutonium 238;
a.1.n. Polonium 208;
a.1.o. Polonium 209;
a.1.p. Polonium 210;
a.1.q. Radium 223;
a.1.r. Thorium 227;
a.1.s. Thorium 228;
a.1.t. Uranium 230;
a.1.u. Uranium 232; *and*
a.2. In any of the following forms:
a.2.a. Elemental;
a.2.b. Compounds having a total activity of 37 GBq (1 curie) per kg or greater; *or*
a.2.c. Mixtures having a total activity of 37 GBq (1 curie) per kg or greater.
b. Products or devices containing radionuclides identified in 1C236.a.1 in any of the forms described in 1C236.a.2.

1C237 Radium-226 (^{226}Ra), radium-226 alloys, radium-226 compounds, mixtures containing radium-226, manufactures thereof, and products or devices containing any of the foregoing.
LICENSE REQUIREMENTS
Reason for Control: NP, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NP applies to entire entry	NP Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
LVS: N/A
GBS: N/A
CIV: N/A
LIST OF ITEMS CONTROLLED
Related Controls: See ECCNs 1E001 (''development'' and ''production'') and 1E201 (''use'') for technology for items controlled by this entry.
Related Definitions: N/A
ECCN Controls: This entry does not control the following:
a. Medical applicators;
b. A product or device containing less than 0.37 GBq (10 millicuries) of radium-226.
Items: The list of items controlled is contained in the ECCN heading.

1C239 High explosives, other than those controlled by the U.S. Munitions List, or substances or mixtures containing more than 2% by weight thereof, with a crystal density greater than 1.8 g/cm^3 and having a detonation velocity greater than 8,000 m/s.
LICENSE REQUIREMENTS
Reason for Control: NP, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NP applies to entire entry	NP Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
LVS: N/A
GBS: N/A
CIV: N/A
LIST OF ITEMS CONTROLLED
Related Controls: (1) See ECCNs 1E001 (''development'' and ''production'') and 1E201 (''use'') for technology for items controlled by this entry. (2) See ECCNs 1C608 (energetic materials and related commodities on the Wassenaar Arrangement Munitions List) and 1C992 (commercial charges and devices containing energetic materials, n.e.s and nitrogen trifluoride in a gaseous state). (3) High explosives for military use are ''subject to the ITAR'' (see 22 CFR Part 121.1).
Related Definitions: N/A
Items: The list of items controlled is contained in the ECCN heading.

1C240 Nickel powder or porous nickel metal, other than nickel powder or porous nickel metal, specially prepared for the manufacture of gaseous diffusion barriers subject to the export licensing authority of the Nuclear Regulatory Commission (see 10 CFR part 110), as follows (see List of Items Controlled).
Reason for Control: NP, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NP applies to entire entry	NP Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: (1) See ECCNs 1E001 (''development'' and ''production'') and 1E201 (''use'') for technology for items controlled by this entry. (2) Nickel powder and porous nickel metal, ''specially designed'' or prepared for use in separating uranium isotopes, are subject to the export licensing authority of the Nuclear Regulatory Commission (see 10 CFR part 110).

Related Definitions: N/A

ECCN Controls: This entry does not control the following:

a. Filamentary nickel powders;

b. Single porous nickel sheets with an area of 1,000 cm^2 per sheet or less.

Items: a. Nickel powder having both of the following characteristics:

a.1. A nickel purity content of 99.0% or greater by weight; and

a.2. A mean particle size of less than 10 micrometers measured by American Society for Testing and Materials (ASTM) B330 standard;

b. Porous nickel metal produced from materials controlled by 1C240.a.

Technical Note: 1C240.b refers to porous metal formed by compacting and sintering the materials in 1C240.a to form a metal material with fine pores interconnected throughout the structure.

1C241 Rhenium and alloys containing rhenium (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NP, AT

Control(s)	Country chart (see Supp. No. 1 to part 738)
NP applies to entire entry	NP Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: a. Rhenium and alloys containing rhenium, as follows, having both of the characteristics described in 1C241.b:

a.1. Alloys containing 90% by weight or more of rhenium;

a.2. Alloys containing 90% by weight or more of any combination of rhenium and tungsten; *and*

b. Having both of the following characteristics:

b.1. In forms with a hollow cylindrical symmetry (including cylinder segments) with an inside diameter between 100 mm and 300 mm; *and*

b.2. A mass greater than 20 kg.

1C298 Graphite with a boron content of less than 5 parts per million and a density greater than 1.5 grams per cubic centimeter that is intended for use other than in a nuclear reactor.

LICENSE REQUIREMENTS

Reason for Control: NP

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NP applies to entire entry	NP Column 2

LICENSE REQUIREMENT NOTE: Some graphite intended for use in a nuclear reactor is subject to the export licensing authority of the Nuclear Regulatory Commission (see 10 CFR part 110).

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: (1) See also 1C107. (2) Graphite having a purity level of less than 5 parts per million ''boron equivalent'' as measured according to ASTM standard C–1233–98 and intended for use in a nuclear reactor is subject to the export licensing authority of the Nuclear Regulatory Commission (see 10 CFR part 110).

Related Definitions: For the purpose of this entry, graphite with a purity level better than 5 parts per million boron equivalent is determined according to ASTM standard C1233–98. In applying ASTM standard C1233–98, the boron equivalence of the element carbon is not included in the boron equivalence calculation, since carbon is not considered an impurity.

Items: The list of items controlled is contained in the ECCN heading.

1C350 Chemicals that may be used as precursors for toxic chemical agents (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: CB, CW, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
CB applies to entire entry	CB Column 2

CW applies to 1C350 .b, and .c. The Commerce Country Chart is not designed to determine licensing requirements for items controlled for CW reasons. A license is required, for CW reasons, to export or reexport Schedule 2 chemicals and mixtures identified in 1C350.b to States not Party to the CWC (destinations not listed in Supplement No. 2 to part 745 of the EAR). A license is required, for CW reasons, to export Schedule 3 chemicals and mixtures identified in 1C350.c to States not Party to the CWC, unless an End-Use Certificate issued by the government of the importing country has been obtained by the exporter prior to export. A license is required, for CW reasons, to reexport Schedule 3 chemicals and mixtures identified in 1C350.c from a State not Party to the CWC to any other State not Party to the CWC. (See §742.18 of the EAR for license requirements and policies for toxic and precursor chemicals controlled for CW reasons. See §745.2 of the EAR for End-Use Certificate requirements that apply to exports of Schedule 3 chemicals to countries not listed in Supplement No. 2 to part 745 of the EAR.)

AT applies to entire entry. The Commerce Country Chart is not designed to determine licensing requirements for items controlled for AT reasons in 1C350. A license is required, for AT reasons, to export or reexport items controlled by 1C350 to a country in Country Group E:1 of Supplement No. 1 to part 740 of the EAR. (See part 742 of the EAR for additional information on the AT controls that apply to Iran, North Korea, Sudan, and Syria. See part 746 of the EAR for additional information on sanctions that apply to Iran, North Korea, and Syria.)

License Requirement Notes 1. Sample Shipments: Subject to the following requirements and restrictions, a license is not required for sample shipments when the cumulative total of these shipments does not exceed a 55-gallon container or 200 kg of a single chemical to any one consignee during a calendar year. A consignee that receives a sample shipment under this exclusion may not resell, transfer, or reexport the sample shipment, but may use the sample shipment for any other legal purpose unrelated to chemical weapons.

a. Chemicals Not Eligible:

A. [Reserved]

B. CWC Schedule 2 chemicals (States not Party to the CWC). No CWC Schedule 2 chemical or mixture identified in 1C350.b is eligible for sample shipment to States not Party to the CWC (destinations not listed in Supplement No. 2 to part 745 of the EAR) without a license.

b. Countries Not Eligible: Countries in Country Group E:1 of Supplement No. 1 to part 740 of the EAR are not eligible to receive sample shipments of any chemicals controlled by this ECCN without a license.

c. Sample shipments that require an End-Use Certificate for CW reasons: No CWC Schedule 3 chemical or mixture identified in 1C350.c is eligible for sample shipment to States not Party to the CWC (destinations not listed in Supplement No. 2 to part 745 of the EAR) without a license, unless an End-Use Certificate issued by the government of the importing country is obtained by the exporter prior to export (see §745.2 of the EAR for End-Use Certificate requirements).

d. Sample shipments that require a license for reasons set forth elsewhere in the EAR: Sample shipments, as described in this Note 1, may require a license for reasons set forth elsewhere in the EAR. See, in particular, the end-use/end-user restrictions in part 744 of the EAR, and the restrictions that apply to embargoed countries in part 746 of the EAR.

e. Annual report requirement. The exporter is required to submit an annual written report for shipments of samples made under this Note 1. The report must be on company letterhead stationery (titled ''Report of Sample Shipments of Chemical Precursors'' at the top of the first page) and identify the chemical(s), Chemical Abstract Service Registry (C.A.S.) number(s), quantity(ies), the ultimate consignee's name and address, and the date of export for all sample shipments that were made during the previous calendar year. The report must be submitted no later than February 28 of the year following the calendar year in which the sample shipments were made, to: U.S. Department of Commerce, Bureau of Industry and Security, 14th Street and Pennsylvania Ave. NW., Room 2099B, Washington, DC 20230, Attn: ''Report of Sample Shipments of Chemical Precursors.''

2. Mixtures:

a. Mixtures that contain precursor chemicals identified in ECCN 1C350, in concentrations that are below the levels indicated in 1C350.b through .d, are controlled by ECCN 1C395 or 1C995 and are subject to the licensing requirements specified in those ECCNs.

b. A license is not required under this ECCN for a mixture, when the controlled chemical in the mixture is a normal ingredient in consumer goods packaged for retail sale for personal use. Such consumer goods are designated EAR99. However, a license may be required for reasons set forth elsewhere in the EAR.

Note to mixtures: Calculation of concentrations of AG-controlled chemicals:

a. Exclusion. No chemical may be added to the mixture (solution) for the sole purpose of circumventing the Export Administration Regulations;

b. Percent Weight Calculation. When calculating the percentage, by weight, of ingredients in a chemical mixture, include all ingredients of the mixture, including those that act as solvents.

3. Compounds. Compounds created with any chemicals identified in this ECCN 1C350 may be shipped NLR (No License Required), without obtaining an End-Use Certificate, unless those compounds are also identified in this entry or require a license for reasons set forth elsewhere in the EAR.

4. Testing Kits: Certain medical, analytical, diagnostic, and food testing kits containing small quantities of chemicals identified in this ECCN 1C350, are excluded from the scope of this ECCN and are controlled under ECCN 1C395 or 1C995. (Note that replacement reagents for such kits are controlled by this ECCN 1C350 if the reagents contain one or more of the precursor chemicals identified in 1C350 in concentrations equal to or greater than the control levels for mixtures indicated in 1C350.)

Technical Notes: 1. For purposes of this entry, a ''mixture'' is defined as a solid, liquid or gaseous product made up of two or more ingredients that do not react together under normal storage conditions.

2. The scope of this control applicable to Hydrogen Fluoride (see 1C350.d.7 in the List of Items Controlled) includes its liquid, gaseous, and aqueous phases, and hydrates.

3. Precursor chemicals in ECCN 1C350 are listed by name, Chemical Abstract Service (CAS) number and CWC Schedule (where applicable). Precursor chemicals of the same structural formula (e.g., hydrates) are controlled by ECCN 1C350, regardless of name or CAS number. CAS numbers are shown to assist in identifying whether a particular precursor chemical or mixture is controlled under ECCN 1C350, irrespective of nomenclature. However, CAS numbers cannot be used as unique identifiers in all situations because some forms of the listed precursor chemical have different CAS numbers, and mixtures containing a precursor chemical listed in ECCN 1C350 may also have different CAS numbers.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: See USML Category XIV(c) for related chemicals ''subject to the ITAR'' (see 22 CFR parts 120 through 130).

Related Definitions: See §770.2(k) of the EAR for synonyms for the chemicals listed in this entry.

Items: a. [Reserved]

b. Australia Group-controlled precursor chemicals also identified as Schedule 2 chemicals under the CWC, as follows, and mixtures in which at least one of the following chemicals constitutes 30 percent or more of the weight of the mixture:

b.1. (C.A.S. #7784–34–1) Arsenic trichloride;

b.2. (C.A.S. #76–93–7) Benzilic acid;

b.3. (C.A.S. #78–38–6) Diethyl ethylphosphonate;

b.4. (C.A.S. #15715–41–0) Diethyl methylphosphonite;

b.5. (C.A.S. #2404–03–7) Diethyl-N,N-dimethylphosphoroamidate;

b.6. (C.A.S. #5842–07–9) N,N-Diisopropyl-beta-aminoethane thiol;

b.7. (C.A.S. #4261–68–1) N,N-Diisopropyl-beta-aminoethyl chloride hydrochloride;

b.8. (C.A.S. #96–80–0) N,N-Diisopropyl-beta-aminoethanol;

b.9. (C.A.S. #96–79–7), N,N-Diisopropyl-beta-aminoethyl chloride;

b.10. (C.A.S. #6163–75–3) Dimethyl ethylphosphonate;

b.11. (C.A.S. #756–79–6) Dimethyl methylphosphonate;

b.12. (C.A.S. #1498–40–4) Ethyl phosphonous dichloride [Ethyl phosphinyl dichloride];

b.13. (C.A.S. #430–78–4) Ethyl phosphonus difluoride [Ethyl phosphinyl difluoride];

b.14. (C.A.S. #1066–50–8) Ethyl phosphonyl dichloride;

b.15. [Reserved]

b.16. [Reserved]

b.17. [Reserved]

b.18. (C.A.S. #464–07–3) Pinacolyl alcohol;

b.19. (C.A.S. #1619–34–7) 3-Quinuclidinol;

b.20. (C.A.S. #111–48–8) Thiodiglycol;

b.21. (C.A.S. #993–13–5) Methylphosphonic acid;

b.22. (C.A.S. #683–08–9) Diethyl methylphosphonate;

b.23. (C.A.S. #677–43–0) N,N-dimethylamino-phosphoryl dichloride;

b.24. (C.A.S. #676–98–2) Methylphosphonothioic dichloride.

c. Australia Group-controlled precursor chemicals also identified as Schedule 3 chemicals under the CWC, as follows, and mixtures in which at least one of the following chemicals constitutes 30 percent or more of the weight of the mixture:

c.1. (C.A.S. #762–04–9) Diethyl phosphite;

c.2. (C.A.S. #868–85–9) Dimethyl phosphite (dimethyl hydrogen phosphite);

c.3. (C.A.S. #10025–87–3) Phosphorus oxychloride;

c.4. (C.A.S. #10026–13–8) Phosphorus pentachloride;

c.5. (C.A.S. #7719–12–2) Phosphorus trichloride;

c.6. (C.A.S. #10025–67–9) Sulfur monochloride;

c.7. (C.A.S. #10545–99–0) Sulfur dichloride;

c.8. (C.A.S. #7719–09–7) Thionyl chloride;

c.9. (C.A.S. #102–71–6) Triethanolamine;

c.10. (C.A.S. #122–52–1) Triethyl phosphite;

c.11. (C.A.S. #121–45–9) Trimethyl phosphite;

c.12. (C.A.S. #139–87–7) Ethyldiethanolamine.

d. Other Australia Group-controlled precursor chemicals not also identified as Schedule 1, 2, or 3 chemicals under the CWC, as follows, and mixtures in which at least one of the following chemicals constitutes 30 percent or more of the weight of the mixture:

d.1. (C.A.S. #1341–49–7) Ammonium hydrogen fluoride;

d.2. (C.A.S. #107–07–3) 2-Chloroethanol;

d.3. (C.A.S. #100–37–8) N,N-Diethylaminoethanol;

d.4. (C.A.S. #108–18–9) Di-isopropylamine;
d.5. (C.A.S. #124–40–3) Dimethylamine;
d.6. (C.A.S. #506–59–2) Dimethylamine hydrochloride;
d.7. (C.A.S. #7664–39–3) Hydrogen fluoride;
d.8. (C.A.S. #3554–74–3) 3-Hydroxyl-1-methylpiperidine;
d.9. (C.A.S. #76–89–1) Methyl benzilate;
d.10. (C.A.S. #1314–80–3) Phosphorus pentasulfide;
d.11. (C.A.S. #75–97–8) Pinacolone;
d.12. (C.A.S. #151–50–8) Potassium cyanide;
d.13. (C.A.S. #7789–23–3) Potassium fluoride;
d.14. (C.A.S. #7789–29–9) Potassium bifluoride;
d.15. (C.A.S. #3731–38–2) 3-Quinuclidone;
d.16. (C.A.S. #1333–83–1) Sodium bifluoride;
d.17. (C.A.S. #143–33–9) Sodium cyanide;
d.18. (C.A.S. #7681–49–4) Sodium fluoride;
d.19. (C.A.S. #1313–82–2) Sodium sulfide;
d.20. (C.A.S. #637–39–8) Triethanolamine hydrochloride;
d.21. (C.A.S. #116–17–6) Tri-isopropyl phosphite;
d.22. (C.A.S. #2465–65–8) O,O-diethyl phosphorothioate;
d.23. (C.A.S. #298–06–6) O,O-diethyl phosphorodithioate;
d.24. (C.A.S. #16893–85–9) Sodium hexafluorosilicate;
d.25. (C.A.S. #109–89–7) Diethylamine.

1C351 Human and animal pathogens and "toxins", as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: CB, CW, AT

Control(s)	Country chart (See Supp. No. 1 to part 738)
CB applies to entire entry	CB Column 1.

CW applies to 1C351.d.11 and d.12 and a license is required for CW reasons for all destinations, including Canada, as follows: CW applies to 1C351.d.11 for ricin in the form of (1) Ricinus Communis $Agglutinin_{II}$ (RCA_{II}), also known as ricin D or Ricinus Communis $Lectin_{III}$ (RCL_{III}) and (2) Ricinus Communis $Lectin_{IV}$ (RCL_{IV}), also known as ricin E. CW applies to 1C351.d.12 for saxitoxin identified by C.A.S. #35523–89–8. See §742.18 of the EAR for licensing information pertaining to chemicals subject to restriction pursuant to the Chemical Weapons Convention (CWC). The Commerce Country Chart is not designed to determine licensing requirements for items controlled for CW reasons.

Control(s)	Country chart (See Supp. No. 1 to part 738)
AT applies to entire entry	AT Column 1.

License Requirement Notes: 1. All vaccines and "immunotoxins" are excluded from the scope of this entry. Certain medical products and diagnostic and food testing kits that contain biological toxins controlled under paragraph (d) of this entry, with the exception of toxins controlled for CW reasons under d.11 and d.12, are excluded from the scope of this entry. Vaccines, "immunotoxins", certain medical products, and diagnostic and food testing kits excluded from the scope of this entry are controlled under ECCN 1C991.

2. For the purposes of this entry, only saxitoxin is controlled under paragraph d.12; other members of the paralytic shellfish poison family (e.g., neosaxitoxin) are designated EAR99.

3. Clostridium perfringens strains, other than the epsilon toxin-producing strains of Clostridium perfringens described in c.12, are excluded from the scope of this entry, since they may be used as positive control cultures for food testing and quality control.

4. Unless specified elsewhere in this ECCN 1C351 (e.g., in License Requirement Notes 1–3), this ECCN controls all biological agents and "toxins," regardless of quantity or attenuation, that are identified in the List of Items Controlled for this ECCN, including small quantities or attenuated strains of select biological agents or "toxins" that are excluded from the lists of select biological agents or "toxins" by the Animal and Plant Health Inspection Service (APHIS), U.S. Department of Agriculture, or the Centers for Disease Control and Prevention (CDC), U.S. Department of Health and Human Services, in accordance with their regulations in 9 CFR part 121 and 42 CFR part 73, respectively.

5. Biological agents and pathogens are controlled under this ECCN 1C351 when they are an isolated live culture of a pathogen agent, or a preparation of a toxin agent that has been isolated or extracted from any source or material, including living material that has been deliberately inoculated or contaminated with the agent. Isolated live cultures of a pathogen agent include live cultures in dormant form or in dried preparations, whether the agent is natural, enhanced or modified.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A
GBS: N/A
CIV: N/A

SPECIAL CONDITIONS FOR STA

STA: (1) Paragraph (c)(1) of License Exception STA (§740.20(c)(1)) may be used for items in 1C351.d.1 through 1C351.d.10 and 1C351.d.13 through 1C351.d.19. See §740.20(b)(2)(vi) for restrictions on the quantity of any one toxin that may be exported in a single shipment and the number of shipments that may be made to any one end user in a single calendar year. Also see the Automated Export System (AES) requirements in §758.1(b)(4) of the EAR. (2) Paragraph (c)(2) of License Exception STA (§740.20(c)(2) of the EAR) may not be used for any items in 1C351.

LIST OF ITEMS CONTROLLED

Related Controls: (1) Certain forms of ricin and saxitoxin in 1C351.d.11. and d.12 are CWC Schedule 1 chemicals (see §742.18 of the EAR). The U.S. Government must provide advance notification and annual reports to the OPCW of all exports of Schedule 1 chemicals. See §745.1 of the EAR for notification procedures. See 22 CFR part 121, Category XIV and §121.7 for CWC Schedule 1 chemicals that are ''subject to the ITAR.'' (2) The Animal and Plant Health Inspection Service (APHIS), U.S. Department of Agriculture, and the Centers for Disease Control and Prevention (CDC), U.S. Department of Health and Human Services, maintain controls on the possession, use, and transfer within the United States of certain items controlled by this ECCN (for APHIS, see 7 CFR 331.3(b), 9 CFR 121.3(b), and 9 CFR 121.4(b); for CDC, see 42 CFR 73.3(b) and 42 CFR 73.4(b)). (3) See 22 CFR part 121, Category XIV(b), for modified biological agents and biologically derived substances that are ''subject to the ITAR.''

Related Definitions: (1) For the purposes of this entry ''immunotoxin'' is defined as an antibody-toxin conjugate intended to destroy specific target cells (*e.g.*, tumor cells) that bear antigens homologous to the antibody. (2) For the purposes of this entry ''subunit'' is defined as a portion of the ''toxin''.

Items:

a. Viruses identified on the Australia Group (AG) ''List of Human and Animal Pathogens and Toxins for Export Control,'' as follows:

a.1. African horse sickness virus;

a.2. African swine fever virus;

a.3. Andes virus;

a.4. Avian influenza (AI) viruses identified as having high pathogenicity (HP), as follows:

a.4.a. AI viruses that have an intravenous pathogenicity index (IVPI) in 6-week-old chickens greater than 1.2; *or*

a.4.b. AI viruses that cause at least 75% mortality in 4- to 8-week-old chickens infected intravenously.

NOTE: Avian influenza (AI) viruses of the H5 or H7 subtype that do not have either of the characteristics described in 1C352.a.4 (specifically, 1C352.a.4.a or a.4.b) should be sequenced to determine whether multiple basic amino acids are present at the cleavage site of the haemagglutinin molecule (HA0). If the amino acid motif is similar to that observed for other HPAI isolates, then the isolate being tested should be considered as HPAI and the virus is controlled under 1C352.a.4.

a.5. Bluetongue virus;

a.6. Chapare virus;

a.7. Chikungunya virus;

a.8. Choclo virus;

a.9. Classical swine fever virus (Hog cholera virus);

a.10. Crimean-Congo hemorrhagic fever virus;

a.11. Dobrava-Belgrade virus;

a.12. Eastern equine encephalitis virus;

a.13. Ebolavirus (includes all members of the Ebolavirus genus);

a.14. Foot-and-mouth disease virus;

a.15. Goatpox virus;

a.16. Guanarito virus;

a.17. Hantaan virus;

a.18. Hendra virus (Equine morbillivirus);

a.19. Japanese encephalitis virus;

a.20. Junin virus;

a.21. Kyasanur Forest disease virus;

a.22. Laguna Negra virus;

a.23. Lassa virus;

a.24. Louping ill virus;

a.25. Lujo virus;

a.26. Lumpy skin disease virus;

a.27. Lymphocytic choriomeningitis virus;

a.28. Machupo virus;

a.29. Marburgvirus (includes all members of the Marburgvirus genus);

a.30. Monkeypox virus;

a.31. Murray Valley encephalitis virus;

a.32. Newcastle disease virus;

a.33. Nipah virus;

a.34. Omsk hemorrhagic fever virus;

a.35. Oropouche virus;

a.36. Peste-des-petits ruminants virus;

a.37. Porcine Teschovirus;

a.38. Powassan virus;

a.39. Rabies virus and all other members of the Lyssavirus genus;

a.40. Reconstructed 1918 influenza virus;

Technical Note: 1C351.a.40 includes reconstructed replication competent forms of the 1918 pandemic influenza virus containing any portion of the coding regions of all eight gene segments.

a.41. Rift Valley fever virus;

a.42. Rinderpest virus;

a.43. Rocio virus;

a.44. Sabia virus;

a.45. Seoul virus;

a.46. Severe acute respiratory syndrome-related coronavirus (SARS-related coronavirus);

a.47. Sheeppox virus;

a.48. Sin Nombre virus;

a.49. St. Louis encephalitis virus;

a.50. Suid herpesvirus 1 (Pseudorabies virus; Aujeszky's disease);

a.51. Swine vesicular disease virus;

a.52. Tick-borne encephalitis virus (Far Eastern subtype, formerly known as Russian Spring-Summer encephalitis virus—see 1C351.b.3 for Siberian subtype);

a.53. Variola virus;

a.54. Venezuelan equine encephalitis virus;

a.55. Vesicular stomatitis virus;

a.56. Western equine encephalitis virus; *or*

a.57. Yellow fever virus.

b. Viruses identified on the APHIS/CDC ''select agents'' lists (see Related Controls

paragraph #2 for this ECCN), but not identified on the Australia Group (AG) ''List of Human and Animal Pathogens and Toxins for Export Control,'' as follows:

b.1. [Reserved];

b.2. [Reserved]; *or*

b.3. Tick-borne encephalitis virus (Siberian subtype, formerly West Siberian virus—see 1C351.a.52 for Far Eastern subtype).

c. Bacteria identified on the Australia Group (AG) ''List of Human and Animal Pathogens and Toxins for Export Control,'' as follows:

c.1. Bacillus anthracis;

c.2. Brucella abortus;

c.3. Brucella melitensis;

c.4. Brucella suis;

c.5. Burkholderia mallei (Pseudomonas mallei);

c.6. Burkholderia pseudomallei (Pseudomonas pseudomallei);

c.7. Chlamydia psittaci (Chlamydophila psittaci);

c.8. Clostriduim argentinense (formerly known as Clostridium botulinum Type G), botulinum neurotoxin producing strains;

c.9. Clostridium baratii, botulinum neurotoxin producing strains;

c.10. Clostridium botulinum;

c.11. Clostridium butyricum, botulinum neurotoxin producing strains;

c.12. Clostridium perfringens, epsilon toxin producing types;

c.13. Coxiella burnetii;

c.14. Francisella tularensis;

c.15. Mycoplasma capricolum subspecies capripneumoniae (''strain F38'');

c.16. Mycoplasma mycoides subspecies mycoides SC (small colony) (a.k.a. contagious bovine pleuropneumonia);

c.17. Rickettsia prowazekii;

c.18. Salmonella enterica subspecies enterica serovar Typhi (Salmonella typhi);

c.19. Shiga toxin producing Escherichia coli (STEC) of serogroups O26, O45, O103, O104, O111, O121, O145, O157, and other shiga toxin producing serogroups;

Note: Shiga toxin producing Escherichia coli (STEC) includes, inter alia, enterohaemorrhagic E. coli (EHEC), verotoxin producing E. coli (VTEC) or verocytotoxin producing E. coli (VTEC).

c.20. Shigella dysenteriae;

c.21. Vibrio cholerae; *or*

c.22. Yersinia pestis.

d. ''Toxins'' identified on the Australia Group (AG) ''List of Human and Animal Pathogens and Toxins for Export Control,'' as follows, and ''subunits'' thereof:

d.1. Abrin;

d.2. Aflatoxins;

d.3. Botulinum toxins;

d.4. Cholera toxin;

d.5. Clostridium perfringens alpha, beta 1, beta 2, epsilon and iota toxins;

d.6. Conotoxins;

d.7. Diacetoxyscirpenol;

d.8. HT–2 toxin;

d.9. Microcystins (Cyanginosins);

d.10. Modeccin;

d.11. Ricin;

d.12. Saxitoxin;

d.13. Shiga toxins (shiga-like toxins, verotoxins, and verocytotoxins);

d.14. Staphylococcus aureus enterotoxins, hemolysin alpha toxin, and toxic shock syndrome toxin (formerly known as Staphylococcus enterotoxin F);

d.15. T–2 toxin;

d.16. Tetrodotoxin;

d.17. Viscumin (Viscum album lectin 1); *or*

d.18. Volkensin.

e. ''Fungi'', as follows:

e.1. Coccidioides immitis; *or*

e.2. Coccidioides posadasii.

1C353 Genetic elements and genetically modified organisms, as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: CB, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
CB applies to entire entry	CB Column 1
AT applies to entire entry	AT Column 1

LICENSE REQUIREMENTS NOTES: 1. Vaccines that contain genetic elements or genetically modified organisms identified in this ECCN are controlled by ECCN 1C991.

2. Unless specified elsewhere in this ECCN 1C353 (e.g., in License Requirement Note 1), this ECCN controls genetic elements or genetically modified organisms for all biological agents and ''toxins,'' regardless of quantity or attenuation, that are identified in the List of Items Controlled for this ECCN, including genetic elements or genetically modified organisms for attenuated strains of select biological agents or ''toxins'' that are excluded from the lists of select biological agents or ''toxins'' by the Animal and Plant Health Inspection Service (APHIS), U.S. Department of Agriculture, or the Centers for Disease Control and Prevention (CDC), U.S. Department of Health and Human Services, in accordance with the APHIS regulations in 7 CFR part 331 and 9 CFR part 121 and the CDC regulations in 42 CFR part 73.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: (1) The Animal and Plant Health Inspection Service (APHIS), U.S. Department of Agriculture, and the Centers for Disease Control and Prevention (CDC), U.S. Department of Health and Human Services, maintain controls on the possession, use, and transfer within the

United States of certain items controlled by this ECCN, including (but not limited to) certain genetic elements, recombinant nucleic acids, and recombinant organisms associated with the agents or toxins in ECCN 1C351 or 1C354 (for APHIS, see 7 CFR 331.3(c), 9 CFR 121.3(c), and 9 CFR 121.4(c); for CDC, see 42 CFR 73.3(c) and 42 CFR 73.4(c)). (2) See 22 CFR part 121, Category XIV(b), for modified biological agents and biologically derived substances that are subject to the export licensing jurisdiction of the U.S. Department of State, Directorate of Defense Trade Controls.

Related Definition: N/A

Items: a. Genetic elements, as follows:

a.1. Genetic elements that contain nucleic acid sequences associated with the pathogenicity of microorganisms controlled by 1C351.a to .c or 1C354;

a.2. Genetic elements that contain nucleic acid sequences coding for any of the ''toxins'' controlled by 1C351.d or ''sub-units of toxins'' thereof.

b. Genetically modified organisms, as follows:

b.1. Genetically modified organisms that contain nucleic acid sequences associated with the pathogenicity of microorganisms controlled by 1C351.a to .c or 1C354;

b.2. Genetically modified organisms that contain nucleic acid sequences coding for any of the ''toxins'' controlled by 1C351.d or ''sub-units of toxins'' thereof.

Technical Note: 1. ''Genetic elements'' include, inter alia, chromosomes, genomes, plasmids, transposons, and vectors, whether genetically modified or unmodified, or chemically synthesized in whole or in part.

2. This ECCN does not control nucleic acid sequences associated with the pathogenicity of enterohaemorrhagic Escherichia coli, serotype O157 and other verotoxin producing strains, except those nucleic acid sequences that contain coding for the verotoxin or its sub-units.

3. ''Nucleic acid sequences associated with the pathogenicity of any of the microorganisms controlled by 1C351.a to .c or 1C354'' means any sequence specific to the relevant controlled microorganism that:

a. In itself or through its transcribed or translated products represents a significant hazard to human, animal or plant health; or

b. Is known to enhance the ability of a microorganism controlled by 1C351.a to .c or 1C354, or any other organism into which it may be inserted or otherwise integrated, to cause serious harm to human, animal or plant health.

4. ''Genetically modified organisms'' include organisms in which the genetic material (nucleic acid sequences) has been altered in a way that does not occur naturally by mating and/or natural recombination, and encompasses those produced artificially in whole or in part.

1C354 Plant pathogens, as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: CB, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
CB applies to entire entry	CB Column 1
AT applies to entire entry	AT Column 1

License Requirements Notes: 1. All vaccines are excluded from the scope of this ECCN. See ECCN 1C991 for vaccines.

2. Unless specified elsewhere in this ECCN 1C354 (e.g., in License Requirement Note 1), this ECCN controls all biological agents, regardless of quantity or attenuation, that are identified in the List of Items Controlled for this ECCN, including small quantities or attenuated strains of select biological agents that are excluded from the list of PPQ select agents and ''toxins'' by the Animal and Plant Health Inspection Service (APHIS), U.S. Department of Agriculture, in accordance with their regulations in 7 CFR part 331.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: (1) The Animal and Plant Health Inspection Service (APHIS), U.S. Department of Agriculture, maintains controls on the possession, use, and transfer within the United States of certain items controlled by this ECCN (see 7 CFR 331.3(c), 9 CFR 121.3(c), and 9 CFR 121.4(c)). (2) See 22 CFR part 121, Category XIV(b), for modified biological agents and biologically derived substances that are subject to the export licensing jurisdiction of the U.S. Department of State, Directorate of Defense Trade Controls.

Related Definitions: N/A

Items: a. Bacteria, as follows:

a.1. *Xanthomonas albilineans;*

a.2. *Xanthomonas axonopodis* pv. *citri* (*Xanthomonas campestris* pv. *citri* A) (*Xanthomonas campestris* pv. *citri*);

a.3. *Xanthomonas* oryzae [this species of proteobacteria is identified on the APHIS ''select agents'' list (see Related Controls paragraph for this ECCN), but only the pathovar *Xanthomonas oryzae pv. oryzae* (syn. *Pseudomonas campestris* pv. *oryzae*) is identified on the Australia Group (AG) ''List of Plant Pathogens for Export Control'']

a.4. *Clavibacter michiganensis* subspecies *sepedonicus* (syn. *Corynebacterium michiganensis* subspecies *sepedonicum* or *Corynebacterium sepedonicum*);

a.5. *Ralstonia solanacearum*, race 3, biovar 2;

a.6. *Raythayibactor toxicus* [this bacterium is identified on the APHIS ''select agents'' list (see the Related Controls paragraph for

this ECCN), but is not identified on the Australia Group (AG) ''List of Plant Pathogens for Export Control''].

b. Fungi, as follows:

b.1. *Colletotrichum kahawae* (*Colletotrichum coffeanum* var. *virulans*);

b.2. *Cochliobolus miyabeanus* (*Helminthosporium oryzae*);

b.3. *Microcyclus ulei* (syn. *Dothidella ulei*);

b.4. *Puccinnia graminis* ssp. *graminis* var. *graminis*/*Puccinia graminis* ssp. *graminis* var. *stakmanii* (*Puccinia graminis* [syn. *Puccinia graminis* f. sp. *tritici*]);

b.5. *Puccinia striiformis* (syn. *Puccinia glumarum*);

b.6. *Magnaporthe oryzae* (*Pyricularia oryzae*);

b.7. *Peronosclerospora philippinensis* (*Peronosclerospora sacchari*);

b.8. *Sclerophthora rayssiae* var. *zeae;*

b.9. *Synchytrium endobioticum;*

b.10. *Tilletia indica;*

b.11. *Thecaphora solani;*

b.12. *Phoma glycinicola* (formerly *Pyrenochaeta glycines*) [this fungus is identified on the APHIS ''select agents'' list (see the Related Controls paragraph for this ECCN), but is not identified on the Australia Group (AG) ''List of Plant Pathogens for Export Control''].

c. Viruses, as follows:

c.1. Andean potato latent virus (Potato Andean latent tymovirus);

c.2. Potato spindle tuber viroid.

1C355 Chemical Weapons Convention (CWC) Schedule 2 and 3 chemicals and families of chemicals not controlled by ECCN 1C350 or "subject to the ITAR" (see 22 CFR parts 120 through 130) (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: CW, AT

Control(s): CW applies to entire entry. The Commerce Country Chart is not designed to determine licensing requirements for items controlled for CW reasons. A license is required to export or reexport CWC Schedule 2 chemicals and mixtures identified in 1C355.a to States not Party to the CWC (destinations not listed in Supplement No. 2 to part 745 of the EAR). A license is required to export CWC Schedule 3 chemicals and mixtures identified in 1C355.b to States not Party to the CWC, unless an End-Use Certificate issued by the government of the importing country is obtained by the exporter, prior to export. A license is required to reexport CWC Schedule 3 chemicals and mixtures identified in 1C355.b from a State not Party to the CWC to any other State not Party to the CWC. (See §742.18 of the EAR for license requirements and policies for toxic and precursor chemicals controlled for CW reasons.)

AT applies to entire entry. The Commerce Country Chart is not designed to determine licensing requirements for items controlled for AT reasons in 1C350. A license is required, for AT reasons, to export or reexport items controlled by 1C350 to a country in Country Group E:1 of Supplement No. 1 to part 740 of the EAR. (See part 742 of the EAR for additional information on the AT controls that apply to Iran, North Korea, Sudan, and Syria. See part 746 of the EAR for additional information on sanctions that apply to Iran, North Korea, and Syria.)

License Requirements Notes: 1. Mixtures: a. Mixtures containing toxic and precursor chemicals identified in ECCN 1C355, in concentrations that are below the control levels indicated in 1C355.a and .b, are controlled by ECCN 1C995 and are subject to the license requirements specified in that ECCN.

b. Mixtures containing chemicals identified in this entry are not controlled by ECCN 1C355 when the controlled chemical is a normal ingredient in consumer goods packaged for retail sale for personal use or packaged for individual use. Such consumer goods are classified as EAR99

Note to mixtures: Calculation of concentrations of CW-controlled chemicals:

a. Exclusion. No chemical may be added to the mixture (solution) for the sole purpose of circumventing the Export Administration Regulations;

b. Percent Weight Calculation.When calculating the percentage, by weight, of ingredients in a chemical mixture, include all ingredients of the mixture, including those that act as solvents.

2. Compounds: Compounds created with any chemicals identified in this ECCN 1C355 may be shipped NLR (No License Required), without obtaining an End-Use Certificate, unless those compounds are also identified in this entry or require a license for reasons set forth elsewhere in the EAR.

Technical Notes: For purposes of this entry, a ''mixture'' is defined as a solid, liquid or gaseous product made up of two or more ingredients that do not react together under normal storage conditions.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: See also ECCNs 1C350 1C351, 1C395, and 1C995. See §§742.18 and 745.2 of the EAR for End-Use Certification requirements.

Related Definitions: N/A

Items: a. CWC Schedule 2 chemicals and mixtures containing Schedule 2 chemicals:

a.1. Toxic chemicals, as follows, and mixtures containing toxic chemicals:

a.1.a. PFIB: 1,1,3,3,3-Pentafluoro-2-(trifluoromethyl)-1-propene (C.A.S. 382–21–8) and mixtures in which PFIB constitutes

more than 1 percent of the weight of the mixture;

a.1.b. [Reserved]

a.2. Precursor chemicals, as follows, and mixtures in which at least one of the following precursor chemicals constitutes more than 10 percent of the weight of the mixture:

a.2.a. Chemicals, except for those listed in Schedule 1, containing a phosphorus atom to which is bonded one methyl, ethyl, or propyl (normal or iso) group but not further carbon atoms.

Note: 1C355.a.2.a does not control Fonofos: O-Ethyl S-phenyl ethylphosphonothiolothionate (C.A.S. 944–22–9).

a.2.b. FAMILY: N,N-Dialkyl (Me, Et, n-Pr or i-Pr) phosphoramidic dihalides;

a.2.c. FAMILY: Dialkyl (Me, Et, n-Pr or i-Pr) N,N-Dialkyl (Me, Et, n-Pr, or i-Pr)-phosphoramidates;

a.2.d. FAMILY: N,N-Dialkyl (Me, Et, n-Pr or i-Pr) aminoethyl-2-chlorides and corresponding protonated salts;

a.2.e. FAMILY: N,N-Dialkyl (Me, Et, n-Pr or i-Pr) aminoethane-2-ols and corresponding protonated salts;

Note: 1C355.a.2.e. does not control N,N-Dimethylaminoethanol and corresponding protonated salts (C.A.S. 108–01–0) or N,N-Diethylaminoethanol and corresponding protonated salts (C.A.S. 100–37–8).

a.2.f. FAMILY: N,N-Dialkyl (Me, Et, n-Pr or i-Pr) aminoethane-2-thiols and corresponding protonated salts.

b. CWC Schedule 3 chemicals and mixtures containing Schedule 3 chemicals:

b.1. Toxic chemicals, as follows, and mixtures in which at least one of the following toxic chemicals constitutes 30 percent or more of the weight of the mixture:

b.1.a. Phosgene: Carbonyl dichloride (C.A.S. 75–44–5);

b.1.b. Cyanogen chloride (C.A.S. 506–77–4);

b.1.c. Hydrogen cyanide (C.A.S. 74–90–8);

b.1.d. Chloropicrin: Trichloronitromethane (C.A.S. 76–06–2).

b.2. Precursor chemicals, as follows, and mixtures in which at least one of the following precursor chemicals constitutes 30 percent or more of the weight of the mixture:

b.2.a. [Reserved];

b.2.b. Methyldiethanolamine (C.A.S. 105–59–9).

1C395 Mixtures and Medical, Analytical, Diagnostic, and Food Testing Kits Not Controlled by ECCN 1C350, as follows (See List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: CB, CW, AT

Control(s): CB applies to entire entry. The Commerce Country Chart is not designed to determine licensing requirements for items controlled for CB reasons in 1C395. A license is required, for CB reasons, to export or reexport mixtures controlled by 1C395.a and test kits controlled by 1C395.b to States not Party to the CWC (destinations not listed in Supplement No. 2 to part 745 of the EAR).

CW applies to entire entry. The Commerce Country Chart is not designed to determine licensing requirements for items controlled for CW reasons. A license is required for CW reasons, as follows, to States not Party to the CWC (destinations not listed in Supplement No. 2 to part 745 of the EAR): (1) Exports and reexports of mixtures controlled by 1C395.a, (2) exports and reexports of test kits controlled by 1C395.b that contain CWC Schedule 2 chemicals controlled by ECCN 1C350, (3) exports of test kits controlled by 1C395.b that contain CWC Schedule 3 chemicals controlled by ECCN 1C350, except that a license is not required, for CW reasons, to export test kits containing CWC Schedule 3 chemicals if an End-Use Certificate issued by the government of the importing country is obtained by the exporter prior to export, and (4) reexports from States not Party to the CWC of test kits controlled by 1C395.b that contain CWC Schedule 3 chemicals. (See §742.18 of the EAR for license requirements and policies for toxic and precursor chemicals controlled for CW reasons.)

AT applies to entire entry. The Commerce Country Chart is not designed to determine licensing requirements for items controlled for AT reasons in 1C395. A license is required, for AT reasons, to export or reexport items controlled by 1C395 to a country in Country Group E:1 of Supplement No. 1 to part 740 of the EAR. (See part 742 of the EAR for additional information on the AT controls that apply to Iran, North Korea, Sudan, and Syria. See part 746 of the EAR for additional information on sanctions that apply to Iran, North Korea, and Syria.)

License Requirements Notes: 1. 1C395.b does not control mixtures that contain precursor chemicals identified in ECCN 1C350.b or .c in concentrations below the control levels for mixtures indicated in 1C350.b or .c. 1C395.a and 1C995.a.1 and a.2.a control such mixtures, unless they are consumer goods, as described in License Requirements Note 2 of this ECCN.

2. This ECCN does not control mixtures when the controlled chemicals are normal ingredients in consumer goods packaged for retail sale for personal use. Such consumer goods are classified as EAR99.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: 1. ECCN 1C350 controls mixtures containing 30 percent or higher concentrations, by weight, of any single CWC Schedule 2 chemical identified in ECCN 1C350.b; ECCN 1C995 controls such mixtures

containing concentrations of 10 percent or less. 2. ECCN 1C995 controls ''medical, analytical, diagnostic, and food testing kits'' (as defined in the Related Definitions paragraph of this ECCN) that contain precursor chemicals listed in ECCN 1C350.d. ECCN 1C350 controls any such kits in which the amount of any single chemical listed in 1C350.b, .c, or .d exceeds 300 grams by weight.

Related Definitions: For the purpose of this entry, ''medical, analytical, diagnostic, and food testing kits'' are pre-packaged materials of defined composition that are specifically developed, packaged and marketed for medical, analytical, diagnostic, or public health purposes. Replacement reagents for medical, analytical, diagnostic, and food testing kits described in 1C395.b are controlled by ECCN 1C350 if the reagents contain at least one of the precursor chemicals identified in that ECCN in concentrations equal to or greater than the control levels for mixtures indicated in 1C350.b. or .c.

Items: a. Mixtures containing more than 10 percent, but less than 30 percent, by weight of any single CWC Schedule 2 chemical identified in ECCN 1C350.b (For controls on other mixtures containing these chemicals, see Note 1 in the Related Controls paragraph of this ECCN.).

b. ''Medical, analytical, diagnostic, and food testing kits'' (as defined in the Related Definitions for this ECCN) that contain CWC Schedule 2 or 3 chemicals controlled by ECCN 1C350.b or .c in an amount *not* exceeding 300 grams per chemical. (For controls on other such test kits containing these and other controlled chemicals, see Note 2 in the Related Controls paragraph of this ECCN.)

1C607 Tear Gases, Riot Control Agents and materials for the detection and decontamination of chemical warfare agents (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, RS, AT, UN

Control(s)	Country chart (see Supp. No. 1 to Part 738)
NS applies to entire entry, except 1C607.a.10, .a.11, .a.12, and .a.14.	NS Column 1.
RS applies to entire entry	RS Column 1.
AT applies to entire entry	AT Column 1.
UN applies to entire entry	See §746.1(b) for UN controls.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

SPECIAL CONDITIONS FOR STA

STA: Paragraph (c)(2) of License Exception STA (§740.20(c)(2) of the EAR) may not be used for any item in 1C607.

LIST OF ITEMS CONTROLLED

Related Controls: (1) See ECCN 1A984 for controls on other riot control agents. (2) See 22 CFR 121.1 (USML), Category XIV(b), for modified biological agents and biologically derived substances that are subject to the ITAR. (3) See 22 CFR 121.1 (USML), Category XIV(g), for ITAR controls on antibodies, recombinant protective antigens, polynucleotides, biopolymers or biocatalysts (including the expression vectors, viruses, plasmids, or cultures of specific cells used to produce them) that are ''specially designed'' for use with articles controlled under USML Category XIV(f). (4) See ECCN 0A919 for ''military commodities'' located and produced outside the United States that incorporate more than a *de minimis* amount of US-origin ''600 series'' controlled content.

Related Definitions: N/A

Items:

a. Tear gases and riot control agents including:

a.1. CA (Bromobenzyl cyanide) (CAS 5798–79–8);

a.2. CS (o-Chlorobenzylidenemalononitrile or o-Chlorobenzalmalononitrile) (CAS 2698–41–1);

a.3. CN (Phenylacyl chloride or w-Chloroacetophenone) (CAS 532–27–4);

a.4. CR (Dibenz-(b,f)-1,4-oxazephine) (CAS 257–07–8);

a.5. Adamsite (Diphenylamine chloroarsine or DM) (CAS 578–94–9);

a.6. N-Nonanoylmorpholine, (MPA) (CAS 5299–64–9);

a.7. Dibromodimethyl ether (CAS 4497–29–4);

a.8. Dichlorodimethyl ether (ClCi) (CAS 542–88–1);

a.9. Ethyldibromoarsine (CAS 683–43–2);

a.10. Bromo acetone (CAS 598–31–2);

a.11. Bromo methylethylketone (CAS 816–40–0);

a.12. Iodo acetone (CAS 3019–04–3);

a.13. Phenylcarbylamine chloride (CAS 622–44–6);

a.14. Ethyl iodoacetate (CAS 623–48–3);

Note to 1C607.a: ECCN 1C607.a. does not control the following: formulations containing 1% or less of CN or CS; individually packaged tear gases or riot control agents for personal self-defense purposes that are controlled by ECCN 1A984; or active constituent chemicals, and combinations thereof, identified and packaged for food production or medical purposes.

b. ''Biopolymers,'' not controlled by USML Category XIV(g) ''specially designed'' or processed for the detection or identification of chemical warfare agents specified by USML Category XIV(a), and the cultures of specific cells used to produce them.

c. ''Biocatalysts,'' and biological systems therefor, not controlled by USML Category XIV(g) ''specially designed'' for the decontamination or degradation of chemical warfare agents controlled in USML Category XIV (a), as follows:

c.1. ''Biocatalysts'' ''specially designed'' for the decontamination or degradation of chemical warfare agents controlled in USML Category XIV(a) resulting from directed laboratory selection or genetic manipulation of biological systems;

c.2. Biological systems containing the genetic information specific to the production of ''biocatalysts'' specified by 1C607.c.1, as follows:

c.2.a. ''Expression vectors;''

c.2.b. Viruses; *or*

c.2.c. Cultures of cells.

Note to 1C607.b and .c: The cultures of cells and biological systems are exclusive and these sub-items do not apply to cells or biological systems for civil purposes, such as agricultural, pharmaceutical, medical, veterinary, environmental, waste management, or in the food industry.

d. Chemical mixtures not controlled by USML Category XIV(f) ''specially designed'' for military use for the decontamination of objects contaminated with materials specified by USML Category XIV(a) or (b).

1C608 Energetic materials and related commodities (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, RS, MT, AT, UN

Control(s)	Country chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 1
RS applies to entire entry	RS Column 1
MT applies to 1C608.m	MT Column 1
AT applies to entire entry	AT Column 1
UN applies to entire entry	See §746.1(b) for UN controls

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: $1500

GBS: N/A

CIV: N/A

SPECIAL CONDITIONS FOR STA

STA: Paragraph (c)(2) of License Exception STA (§740.20(c)(2) of the EAR) may not be used for any item in 1C608.

LIST OF ITEMS CONTROLLED

Related Controls: (1) The EAR does not control devices or charges containing materials controlled by USML subparagraphs V(c)(6), V(h), or V(i). The USML controls devices containing such materials. (2) The USML in Categories III, IV, or V controls devices and charges in this entry if they contain materials controlled by Category V (other than slurries) and such materials can be easily extracted without destroying the device or charge. (3) See also explosives and other items enumerated in ECCNs 1A006, 1A007, 1A008, 1C011, 1C111, 1C239, and 1C992. (4) See ECCN 0A919 for foreign-made ''military commodities'' that incorporate more than a *de minimis* amount of US-origin ''600 series'' controlled content.

Related Definitions: (1) For purposes of this entry, the term 'controlled materials' means controlled energetic materials enumerated in ECCNs 1C011, 1C111, 1C239, 1C608, or USML Category V. (2) For the purposes of this entry, the term 'propellants' means substances or mixtures that react chemically to produce large volumes of hot gases at controlled rates to perform mechanical work.

Items:

a. 'Single base,' 'double base,' and 'triple base' 'propellants' having nitrocellulose with nitrogen content greater than 12.6% in the form of either:

a.1. 'Sheetstock' or 'carpet rolls;' or

a.2. Grains with diameter greater than 0.10 inches.

Note: This entry does not control 'propellant' grains used in shotgun shells, small arms cartridges, or rifle cartridges.

Technical Notes: 1. 'Sheetstock' is 'propellant' that has been manufactured in the form of a sheet suitable for further processing.

2. A 'carpet roll' is 'propellant' that has been manufactured as a sheet, often cut to a desired width, and subsequently rolled up (like a carpet).

3. 'Single base' is 'propellant' which consists mostly of nitrocellulose.

4. 'Double base' 'propellant' consist mostly of nitrocellulose and nitroglycerine.

5. 'Triple base' consists mostly of nitrocellulose, nitroglycerine, and nitroguanidine. Such 'propellants' contain other materials, such as resins or stabilizers, that could include carbon, salts, burn rate modifiers, nitrodiphenylamine, wax, polyethylene glycol (PEG), polyglycol adipate (PGA).

b. Shock tubes containing greater than 0.064 kg per meter (300 grains per foot), but not more than 0.1 kg per meter (470 grains per foot) of 'controlled materials.'

c. Cartridge power devices containing greater than 0.70 kg, but not more than 1.0 kg of 'controlled materials.'

d. Detonators (electric or nonelectric) and ''specially designed'' assemblies therefor containing greater than 0.01 kg, but not more than 0.1 kg of 'controlled materials.'

e. Igniters not controlled by USML Categories III or IV that contain greater than 0.01 kg, but not more than 0.1 kg of 'controlled materials.'

f. Oil well cartridges containing greater than 0.015 kg, but not more than 0.1 kg of 'controlled materials.'

g. Commercial cast or pressed boosters containing greater than 1.0 kg, but not more than 5.0 kg of 'controlled materials.'

h. Commercial prefabricated slurries and emulsions containing greater than 10 kg and less than or equal to thirty-five percent by weight of USML 'controlled materials.'

i. [Reserved]

j. ''Pyrotechnic'' devices ''specially designed'' for commercial purposes (*e.g.*, theatrical stages, motion picture special effects, and fireworks displays), and containing greater than 3.0 kg, but not more than 5.0 kg of 'controlled materials.'

k. Other commercial explosive devices or charges ''specially designed'' for commercial applications, not controlled by 1C608.c through .g above, containing greater than 1.0 kg, but not more than 5.0 kg of 'controlled materials.'

l. Propyleneimine (2 methylaziridine) (C.A.S. #75–55–8).

m. Any oxidizer or 'mixture' thereof that is a compound composed of fluorine and any of the following: Other halogens, oxygen, or nitrogen.

Note 1 to 1C608.m: Nitrogen trifluoride (NF3)(CAS 7783–54–2) in a gaseous state is controlled under ECCN 1C992 and not under ECCN 1C608.m.

Note 2 to 1C608.m: Chlorine trifluoride (ClF3)(CAS 7790–91–2) is controlled under ECCN 1C111.a.3.f and not under ECCN 1C608.m.

Note 3 to 1C608.m: Oxygen difluoride (OF2) is controlled under USML Category V.d.10 (see 22 CFR 121.1) and not under ECCN 1C608.m.

Note to 1C608.l and m: If a chemical in ECCN 1C608.l or .m is incorporated into a commercial charge or device described in ECCN 1C608.c through .k or in ECCN 1C992, the classification of the commercial charge or device applies to the item.

Technical Note to 1C608.m: 'Mixture' refers to a composition of two or more substances with at least one substance being enumerated in 1C011, 1C111, 1C239, 1C608, USML Category V, or elsewhere on the USML.

n. Any explosives, 'propellants,' oxidizers, ''pyrotechnics,'' fuels, binders, or additives that are ''specially designed'' for military application and not enumerated or otherwise described in USML Category V or elsewhere on the USML.

1C980 Inorganic chemicals listed in Supplement No. 1 to part 754 of the EAR that were produced or derived from the Naval Petroleum Reserves (NPR) or became available for export as a result of an exchange of any NPR produced or derived commodities.

LICENSE REQUIREMENTS

Reason for Control: SS

Control(s): SS applies to entire entry. For licensing requirements (and possible License Exceptions) proceed directly to part 754 of the EAR. The Commerce Country Chart is not designed to determine licensing requirements for items controlled for SS reasons

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading.

1C982 Other petroleum products listed in Supplement No. 1 to part 754 of the EAR that were produced or derived from the Naval Petroleum Reserves (NPR) or became available for export as a result of an exchange of any NPR produced or derived commodities.

LICENSE REQUIREMENTS

Reason for Control: SS

Control(s): SS applies to entire entry. For licensing requirements (and possible License Exceptions) proceed directly to part 754 of the EAR. The Commerce Country Chart is not designed to determine licensing requirements for items controlled for SS reasons

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading

1C983 Natural gas liquids and other natural gas derivatives listed in Supplement No. 1 to part 754 of the EAR that were produced or derived from the Naval Petroleum Reserves (NPR) or became available for export as a result of an exchange of any NPR produced or derived commodities.

LICENSE REQUIREMENTS

Reason for Control: SS

Control(s): SS applies to entire entry. For licensing requirements (and possible License Exceptions) proceed directly to part 754 of the EAR. The Commerce Country Chart is not designed to determine licensing requirements for items controlled for SS reasons.

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading

1C984 Manufactured gas and synthetic natural gas (except when commingled with natural gas and thus subject to export authorization from the Department of Energy) listed in Supplement No. 1 to part 754 of the EAR that were produced or derived from the Naval Petroleum Reserves (NPR) or became available for export as a result of an exchange of any NPR produced or derived commodities.

LICENSE REQUIREMENTS

Reason for Control: SS

Control(s): SS applies to entire entry. For licensing requirements (and possible License Exceptions) proceed directly to part 754 of the EAR. The Commerce Country Chart is

not designed to determine licensing requirements for items controlled for SS reasons

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading

1C988 Unprocessed western red cedar (thuja plicata) logs and timber, and rough, dressed and worked lumber containing wane, as described in § 754.4 of the EAR.

LICENSE REQUIREMENTS

Reason for Control: SS

Control(s): SS applies to entire entry. For licensing requirements (and possible License Exceptions) proceed directly to part 754 of the EAR. The Commerce Country Chart is not designed to determine licensing requirements for items controlled for SS reasons

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: For a non-exhaustive list of 10-digit Harmonized System-based Schedule B commodity numbers that may apply to unprocessed Western Red Cedar products subject to § 754.4 and related definitions, see Supplement No. 2 to part 754 of the EAR.

Items: The list of items controlled is contained in the ECCN heading

1C990 Fibrous and filamentary materials, not controlled by 1C010 or 1C210, for use in "composite" structures and with a specific modulus of 3.18×10^6 m or greater and a specific tensile strength of 7.62×10^4 m or greater.

LICENSE REQUIREMENTS

Reason for Control: AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading

1C991 Vaccines, immunotoxins, medical products, diagnostic and food testing kits, as follows (see List of Items controlled).

LICENSE REQUIREMENTS

Reason for Control: CB, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
CB applies to 1C991.d	CB Column 3
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: (1) Medical products containing ricin or saxitoxin, as follows, are controlled for CW reasons under ECCN 1C351:

(a) Ricinus Communis $Agglutinin_{II}$ (RCA_{II}), also known as ricin D, or Ricinus Communis $Lectin_{III}$ (RCL_{III});

(b) Ricinus Communis $Lectin_{IV}$ (RCL_{IV}), also known as ricin E; or

(c) Saxitoxin identified by C.A.S. #35523–89–8.

(2) The export of a "medical product" that is an "Investigational New Drug" (IND), as defined in 21 CFR 312.3, is subject to certain U.S. Food and Drug Administration (FDA) requirements that are independent of the export requirements specified in this ECCN or elsewhere in the EAR. These FDA requirements are described in 21 CFR 312.110 and must be satisfied in addition to any requirements specified in the EAR.

(3) Also see 21 CFR 314.410 for FDA requirements concerning exports of new drugs and new drug substances.

Related Definitions: For the purpose of this entry, "immunotoxin" is defined as an antibody-toxin conjugate intended to destroy specific target cells (e.g., tumor cells) that bear antigens homologous to the antibody. For the purpose of this entry, "medical products" are: (1) Pharmaceutical formulations designed for testing and human administration in the treatment of medical conditions, (2) prepackaged for distribution as clinical or medical products, and (3) approved by the U.S. Food and Drug Administration either to be marketed as clinical or medical products or for use as an "Investigational New Drug" (IND) (see 21 CFR part 312). For the purpose of this entry, "diagnostic and food testing kits" are specifically developed, packaged and marketed for diagnostic or public health purposes. Biological toxins in any other configuration, including bulk shipments, or for any other end-uses are controlled by ECCN 1C351. For the purpose of this entry, "vaccine" is defined as a medicinal (or veterinary) product in a pharmaceutical formulation, approved by the U.S. Food and Drug Administration or the U.S. Department of Agriculture to be marketed as a medical (or veterinary) product

or for use in clinical trials, that is intended to stimulate a protective immunological response in humans or animals in order to prevent disease in those to whom or to which it is administered.

Items: a. Vaccines against items controlled by ECCN 1C351, 1C353 or 1C354.

b. Immunotoxins containing items controlled by 1C351.d;

c. Medical products containing botulinum toxins controlled by ECCN 1C351.d.3 or conotoxins controlled by ECCN 1C351.d.6;

d. Medical products containing items controlled by ECCN 1C351.d (except botulinum toxins controlled by ECCN 1C351.d.3, conotoxins controlled by ECCN 1C351.d.6, and items controlled for CW reasons under 1C351.d.11 or .d.12);

e. Diagnostic and food testing kits containing items controlled by ECCN 1C351.d (except items controlled for CW reasons under ECCN 1C351.d.11 or .d.12).

1C992 Commercial charges and devices containing energetic materials, n.e.s. and nitrogen trifluoride in a gaseous state (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: AT, RS, foreign policy

Control(s)	Country chart (see Supp. No. 1 to part 738)
AT applies to entire entry	AT Column 1
RS applies to entire entry	A license is required for items controlled by this entry for export or reexport to Iraq and transfer within Iraq for regional stability reasons. The Commerce Country Chart is not designed to determine RS license requirements for this entry. See §§742.6 and 746.3 of the EAR for additional information.
Russian industry sector sanctions apply to entire entry.	See §746.5 for specific license requirements and license review policy.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: (1) Commercial charges and devices containing USML controlled energetic materials that exceed the quantities noted or that are not covered by this entry are controlled under ECCN 1C608. (2) Nitrogen trifluoride when not in a gaseous state is controlled under ECCN 1C608.

Related Definitions: (1) Items controlled by this entry ECCN 1C992 are those materials not controlled by ECCN 1C608 and not ''subject to the ITAR'' (see 22 CFR Parts 120 through 130). (2) For purposes of this entry, the term ''controlled materials'' means controlled energetic materials (see ECCNs 1C011, 1C111, 1C239, and 1C608; see also 22 CFR 121.1, Category V). (3) The individual USML controlled energetic materials, even when compounded with other materials, remain ''subject to the ITAR'' when not incorporated into explosive devices or charges controlled by this entry. (4) Commercial prefabricated slurries and emulsions containing greater than 35% of USML controlled energetic materials are ''subject to the ITAR'' (see 22 CFR parts 120 through 130). (5) For purposes of this entry, the mass of aluminum powder, potassium perchlorate, and any of the substances listed in the note to the USML (see 22 CFR 121.12) (such as ammonium pictrate, black powder, etc.) contained in commercial explosive devices and in the charges are omitted when determining the total mass of controlled material.

Items: a. Shaped charges ''specially designed'' for oil well operations, utilizing one charge functioning along a single axis, that upon detonation produce a hole, and

a.1. Contain any formulation of controlled materials;

a.2. Have only a uniform shaped conical liner with an included angle of 90 degrees or less;

a.3. Contain more than 0.010 kg but less than or equal to 0.090 kg of controlled materials; and

a.4. Have a diameter not exceeding 4.5 inches;

b. Shaped charges ''specially designed'' for oil well operations containing less than or equal to 0.010 kg of controlled materials;

c. Detonation cord or shock tubes containing less than or equal to 0.064 kg per meter (300 grains per foot) of controlled materials;

d. Cartridge power devices, that contain less than or equal to 0.70 kg of controlled materials in the deflagration material;

e. Detonators (electric or nonelectric) and assemblies thereof, that contain less than or equal to 0.01 kg of controlled materials;

f. Igniters, that contain less than or equal to 0.01 kg of controlled materials;

g. Oil well cartridges, that contain less than or equal to 0.015 kg of controlled energetic materials;

h. Commercial cast or pressed boosters containing less than or equal to 1.0 kg of controlled materials;

i. Commercial prefabricated slurries and emulsions containing less than or equal to 10.0 kg and less than or equal to thirty-five percent by weight of USML controlled materials;

j. Cutters and severing tools containing less than or equal to 3.5 kg of controlled materials;

k. Pyrotechnic devices when designed exclusively for commercial purposes (*e.g.*, theatrical stages, motion picture special effects,

and fireworks displays) and containing less than or equal to 3.0 kg of controlled materials; or

l. Other commercial explosive devices and charges not controlled by 1C992.a through .k containing less than or equal to 1.0 kg of controlled materials.

Note: 1C992.l includes automotive safety devices; extinguishing systems; cartridges for riveting guns; explosive charges for agricultural, oil and gas operations, sporting goods, commercial mining, or public works purposes; and delay tubes used in the assembly of commercial explosive devices.

m. Nitrogen trifluoride (NF_3) in a gaseous state.

1C995 Mixtures not controlled by ECCN 1C350, ECCN 1C355 or ECCN 1C395 that contain chemicals controlled by ECCN 1C350 or ECCN 1C355 and medical, analytical, diagnostic, and food testing kits not controlled by ECCN 1C350 or ECCN 1C395 that contain chemicals controlled by ECCN 1C350.d, as follows (see List of Items controlled).

LICENSE REQUIREMENTS

Reason for Control: AT, RS

Control(s)	Country Chart (See Supp. No. 1 to part 738)
AT applies to entire entry	AT Column 1.
RS applies to entire entry.	A license is required for items controlled by this entry for export or reexport to Iraq or transfer within Iraq for regional stability reasons. The Commerce Country Chart is not designed to determine RS license requirements for this entry. See §§742.6 and 746.3 of the EAR for additional information.

License Requirement Notes: 1. This ECCN does not control mixtures containing less than 0.5% of any single toxic or precursor chemical controlled by ECCN 1C350.b, .c, or .d or ECCN 1C355 as unavoidable by-products or impurities. Such mixtures are classified as EAR99.

2. 1C995.c does not control mixtures that contain precursor chemicals identified in 1C350.d in concentrations below the levels for mixtures indicated in 1C350.d. 1C995.a.2.b controls such mixtures, unless they are consumer goods as described in License Requirements Note 3 of this ECCN.

3. This ECCN does not control mixtures when the controlled chemicals are normal ingredients in consumer goods packaged for retail sale for personal use. Such consumer goods are classified as EAR99.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: 1. ECCN 1C350 controls mixtures containing 30 percent or higher concentrations of any single CWC Schedule 2 chemical identified in ECCN 1C350.b. ECCN 1C395 controls mixtures containing concentrations of more than 10 percent, but less than 30 percent, of any single CWC Schedule 2 chemical identified in ECCN 1C350.b. 2. ECCN 1C350 controls mixtures containing chemicals identified in ECCN 1C350.c or .d that exceed the concentration levels indicated in 1C995.a.2. 3. ECCN 1C355 controls mixtures containing chemicals identified in ECCN 1C355 that exceed the concentration levels indicated in 1C995.b. 4. ECCN 1C395 controls ''medical, analytical, diagnostic, and food testing kits'' (as defined in the Related Controls paragraph of this ECCN) that contain CWC Schedule 2 or 3 chemicals listed in 1C350.b or .c. ECCN 1C350 controls any such testing kits in which the amount of any single chemical listed in 1C350.b, .c., or .d exceeds 300 grams by weight.

Related Definitions: For the purpose of this entry, ''medical, analytical, diagnostic, and food testing kits'' are pre-packaged materials of defined composition that are specifically developed, packaged and marketed for medical, analytical, diagnostic, or public health purposes. Replacement reagents for medical, analytical, diagnostic, and food testing kits described in 1C995.c are controlled by ECCN 1C350 if the reagents contain at least one of the precursor chemicals identified in that ECCN in concentrations equal to or greater than the control levels for mixtures indicated in 1C350.d.

Items: a. Mixtures containing the following concentrations of precursor chemicals controlled by ECCN 1C350 (For controls on other mixtures containing these chemicals, see Notes 1 and 2 in the Related Controls paragraph of this ECCN.):

a.1. Mixtures containing 10 percent or less, by weight, of any single CWC Schedule 2 chemical controlled by ECCN 1C350.b;

a.2. Mixtures containing less than 30 percent, by weight, of:

a.2.a. Any single CWC Schedule 3 chemical controlled by ECCN 1C350.c; or

a.2.b. Any single precursor chemical controlled by ECCN 1C350.d.

b. Mixtures containing the following concentrations of toxic or precursor chemicals controlled by ECCN 1C355 (For controls on other mixtures containing these chemicals, see Note 3 in the Related Controls paragraph of this ECCN.):

b.1. Mixtures containing the following concentrations of CWC Schedule 2 chemicals controlled by ECCN 1C355.a:

b.1.a. Mixtures containing 1 percent or less, by weight, of any single CWC Schedule

2 chemical controlled by ECCN 1C355.a.1 (i.e., mixtures containing PFIB); or

b.1.b. Mixtures containing 10 percent or less, by weight, of any single CWC Schedule 2 chemical controlled by 1C355.a.2;

b.2. Mixtures containing less than 30 percent, by weight, of any single CWC Schedule 3 chemical controlled by ECCN 1C355.b.

c. ''Medical, analytical, diagnostic, and food testing kits'' (as defined in the Related Definitions for this ECCN) that contain precursor chemicals controlled by ECCN 1C350.d in an amount *not* exceeding 300 grams per chemical. (For controls on other such test kits containing these and other controlled chemicals, see Note 4 in the Related Controls paragraph of this ECCN.)

1C996 Hydraulic fluids containing synthetic hydrocarbon oils, not controlled by 1C006, having all the following characteristics (see List of Items Controlled).

LICENSE REQUIREMENTS

*Reason for Control:*AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: a. A flash point exceeding 477 K (204 °C);

b. A pour point at 239 K (−-34 °C) or less;

c. A viscosity index of 75 or more; *and*

d. A thermal stability at 616 K (343 °C).

1C997 Ammonium Nitrate, Including Fertilizers and Fertilizer Blends Containing More Than 15% by Weight Ammonium Nitrate, Except Liquid Fertilizers (Containing Any Amount of Ammonium Nitrate) or Dry Fertilizers Containing Less Than 15% by Weight Ammonium Nitrate.

LICENSE REQUIREMENTS

Reason for Control: AT, RS

Control(s)	Country Chart (See Supp. No. 1 to part 738)
AT applies to entire entry	AT Column 1.
RS applies to entire entry.	A license is required for items controlled by this entry for export or reexport to Iraq or transfer within Iraq for regional stability reasons. The Commerce Country Chart is not designed to determine RS license requirements for this entry. See §§742.6 and 746.3 of the EAR for additional information.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading.

1C998 Non-fluorinated polymeric substances, not controlled by 1C008, as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
AT applies to entire entry	AT Column 1.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: a. Polyarylene ether ketones, as follows:

a.1 Polyether ether ketone (PEEK);

a.2. Polyether ketone ketone (PEKK);

a.3. Polyether ketone (PEK);

a.4. Polyether ketone ether ketone ketone (PEKEKK);

b. [Reserved]

1C999 Specific Materials, n.e.s., as Follows (See List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: AT, RS

Control(s)	Country Chart (See Supp. No. 1 to part 738)
AT applies to entire entry	A license is required for items controlled by this entry to North Korea for anti-terrorism reasons. The Commerce Country Chart is not designed to determine AT license requirements for this entry. See §742.19 of the EAR for additional information.
RS applies to entire entry.	A license is required for items controlled by this entry for export or reexport to Iraq or transfer within Iraq for regional stability reasons. The Commerce Country Chart is not designed to determine RS license requirements for this entry. See §§742.6 and 746.3 of the EAR for additional information.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
LVS: N/A
GBS: N/A
CIV: N/A
LIST OF ITEMS CONTROLLED
Related Controls: See also 1C236.
Related Definitions: N/A
Items: a. Hardened steel and tungsten carbide precision ball bearings (3mm or greater diameter);
b. 304 and 316 stainless steel plate, n.e.s.;
c. Monel plate;
d. Tributyl phosphate;
e. Nitric acid in concentrations of 20 weight percent or greater;
f. Fluorine;
g. Alpha-emitting radionuclides, n.e.s.

D. ''SOFTWARE''

1D001 "Software" "specially designed" or modified for the "development", "production" or "use" of equipment controlled by 1B001 to 1B003.

LICENSE REQUIREMENTS
Reason for Control: NS, MT, NP, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 1
MT applies to ''software'' for the ''development,'' ''production,'' operation, or maintenance of items controlled by 1B001 for MT reasons.	MT Column 1
NP applies to ''software'' for the ''development'', ''production'' or ''use'' of items controlled by 1B001 for NP reasons.	NP Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
CIV: Yes, except N/A for MT
TSR: Yes, except N/A for MT
LIST OF ITEMS CONTROLLED
Related Controls: (1) See ECCNs 1E101 (''use'') and 1E102 (''development'' and ''production'') for technology for items controlled by this entry. (2) Also see 1D002, 1D101, 1D201, and 1D999.
Related Definitions: N/A
Items: The list of items controlled is contained in the ECCN heading.

1D002 "Software" for the "development" of organic "matrix", metal "matrix" or carbon "matrix" laminates or "composites".

LICENSE REQUIREMENTS
Reason for Control: NS, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 1
AT applies to entire entry	AT Column 1

REPORTING REQUIREMENTS See §743.1 of the EAR for reporting requirements for exports under License Exceptions, and Validated End-User authorizations
LIST OF ITEMS CONTROLLED
LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
CIV: Yes
TSR: Yes
SPECIAL CONDITIONS FOR STA
STA: License Exception STA may not be used to ship or transmit ''software'' for the ''development'' of organic ''matrix'', metal ''matrix'' or carbon ''matrix'' laminates or ''composites'' specified in ECCN 1A002 to any of the destinations listed in Country Group A:6 (See Supplement No. 1 to part 740 of the EAR).
Related Controls: ''Software'' for items controlled by *1A102* are ''subject to the ITAR'' (see 22 CFR parts 120 through 130).
Related Definitions: N/A
Items: The list of items controlled is contained in the ECCN heading

1D003 "Software" "specially designed" or modified to enable equipment to perform the functions of equipment controlled under 1A004.c or 1A004.d.

LICENSE REQUIREMENTS
Reason for Control: NS, RS, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 2.
RS applies to software for equipment controlled by 1A004.d.	RS Column 2.
AT applies to entire entry	AT Column 1.

REPORTING REQUIREMENTS See §743.1 of the EAR for reporting requirements for exports under License Exceptions, and Validated End-User authorizations
SPECIAL CONDITIONS FOR STA
LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
CIV: N/A
TSR: N/A
LIST OF ITEMS CONTROLLED
Related Controls: N/A
Related Definitions: N/A
Items: The list of items controlled is contained in the ECCN heading.

1D018 "Software" "specially designed" or modified for the "development," "production," or "use" of items controlled by 1B018.b.
LICENSE REQUIREMENTS
Reason for Control: NS, MT, AT, UN

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 1.
MT applies to "software" for the "development", "production", operation, or maintenance of items controlled by 1B018 for MT reasons.	
AT applies to entire entry	AT Column 1.
UN applies to entire entry	See §746.1(b) for UN controls.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
CIV: N/A
TSR: N/A
LIST OF ITEMS CONTROLLED
Related Controls: See ECCN 1D608 for ''software'' for items classified under ECCN 1B608 that, immediately prior to July 1, 2014, were classified under 1B018.a.
Related Definitions: N/A
Items: The list of items controlled is contained in the ECCN heading

1D101 "Software" "specially designed" or modified for the operation or maintenance of commodities controlled by 1B101, 1B102, 1B115, 1B117, 1B118, or 1B119.
LICENSE REQUIREMENTS
Reason for Control: MT, NP, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
MT applies to entire entry	MT Column 1.
NP applies to "software" for the "use" of items controlled by 1B101.a.	NP Column 1.
AT applies to entire entry	AT Column 1.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
CIV: N/A
TSR: N/A
LIST OF ITEMS CONTROLLED
Related Controls: See ECCNs 1E101 (''use'') and 1E102 (''development'' and ''production'') for technology for items controlled by this entry.
Related Definitions: N/A
Items: The list of items controlled is contained in the ECCN heading.

1D103 "Software" "specially designed" for reduced observables such as radar reflectivity, ultraviolet/infrared signatures and acoustic signatures, for applications usable in rockets, missiles, or unmanned aerial vehicles capable of delivering at least a 500 kg payload to a "range" equal to or greater than 300 km and their complete subsystems.
LICENSE REQUIREMENTS
Reason for Control: MT, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
MT applies to entire entry	MT Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
CIV: N/A
TSR: N/A
LIST OF ITEMS CONTROLLED
Related Controls: (1) This entry includes ''software'' ''specially designed'' for analysis of signature reduction. (2) For software that meets the definition of defense articles under 22 CFR 120.3 of the International Traffic in Arms Regulations (ITAR), which describes similar software that are ''subject to the ITAR'' (see 22 CFR parts 120 through 130, including USML Category XIII).
Related Definitions: N/A
Items: The list of items controlled is contained in the ECCN heading

1D201 "Software" "specially designed" or modified for the "use" of items controlled by 1B201.
LICENSE REQUIREMENTS
Reason for Control: NP, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NP applies to entire entry	NP Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
CIV: N/A
TSR: N/A
LIST OF ITEMS CONTROLLED
Related Controls: See ECCNs 1E201 (''use'') and 1E203 (''development'' and ''production'')

for technology for items controlled by this entry.

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading.

1D390 "Software" for process control that is specifically configured to control or initiate "production" of chemicals controlled by 1C350.

LICENSE REQUIREMENTS

Reason for Control: CB, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
CB applies to entire entry	CB Column 2
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: See Section 772.1 of the EAR for the definitions of ''software,'' ''program,'' and ''microprogram.''

Items: The list of items controlled is contained in the ECCN heading

1D607 "Software" "specially designed" for the "development," "production," operation, or maintenance of items controlled by 1A607, 1B607 or 1C607 (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, RS, AT, UN

Control(s)	Country chart (see Supp. No. 1 to Part 738)
NS applies to entire entry, except "software" for 1C607.a.10, .a.11, .a.12, and .a.14.	NS Column 1.
RS applies to entire entry	RS Column 1.
AT applies to entire entry	AT Column 1.
UN applies to entire entry	See §746.1(b) for UN controls.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

SPECIAL CONDITIONS FOR STA

STA: Paragraph (c)(2) of License Exception STA (§740.20(c)(2) of the EAR) may not be used for any item in 1D607.

LIST OF ITEMS CONTROLLED

Related Controls: (1) ''Software'' directly related to articles enumerated or otherwise described in USML Category XIV is subject to the ITAR (see 22 CFR §121.1, Category XIV(m)). ''Software'' controlled by USML Category XIV(m) includes ''software'' directly related to any equipment containing reagents, algorithms, coefficients, software, libraries, spectral databases, or alarm set point levels developed under U.S. Department of Defense contract or funding for the detection, identification, warning or monitoring of items controlled in paragraphs (a) or (b) of USML Category XIV, or for chemical or biological agents specified by U.S. Department of Defense funding or contract. (2) See ECCN 0A919 for ''military commodities'' located and produced outside the United States that incorporate more than a *de minimis* amount of US-origin ''600 series'' controlled content.

Related Definitions: N/A

Items:

a. ''Software'' ''specially designed'' for the ''development,'' ''production,'' operation, or maintenance of commodities controlled by ECCN 1A607, 1B607, or 1C607.

b. [RESERVED]

1D608 "Software" "specially designed" for the "development," "production," operation, or maintenance of commodities controlled by 1B608 or 1C608 (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, RS, MT, AT, UN

Control(s)	Country chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 1
RS applies to entire entry	RS Column 1
MT applies to "software" "specially designed" for the "use" of 1B608 equipment in the "production" and handling of materials controlled by 1C608.m or MT articles in USML Category V.	MT Column 1
AT applies to entire entry	AT Column 1
UN applies to entire entry	See §746.1(b) for UN controls

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

SPECIAL CONDITIONS FOR STA

STA: Paragraph (c)(2) of License Exception STA (§740.20(c)(2) of the EAR) may not be used for any item in 1D608.

LIST OF ITEMS CONTROLLED

Related Controls: (1) Software directly related to articles enumerated or otherwise described in USML Categories III, IV or V is subject to the controls of those USML Categories, respectively. (2) See ECCN 0A919 for foreign-made ''military commodities'' that incorporate more than a *de minimis* amount of U.S.-origin ''600 series'' items.

Related Definitions: N/A

Items: a. ''Software'' ''specially designed'' for the ''development,'' ''production,'' operation, or maintenance of commodities controlled by ECCN 1B608 or 1C608.

b. [Reserved]

1D613 "Software" "specially designed" for the "development," "production," operation, or maintenance of commodities controlled by 1A613 or 1B613, as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, RS, AT, UN

Control(s)	Country chart (See Supp. No. 1 to part 738)
NS applies to entire entry except 1D613.y.	NS Column 1
RS applies to entire entry except 1D613.y.	RS Column 1
AT applies to entire entry	AT Column 1
UN applies to entire entry, except 1D613.y.	See §746.1(b) for UN controls

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

SPECIAL CONDITIONS FOR STA

STA: Paragraph (c)(2) of License Exception STA (§740.20(c)(2) of the EAR) may not be used for any ''software'' in 1D613.

LIST OF ITEMS CONTROLLED

Related Controls: (1) ''Software'' directly related to articles controlled by USML Category X is subject to the control of USML paragraph X(e) of the ITAR. (2) See ECCN 0A919 for foreign-made ''military commodities'' that incorporate more than a *de minimis* amount of US-origin ''600 series'' controlled content.

Related Definitions: N/A

Items: a. ''Software'' (other than ''software'' controlled in paragraph .y of this entry) ''specially designed'' for the ''development,'' ''production,'' operation, or maintenance of commodities controlled by ECCNs 1A613 (except 1A613.y) or 1B613 (except 1B613.y).

b. to x. [Reserved]

y. Specific ''software'' ''specially designed'' for the ''production,'' ''development,'' operation, or maintenance of commodities controlled by ECCN 1A613.y.

1D993 "Software" "specially designed" for the "development," "production" or "use" of materials controlled by 1C210.b, or 1C990.

LICENSE REQUIREMENTS

Reason for Control: AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading

1D999 Specific Software, n.e.s., as Follows (See List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: AT

Control(s):

Country Chart. AT applies to entire entry. A license is required for items controlled by this entry to North Korea for anti-terrorism reasons. The Commerce Country Chart is not designed to determine AT licensing requirements for this entry. See §742.19 of the EAR for additional information.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

LIST OF ITEMS CONTROLLED

Related Controls: See also 1B999.

Related Definitions: N/A

Items: a. Software ''specially designed'' for industrial process control hardware/systems controlled by 1B999, n.e.s.;

b. Software ''specially designed'' for equipment for the production of structural composites, fibers, prepregs and preforms controlled by 1B999, n.e.s.

E. ''TECHNOLOGY''

1E001 "Technology" according to the General Technology Note for the "development" or "production" of items controlled by 1A002, 1A003, 1A004, 1A005, 1A006.b, 1A007, 1A008 1A101, 1B (except 1B608, 1B613 or 1B999), or 1C (except 1C355, 1C608, 1C980 to 1C984, 1C988, 1C990, 1C991, 1C995 to 1C999).

LICENSE REQUIREMENTS

Reason for Control: NS, MT, NP, CB, RS, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to ''technology'' for items controlled by 1A002, 1A003, 1A005, 1A006.b, 1A007, 1B001 to 1B003, 1B018, 1C001 to 1C011, or 1C018.	NS Column 1.
NS applies to ''technology'' for items controlled by 1A004.	NS Column 2.
MT applies to ''technology'' for items controlled by 1A101, 1B001, 1B101, 1B102, 1B115 to 1B119, 1C001, 1C007, 1C011, 1C101, 1C102, 1C107, 1C111, 1C116, 1C117, or 1C118 for MT reasons.	MT Column 1.

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NP applies to "technology" for items controlled by 1A002, 1A007, 1B001, 1B101, 1B201, 1B225, 1B226, 1B228 to 1B234, 1C002, 1C010, 1C111, 1C116, 1C202, 1C210, 1C216, 1C225 to 1C237, or 1C239 to 1C241 for NP reasons.	NP Column 1.
CB applies to "technology" for items controlled by 1C351, 1C353, or 1C354.	CB Column 1.
CB applies to "technology" for materials controlled by 1C350 and for chemical detection systems and dedicated detectors therefor, in 1A004.c, that also have the technical characteristics described in 2B351.a.	CB Column 2.
RS applies to technology for equipment controlled in 1A004.d.	RS Column 2.
AT applies to entire entry	AT Column 1.

REPORTING REQUIREMENTS See §743.1 of the EAR for reporting requirements for exports under License Exceptions, and Validated End-User authorizations

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: Yes, except for the following:

(1) Items controlled for MT reasons; or (2) Exports and reexports to destinations outside of those countries listed in Country Group A:5 (See Supplement No. 1 to part 740 of the EAR) of ''technology'' for the ''development'' or production'' of the following:

(a) Items controlled by 1C001; or

(b) Items controlled by 1A002.a which are composite structures or laminates having an organic ''matrix'' and being made from materials listed under 1C010.c or 1C010.d.

SPECIAL CONDITIONS FOR STA

STA: License Exception STA may not be used to ship or transmit ''technology'' according to the General Technology Note for the ''development'' or ''production'' of equipment and materials specified by ECCNs 1A002, 1C001, 1C007.c or d, or 1C010.c or d to any of the destinations listed in Country Group A:6 (See Supplement No. 1 to part 740 of the EAR).

LIST OF ITEMS CONTROLLED

Related Controls: (1) Also see ECCNs 1E101, 1E201, and 1E202. (2) See ECCN 1E608 for ''technology'' for items classified under ECCN 1B608 or 1C608 that, immediately prior to July 1, 2014, were classified under ECCN 1B018.a or 1C018.b through .m (note that ECCN 1E001 controls ''development'' and ''production'' ''technology'' for chlorine trifluoride controlled by ECCN 1C111.a.3.f—see ECCN 1E101 for controls on ''use'' ''technology'' for chlorine trifluoride). (3) See ECCN 1E002.g for control libraries (parametric technical databases) ''specially designed'' or modified to enable equipment to perform the functions of equipment controlled under ECCN 1A004.c (Nuclear, biological and chemical (NBC) detection systems) or ECCN 1A004.d (Equipment for detecting or identifying explosives residues). (4) ''Technology'' for lithium isotope separation (see related ECCN 1B233) and ''technology'' for items described in ECCN 1C012 are subject to the export licensing authority of the Department of Energy (see 10 CFR Part 810). (5) ''Technology'' for items described in ECCN 1A102 is ''subject to the ITAR'' (see 22 CFR Parts 120 through 130).

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading.

1E002 Other "technology" as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, MT, NP, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry, except 1E002.g.	NS Column 1.
NS applies to 1E002.g	NS Column 2.
MT applies to 1E002.e	MT Column 1.
NP applies to "technology" for items controlled by 1A002 for NP reasons.	NP Column 1.
AT applies to entire entry	AT Column 1.

REPORTING REQUIREMENTS See §743.1 of the EAR for reporting requirements for exports under License Exceptions, and Validated End-User authorizations

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: Yes, except for 1E002.e and .f.

License Exceptions Note: License Exception TSU is not applicable for the repair ''technology'' controlled by 1E002.e or .f, see supplement no. 2 to this part.

SPECIAL CONDITIONS FOR STA

STA: License Exception STA may not be used to ship or transmit any item in 1E002.e or .f to any of the destinations listed in Country Group A:6 (See Supplement No. 1 to part 740 of the EAR).

LIST OF ITEMS CONTROLLED

Related Controls: See also 1E001, 1E101,1E102, 1E202, and 1E994 for ''technology'' related to 1E002.e or .f.

Related Definitions: N/A

Items: a. ''Technology'' for the ''development'' or ''production'' of polybenzothiazoles or polybenzoxazoles;

b. ''Technology'' for the ''development'' or ''production'' of fluoroelastomer compounds containing at least one vinylether monomer;

c. ''Technology'' for the design or ''production'' of the following ceramic powders or non-''composite'' ceramic materials:

c.1. Ceramic powders having all of the following:

c.1.a. Any of the following compositions:

c.1.a.1. Single or complex oxides of zirconium and complex oxides of silicon or aluminum;

c.1.a.2. Single nitrides of boron (cubic crystalline forms);

c.1.a.3. Single or complex carbides of silicon or boron; or

c.1.a.4. Single or complex nitrides of silicon;

c.1.b. Any of the following total metallic impurities (excluding intentional additions):

c.1.b.1. Less than 1,000 ppm for single oxides or carbides; or

c.1.b.2. Less than 5,000 ppm for complex compounds or single nitrides; and

c.1.c. Being any of the following:

c.1.c.1. Zirconia (CAS 1314–23–4) with an average particle size equal to or less than 1 μm and no more than 10% of the particles larger than 5 μm; *or*

c.1.c.2. Other ceramic powders with an average particle size equal to or less than 5 μm and no more than 10% of the particles larger than 10 μm;

c.2. Non-''composite'' ceramic materials composed of the materials described in 1E002.c.1;

Note: 1E002.c.2 does not control technology for the design or production of abrasives.

d. [Reserved]

e. ''Technology'' for the installation, maintenance or repair of materials controlled by 1C001;

f. ''Technology'' for the repair of ''composite'' structures, laminates or materials controlled by 1A002, 1C007.c or 1C007.d;

Note: 1E002.f does not control ''technology'' for the repair of ''civil aircraft'' structures using carbon ''fibrous or filamentary materials'' and epoxy resins, contained in ''aircraft'' manufacturers' manuals.

g. ''Libraries'' ''specially designed'' or modified to enable equipment to perform the functions of equipment controlled under 1A004.c or 1A004.d.

1E101 "Technology", in accordance with the General Technology Note, for the "use" of commodities and "software" controlled by 1A101, 1A102, 1B001, 1B101, 1B102, 1B115 to 1B119, 1C001, 1C007, 1C011, 1C101, 1C107, 1C111, 1C116, 1C117, 1C118, 1D001, 1D101, or 1D103.

LICENSE REQUIREMENTS

Reason for Control: MT, NP, AT

Control(s)	Country chart (See Supp. No. 1 to part 738)
MT applies to "technology" for commodities and software controlled by 1A101, 1A102, 1B001, 1B101, 1B102, 1B115 to 1B119, 1C001, 1C007, 1C011, 1C101, 1C107, 1C111, 1C116, 1C117, 1C118, 1D001, 1D101, or 1D103 for MT reasons.	MT Column 1
NP applies to "technology" for items controlled by 1B001, 1B101, 1C111, 1C116, 1D001, or 1D101 for NP reasons.	NP Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

LIST OF ITEMS CONTROLLED

Related Controls: ''Technology'' for items controlled by *1A102* is ''subject to the ITAR'' (see 22 CFR parts 120 through 130).

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading.

1E102 "Technology" according to the General Technology Note for the "development" of software controlled by 1D001, 1D101 or 1D103.

LICENSE REQUIREMENTS

Reason for Control: MT, NP, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
MT applies to entire entry	MT Column 1.
NP applies to "technology" for items controlled by 1D001 and 1D101 for NP reasons.	NP Column 1.
AT applies to entire entry	AT Column 1.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

LIST OF ITEMS CONTROLLED

Related Controls: This entry includes databases ''specially designed'' for analysis of signature reduction.

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading.

1E103 "Technical data" (including processing conditions) and procedures for the regulation of temperature, pressure or atmosphere in autoclaves or hydroclaves, when used for the "production" of "composites" or partially processed "composites", usable for equipment or materials

specified in 1C007, 1C102, 1C107, 1C116, 1C117, 1C118, 9A110, and 9C110.

LICENSE REQUIREMENTS

Reason for Control: MT, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
MT applies to entire entry	MT Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

LIST OF ITEMS CONTROLLED

Related Controls: See also 1E203

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading.

1E104 "Technology" for the "production" of pyrolytically derived materials formed on a mold, mandrel or other substrate from precursor gases which decompose in the 1,573 K (1,300 °C) to 3,173 K (2,900 °C) temperature range at pressures of 130 Pa (1 mm Hg) to 20 kPa (150 mm Hg), including "technology" for the composition of precursor gases, flow-rates and process control schedules and parameters.

LICENSE REQUIREMENTS

Reason for Control: MT, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
MT applies to entire entry	MT Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading.

1E201 "Technology" according to the General Technology Note for the "use" of items controlled by 1A002, 1A007, 1A202, 1A225 to 1A227, 1B201, 1B225, 1B226, 1B228 to 1B232, 1B233.b, 1B234, 1C002.b.3 and b.4, 1C010.a, 1C010.b, 1C010.e.1, 1C202, 1C210, 1C216, 1C225 to 1C237, 1C239 to 1C241 or 1D201.

Reason for Control: NP, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NP applies to entire entry, for items controlled for NP reasons.	NP Column 1.
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading.

1E202 "Technology" according to the General Technology Note for the "development" or "production" of goods controlled by 1A202 or 1A225 to 1A227.

LICENSE REQUIREMENTS

Reason for Control: NP, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NP applies to entire entry	NP Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading.

1E203 "Technology" according to the General Technology Note for the "development" or "production" of "software" controlled by 1D201.

LICENSE REQUIREMENTS

Reason for Control: NP, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NP applies to entire entry	NP Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading.

1E350 "Technology" according to the "General Technology Note" for facilities designed or intended to produce chemicals controlled by 1C350.

LICENSE REQUIREMENTS

Reason for Control: CB, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
CB applies to entire entry	CB Column 2

Control(s)	Country Chart (See Supp. No. 1 to part 738)
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
CIV: N/A
TSR: N/A
LIST OF ITEMS CONTROLLED
Related Controls: N/A
Related Definitions: N/A
Items: The list of items controlled is contained in the ECCN heading.

1E351 "Technology" according to the General Technology Note for the disposal of chemicals or microbiological materials controlled by 1C350, 1C351, 1C353, or 1C354.

LICENSE REQUIREMENTS
Reason for Control: CB, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
CB applies to "technology" for items controlled by 1C351, 1C353, or 1C354.	CB Column 1.
CB applies to "technology" for the disposal of items controlled by 1C350.	CB Column 2.
AT applies to entire entry	AT Column 1.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
CIV: N/A
TSR: N/A
LIST OF ITEMS CONTROLLED
Related Controls: N/A
Related Definitions: N/A
Items: The list of items controlled is contained in the ECCN heading.

1E355 Technology for the production of Chemical Weapons Convention (CWC) Schedule 2 and 3 chemicals, as follows (see List of Items Controlled):

LICENSE REQUIREMENTS
Reason for Control: CW, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
CW applies to entire entry. A license is required for CW reasons to CWC non-States Parties (destinations not listed in Supplement No. 2 to part 745), except for Israel and Taiwan. See §742.18 of the EAR. The Commerce Country Chart is not designed to determine licensing requirements for items controlled for CW reasons.	
AT applies to the entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
TSR: N/A
CIV: N/A
LIST OF ITEMS CONTROLLED
Related Controls: N/A
Related Definitions: N/A
Items: a. Technology for the production of the following CWC Schedule 2 toxic chemicals:

a.1. PFIB: 1,1,3,3,3-Pentafluoro-2-(trifluoromethyl)-1-propene (382–21–8);

a.2. [Reserved]

b. Technology for the production of the following CWC Schedule 3 toxic chemicals:

b.1. Phosgene: Carbonyl dichloride (75–44–5);

b.2. Cyanogen chloride (506–77–4);

b.3. Hydrogen cyanide (74–90–8).

1E607 "Technology" "required" for the "development," "production," operation, installation, maintenance, repair, overhaul, or refurbishing of items controlled by ECCN 1A607, 1B607, 1C607, or 1D607 (see List of Items Controlled).

LICENSE REQUIREMENTS
Reason for Control: NS, RS, AT, UN

Control(s)	Country chart (see Supp. No. 1 to Part 738)
NS applies to entire entry, except "technology" for 1C607.a.10, .a.11, .a.12, and .a.14 and for 1D607 "software" therefor.	NS Column 1.
RS applies to entire entry	RS Column 1.
AT applies to entire entry	AT Column 1.
UN applies to entire entry	See §746.1(b) for UN controls.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
CIV: N/A
TSR: N/A
SPECIAL CONDITIONS FOR STA
STA: Paragraph (c)(2) of License Exception STA (§740.20(c)(2) of the EAR) may not be used for any item in 1E607.
LIST OF ITEMS CONTROLLED
Related Controls: Technical data directly related to defense articles enumerated or otherwise described in USML Category XIV are subject to the ITAR (see 22 CFR §121.1, Category XIV(m)). Technical data controlled by USML Category XIV(m) include technical data directly related to any equipment containing reagents, algorithms, coefficients, software, libraries, spectral databases, or alarm set point levels developed under U.S. Department of Defense contract or funding for the detection, identification, warning or monitoring of items controlled in paragraphs (a) or (b) of

USML Category XIV, or for chemical or biological agents specified by U.S. Department of Defense funding or contract.

Related Definitions: N/A

Items:

a. ''Technology'' ''required'' for the ''development,'' ''production,'' operation, installation, maintenance, repair, overhaul, or refurbishing of items controlled by ECCN 1A607, 1B607, 1C607 or 1D607.

Note to 1E607.a: ECCN 1E607.a includes ''technology'' ''required'' exclusively for the incorporation of ''biocatalysts'' controlled by ECCN 1C607.c.1 into military carrier substances or military material.

b. [RESERVED]

1E608 "Technology" "required" for the "development," "production," operation, installation, maintenance, repair, overhaul, or refurbishing of equipment controlled in 1B608 or materials controlled by 1C608 (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, RS, MT, AT, UN

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 1
RS applies to entire entry	RS Column 1
MT applies to "technology" "required" for 1C608.m.	MT Column 1
AT applies to entire entry	AT Column 1
UN applies to entire entry	See §746.1(b) for UN controls

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

SPECIAL CONDITIONS FOR STA

STA: Paragraph (c)(2) of License Exception STA (§740.20(c)(2) of the EAR) may not be used for any item in 1E608.

LIST OF ITEMS CONTROLLED

Related Controls: (1) Technical data directly related to articles enumerated or otherwise described in USML Categories III, IV, or V are subject to the controls of those USML Categories, respectively.

(2) ''Technology'' for chlorine trifluoride is controlled under ECCN 1E001 (''development'' and ''production'') and ECCN 1E101 (''use'').

Related Definitions: N/A

Items: a. ''Technology'' ''required'' for the ''development,'' ''production,'' operation, installation, maintenance, repair, overhaul, or refurbishing of equipment controlled by ECCN 1B608 or materials controlled by ECCN 1C608.

b. ''Technology'' ''required'' for the ''development'' or ''production'' of nitrocellulose with nitrogen content over 12.6% and at rates greater than 2000 pounds per hour.

c. ''Technology'' ''required'' for the ''development'' or ''production'' of nitrate esters (e.g., nitroglycerine) at rates greater than 2000 pounds per hour.

1E613 "Technology" "required" for the "development," "production," operation, installation, maintenance, repair, overhaul, or refurbishing of commodities controlled by 1A613 or 1B613 or "software" controlled by 1D613, as follows (see list of items controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, RS, AT, UN

Control(s)	Country chart (See Supp. No. 1 to part 738)
NS applies to entire entry except 1E613.y.	NS Column 1
RS applies to entire entry except 1E613.y.	RS Column 1
AT applies to entire entry	AT Column 1
UN applies to entire entry, except 1E613.y.	See §746.1(b) for UN controls

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

SPECIAL CONDITIONS FOR STA

STA: Paragraph (c)(2) of License Exception STA (§740.20(c)(2) of the EAR) may not be used for any ''technology'' in 1E613.

LIST OF ITEMS CONTROLLED

Related Controls: Technical data directly related to articles controlled by USML Category X are subject to the control of USML paragraph X(e) of the ITAR.

Related Definitions: N/A

Items: a. ''Technology'' (other than ''technology'' controlled by paragraph .y of this entry) ''required'' for the ''development,'' ''production,'' operation, installation, maintenance, repair, overhaul, or refurbishing of commodities or ''software'' controlled by ECCNs 1A613 (except 1A613.y), 1B613 or 1D613 (except 1D613.y).

b. through x. [Reserved]

y. Specific ''technology'' ''required'' for the ''production,'' ''development,'' operation, installation, maintenance, repair, overhaul, or refurbishing of commodities or software controlled by ECCN 1A613.y or 1D613.y.

1E994 "Technology" for the "development", "production", or "use" of fibrous and filamentary materials controlled by 1C990.

LICENSE REQUIREMENTS

Reason for Control: AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
CIV: N/A
TSR: N/A
LIST OF ITEMS CONTROLLED
Related Controls: N/A
Related Definitions: N/A
Items: The list of items controlled is contained in the ECCN heading.

1E998 "Technology" for the "development" or "production" of processing equipment controlled by 1B999, and materials controlled by 1C996, 1C997, 1C998, or 1C999.
LICENSE REQUIREMENTS
Reason for Control: AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
AT applies to entire entry	AT Column 1.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
CIV: N/A
TSR: N/A
LIST OF ITEMS CONTROLLED
Related Controls: N/A
Related Definitions: N/A
Items: The list of items controlled is contained in the ECCN heading.

EAR99 Items Subject to the EAR That Are *Not* Elsewhere Specified in This CCL Category *or* in Any Other Category in the CCL Are Designated by the Number EAR99.

ANNEX TO CATEGORY 1

List of Explosives (See ECCNs 1A004 and 1A008)

1. ADNBF (aminodinitrobenzofuroxan or 7-amino-4,6-dinitrobenzofurazane-1-oxide) (CAS 97096–78–1);
2. BNCP (cis-bis (5-nitrotetrazolato) tetra amine-cobalt (III) perchlorate) (CAS 117412–28–9);
3. CL–14 (diamino dinitrobenzofuroxan or 5,7-diamino-4,6-dinitrobenzofurazane-1-oxide) (CAS 117907–74–1);
4. CL–20 (HNIW or Hexanitrohexaazaisowurtzitane) (CAS 135285–90–4); chlathrates of CL–20;
5. CP (2-(5-cyanotetrazolato) penta amine-cobalt (III) perchlorate) (CAS 70247–32–4);
6. DADE (1,1-diamino-2,2-dinitroethylene, FOX7) (CAS 145250–81–3);
7. DATB (diaminotrinitrobenzene) (CAS 1630–08–6);
8. DDFP (1,4-dinitrodifurazanopiperazine);
9. DDPO (2,6-diamino-3,5-dinitropyrazine-1-oxide, PZO) (CAS 194486–77–6);
10. DIPAM (3,3′-diamino-2,2′,4,4′,6,6′-hexanitrobiphenyl or dipicramide) (CAS 17215–44–0);
11. DNGU (DINGU or dinitroglycoluril) (CAS 55510–04–8);
12. Furazans as follows:
a. DAAOF (diaminoazoxyfurazan);
b. DAAzF (diaminoazofurazan) (CAS 78644–90–3);
13. HMX and derivatives, as follows:
a. HMX (Cyclotetramethylenetetranitramine, octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazine, 1,3,5,7-tetranitro-1,3,5,7-tetraza-cyclooctane, octogen or octogene) (CAS 2691–41–0);
b. difluoroaminated analogs of HMX;
c. K–55 (2,4,6,8-tetranitro-2,4,6,8-tetraazabicyclo [3,3,0]-octanone-3, tetranitrosemiglycouril or keto-bicyclic HMX) (CAS 130256–72–3);
14. HNAD (hexanitroadamantane) (CAS 143850–71–9);
15. HNS (hexanitrostilbene) (CAS 20062–22–0);
16. Imidazoles as follows:
a. BNNII (Octahydro-2,5-bis(nitroimino)imidazo [4,5-d]imidazole);
b. DNI (2,4-dinitroimidazole) (CAS 5213–49–0);
c. FDIA (1-fluoro-2,4-dinitroimidazole);
d. NTDNIA (N-(2-nitrotriazolo)-2,4-dinitroimidazole);
e. PTIA (1-picryl-2,4,5-trinitroimidazole);
17. NTNMH (1-(2-nitrotriazolo)-2-dinitromethylene hydrazine);
18. NTO (ONTA or 3-nitro-1,2,4-triazol-5-one) (CAS 932–64–9);
19. Polynitrocubanes with more than four nitro groups;
20. PYX (2,6-Bis(picrylamino)-3,5-dinitropyridine) (CAS 38082–89–2);
21. RDX and derivatives, as follows:
a. RDX (cyclotrimethylenetrinitramine, cyclonite, T4, hexahydro-1,3,5-trinitro-1,3,5-triazine, 1,3,5-trinitro-1,3,5-triaza-cyclohexane, hexogen or hexogene) (CAS 121–82–4);
b. Keto-RDX (K–6 or 2,4,6-trinitro-2,4,6-triazacyclohexanone) (CAS 115029–35–1);
22. TAGN (triaminoguanidinenitrate) (CAS 4000–16–2);
23. TATB (triaminotrinitrobenzene) (CAS 3058–38–6);
24. TEDDZ (3,3,7,7-tetrabis(difluoroamine) octahydro-1,5-dinitro-1,5-diazocine);
25. Tetrazoles as follows:
a. NTAT (nitrotriazol aminotetrazole);
b. NTNT (1-N-(2-nitrotriazolo)-4-nitrotetrazole);
26. Tetryl (trinitrophenylmethylnitramine) (CAS 479–45–8);
27. TNAD (1,4,5,8-tetranitro-1,4,5,8-tetraazadecalin) (CAS 135877–16–6);
28. TNAZ (1,3,3-trinitroazetidine) (CAS 97645–24–4);
29. TNGU (SORGUYL or tetranitroglycoluril) (CAS 55510–03–7);
30. TNP (1,4,5,8-tetranitro-pyridazino[4,5-d]pyridazine) (CAS 229176–04–9);
31. Triazines as follows:

a. DNAM (2-oxy-4,6-dinitroamino-s-triazine) (CAS 19899–80–0);

b. NNHT (2-nitroimino-5-nitro-hexahydro-1,3,5-triazine) (CAS 130400–13–4);

32. Triazoles as follows:

a. 5-azido-2-nitrotriazole;

b. ADHTDN (4-amino-3,5-dihydrazino-1,2,4-triazole dinitramide) (CAS 1614–08–0);

c. ADNT (1-amino-3,5-dinitro-1,2,4-triazole);

d. BDNTA ((bis dinitrotriazole)amine);

e. DBT (3,3′-dinitro-5,5-bi-1,2,4-triazole) (CAS 30003–46–4);

f. DNBT (dinitrobistriazole) (CAS 70890–46–9);

g. [Reserved]

h. NTDNT (1-N-(2-nitrotriazolo) 3,5-dinitrotriazole);

i. PDNT (1-picryl-3,5-dinitrotriazole);

j. TACOT (tetranitrobenzotriazolobenzotriazole) (CAS 25243–36–1);

33. ''Explosives'' not listed elsewhere in this list having a detonation velocity exceeding 8,700 m/s, at maximum density, or a detonation pressure exceeding 34 GPa (340 kbar);

34. [Reserved]

35. Nitrocellulose (containing more than 12.5% nitrogen) (CAS 9004–70–0);

36. Nitroglycol (CAS 628–96–6);

37. Pentaerythritol tetranitrate (PETN) (CAS 78–11–5);

38. Picryl chloride (CAS 88–88–0);

39. 2,4,6–Trinitrotoluene (TNT) (CAS 118–96–7);

40. Nitroglycerine (NG) (CAS 55–63–0);

41. Triacetone Triperoxide (TATP) (CAS 17088–37–8);

42. Guanidine nitrate (CAS 506–93–4);

43. Nitroguanidine (NQ) (CAS 556–88–7);

44. DNAN (2,4-dinitroanisole) (CAS 119–27–7);

45. TEX (4,10-Dinitro-2,6,8,12-tetraoxa-4,10-diazaisowurtzitane);

46. GUDN (Guanylurea dinitramide) FOX–12 (CAS 217464–38–5);

47. Tetrazines as follows:

a. BTAT (Bis(2,2,2-trinitroethyl)-3,6-diaminotetrazine);

b. LAX–112 (3,6-diamino-1,2,4,5-tetrazine-1,4-dioxide);

48. Energetic ionic materials melting between 343 K (70 °C) and 373 K (100 °C) and with detonation velocity exceeding 6,800 m/s or detonation pressure exceeding 18 GPa (180 kbar);

49. BTNEN (Bis(2,2,2-trinitroethyl)-nitramine) (CAS 19836–28–3).

CATEGORY 2—MATERIALS PROCESSING

Note: For quiet running bearings, see the U.S. Munitions List.

A. ''END ITEMS'', ''EQUIPMENT'', ''ACCESSORIES'', ''ATTACHMENTS'', ''PARTS'', ''COMPONENTS'' AND ''SYSTEMS''

2A001 Anti-friction bearings and bearing systems, as follows, (see List of Items Controlled) and "components" therefor.

Reason for Control: NS, MT, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 2.
MT applies to radial ball bearings having all tolerances specified in accordance with ISO 492 Tolerance Class 2 (or ANSI/ABMA Std 20 Tolerance Class ABEC–9, or other national equivalents) or better and having all the following characteristics: An inner ring bore diameter between 12 and 50 mm; an outer ring outside diameter between 25 and 100 mm; and a width between 10 and 20 mm..	MT Column 1.
AT applies to entire entry	AT Column 1.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: $3000, N/A for MT

GBS: Yes, for 2A001.a, N/A for MT

CIV: Yes, for 2A001.a, N/A for MT

LIST OF ITEMS CONTROLLED

Related Controls: (1) See also 2A991. (2) Quiet running bearings are ''subject to the ITAR'' (see 22 CFR parts 120 through 130).

Items:

Note 1: 2A001.a includes ball bearing and roller elements ''specially designed'' for the items specified therein.

Note 2: 2A001 does not control balls with tolerances specified by the manufacturer in accordance with ISO 3290 as grade 5 or worse.

a. Ball bearings and solid roller bearings, having all tolerances specified by the manufacturer in accordance with ISO 492 Tolerance Class 4 (or national equivalents), or better, and having both rings and rolling elements (ISO 5593), made from monel or beryllium;

Note: 2A001.a does not control tapered roller bearings.

b. [Reserved]

c. Active magnetic bearing systems using any of the following:

c.1. Materials with flux densities of 2.0 T or greater and yield strengths greater than 414 MPa;

c.2. All-electromagnetic 3D homopolar bias designs for actuators; or

c.3. High temperature (450 K (177 °C) and above) position sensors.

2A101 Radial Ball Bearings Having all Tolerances Specified in Accordance With

ISO 492 Tolerance Class 2 (or ANSI/ABMA Std 20 Tolerance Class ABEC-9 or Other National Equivalents), or Better and Having all the Following Characteristics (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: MT, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
MT applies to entire entry	MT Column 1.
AT applies to entire entry	AT Column 1.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: See ECCN 2A001.

Related Definitions: N/A

Items: a. An inner ring bore diameter between 12 and 50 mm;

b. An outer ring outside diameter between 25 and 100 mm; and

c. A width between 10 and 20 mm.

2A225 Crucibles made of materials resistant to liquid actinide metals (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NP, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NP applies to entire entry	NP Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: See ECCNs 2E001 (''development''), 2E002 (''production''), and 2E201 (''use'') for technology for items controlled under this entry.

Related Definitions: N/A

Items: a. Crucibles having both of the following characteristics:

a.1. A volume of between 150 cm^3 (150 ml) and 8,000 cm^3 (8 liters); *and*

a.2. Made of, or coated with, any of the following materials, or combination of the following materials, having an overall impurity level of 2% or less by weight:

a.2.a. Calcium fluoride (CaF_2);

a.2.b. Calcium zirconate (metazirconate) ($CaZrO_3$);

a.2.c. Cerium sulphide (Ce_2S_3);

a.2.d. Erbium oxide (erbia) (Er_2O_3);

a.2.e. Hafnium oxide (hafnia) (HfO_2);

a.2.f. Magnesium oxide (MgO);

a.2.g. Nitrided niobium-titanium-tungsten alloy (approximately 50% Nb, 30% Ti, 20% W);

a.2.h. Yttrium oxide (yttria) (Y_2O_3); *or*

a.2.i. Zirconium oxide (zirconia) (ZrO_2);

b. Crucibles having both of the following characteristics:

b.1. A volume of between 50 cm^3 (50 ml) and 2,000 cm^3 (2 liters); *and*

b.2. Made of or lined with tantalum, having a purity of 99.9% or greater by weight;

c. Crucibles having all of the following characteristics:

c.1. A volume of between 50 cm^3 (50 ml) and 2,000 cm^3 (2 liters);

c.2. Made of or lined with tantalum, having a purity of 98% or greater by weight; *and*

c.3. Coated with tantalum carbide, nitride, boride, or any combination thereof.

2A226 Valves having all of the following characteristics (see List of Items Controlled).

LICENSE REQUIREMENTS

*Reason for Control:*NP, CB, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NP applies to entire entry	NP Column 1.
CB applies to valves that also meet or exceed the technical parameters in 2B350.g.	CB Column 2.
AT applies to entire entry	AT Column 1.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: (1) See ECCNs 2E001 (''development''), 2E002 (''production''), and 2E201 (''use'') for technology for items controlled under this entry. (2) Also see ECCNs 2A992, 2B350.g and 2B999. (3) Valves ''specially designed'' or prepared for certain nuclear uses are subject to the export licensing authority of the Nuclear Regulatory Commission (see 10 CFR part 110).

Related Definitions: For valves with different inlet and outlet diameters, the ''nominal size'' in 2A226 refers to the smallest diameter.

Items: a. A ''nominal size'' of 5 mm or greater;

b. Having a bellows seal; *and*

c. Wholly made of or lined with aluminum, aluminum alloy, nickel, or nickel alloy containing more than 60% nickel by weight.

2A290 Generators and other equipment "specially designed", prepared, or intended for use with nuclear plants.

LICENSE REQUIREMENTS

Reason for Control: NP, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NP applies to entire entry	NP Column 2
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: (1) See ECCN 2D290 for software for items controlled under this entry. (2) See ECCNs 2E001 (''development''), 2E002 (''production''), and 2E290 (''use'') for technology for items controlled under this entry. (3) Also see ECCN 2A291. (4) Certain nuclear equipment ''specially designed'' or prepared for use in nuclear plants is subject to the export licensing authority of the Nuclear Regulatory Commission (see 10 CFR part 110).

Related Definitions: N/A

Items: a. Generators, turbine-generator sets, steam turbines, heat exchangers, and heat exchanger type condensers designed or intended for use in a nuclear reactor;

b. Process control systems intended for use with the equipment controlled by 2A290.a.

2A291 Equipment, except items controlled by 2A290, related to nuclear material handling and processing and to nuclear reactors, and "parts," "components" and "accessories" therefor (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NP, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NP applies to entire entry	NP Column 2
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: (1) See ECCN 2D290 for software for items controlled under this entry. (2) See ECCNs 2E001 (''development''), 2E002 (''production''), and 2E290 (''use'') for technology for items controlled under this entry. (3) Also see ECCN 2A290. (4) Certain equipment ''specially designed'' or prepared for use in a nuclear reactor or in nuclear material handling is subject to the export licensing authority of the Nuclear Regulatory Commission (see 10 CFR part 110). (5) Nuclear radiation detection and measurement devices ''specially designed'' or modified for military purposes are ''subject to the ITAR'' (see 22 CFR parts 120 through 130).

Related Definitions: N/A

Items: a. Process control systems intended for use with nuclear reactors.

b. Simulators ''specially designed'' for ''nuclear reactors''.

c. Casks that are ''specially designed'' for transportation of high-level radioactive material and that weigh more than 1,000 kg.

d. Commodities, ''parts,'' ''components'' and ''accessories'' ''specially designed'' or prepared for use with nuclear plants (*e.g.*, snubbers, airlocks, pumps, reactor fuel charging and discharging equipment, containment equipment such as hydrogen recombiner and penetration seals, and reactor and fuel inspection equipment, including ultrasonic or eddy current test equipment).

e. Radiation detectors and monitors ''specially designed'' for detecting or measuring ''special nuclear material'' (as defined in 10 CFR part 110) or for nuclear reactors.

Technical Notes: 1. 2A291.e does not control neutron flux detectors and monitors. These are subject to the export licens ing authority of the Nuclear Regulatory Commission, pursuant to 10 CFR part 110.

2. 2A291.e does not control general purpose radiation detection equipment, such as geiger counters and dosimeters. These items are controlled by ECCN 1A999.

2A983 Explosives or detonator detection equipment, both bulk and trace based, consisting of an automated device, or combination of devices for automated decision making to detect the presence of different types of explosives, explosive residue, or detonators; and "parts" and "components," n.e.s.

LICENSE REQUIREMENTS

*Reason for Control:*RS, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
RS applies to entire entry	RS Column 2
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: Also see 1A004 and 1A995.

Related Definitions: (1) For the purpose of this entry, automated decision making is the ability of the equipment to detect explosives or detonators at the design or operator-selected level of sensitivity and provide an automated alarm when explosives or detonators at or above the sensitivity level are detected. This entry does not control equipment that depends on operator

interpretation of indicators such as inorganic/organic color mapping of the items(s) being scanned.

(2) Explosives and detonators include commercial charges and devices controlled by 1C018 and 1C992 and energetic materials controlled by ECCNs 1C011, 1C111, 1C239 and 22 CFR 121.1 Category V.

Items:

Note: Explosives or detonation detection equipment in 2A983 includes equipment for screening people, documents, baggage, other personal effects, cargo and/or mail.

a. Explosives detection equipment for automated decision making to detect and identify bulk explosives utilizing, but not limited to, x-ray (*e.g.*, computed tomography, dual energy, or coherent scattering), nuclear (*e.g.*, thermal neutron analysis, pulse fast neutron analysis, pulse fast neutron transmission spectroscopy, and gamma resonance absorption), or electromagnetic techniques (*e.g.*, quadropole resonance and dielectrometry).

b. [Reserved]

c. Detonator detection equipment for automated decision making to detect and identify initiation devices (*e.g.* detonators, blasting caps) utilizing, but not limited to, x-ray (*e.g.* dual energy or computed tomography) or electromagnetic techniques.

2A984 Concealed object detection equipment operating in the frequency range from 30 GHz to 3000 GHz and having a spatial resolution of 0.1 milliradian up to and including 1 milliradian at a standoff distance of 100 meters; and "parts" and "components," n.e.s.

LICENSE REQUIREMENTS

Reason for Control: RS, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
RS applies to entire entry	RS Column 2.
AT applies to entire entry	AT Column 1.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: (1) Concealed object detection equipment operating in the frequency range from 30 GHz to 3000 GHz and having a spatial resolution less than 0.1 milliradian (a lower milliradian number means a more accurate image resolution) at a standoff distance of 100 meters is ''subject to the ITAR'' under USML Category XII(c). (2) Concealed object detection equipment operating in the frequency range from 30 GHz to 3000 GHz and having a spatial resolution greater than 1 milliradian (a higher milliradian number means a less accurate image resolution) at a standoff distance of 100 meters is designated as EAR99. (3) See ECCNs 2D984 and 2E984 for related software and technology controls.

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading.

Note: Concealed object detection equipment includes but is not limited to equipment for screening people, documents, baggage, other personal effects, cargo and/or mail.

Technical Note: The range of frequencies span what is generally considered as the millimeter-wave, submillimeter-wave and terahertz frequency regions.

2A991 Bearings and bearing systems not controlled by 2A001 (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: (1) This entry does not control balls with tolerance specified by the manufacturer in accordance with ISO 3290 as grade 5 or worse. (2) Quiet running bearings are ''subject to the ITAR'' (see 22 CFR parts 120 through 130).

Related Definitions: (1) (a) DN is the product of the bearing bore diameter in mm and the bearing rotational velocity in rpm. (b) Operating temperatures include those temperatures obtained when a gas turbine engine has stopped after operation. (2) Annular Bearing Engineers Committee (ABEC); American National Standards Institute (ANSI); Anti-Friction Bearing Manufacturers Association (AFBMA)

Items: a. Ball bearings or Solid ball bearings, having tolerances specified by the manufacturer in accordance with ABEC 7, ABEC 7P, or ABEC 7T or ISO Standard Class 4 or better (or equivalents) and having any of the following characteristics.

a.1. Manufactured for use at operating temperatures above 573 K (300 °C) either by using special materials or by special heat treatment; *or*

a.2. With lubricating elements or ''part'' or ''component'' modifications that, according to the manufacturer's specifications, are ''specially designed'' to enable the bearings to operate at speeds exceeding 2.3 million DN.

b. Solid tapered roller bearings, having tolerances specified by the manufacturer in accordance with ANSI/AFBMA Class 00 (inch) or Class A (metric) or better (or equivalents) and having either of the following characteristics.

b.1. With lubricating elements or ''part'' or ''component'' modifications that, according to the manufacturer's specifications, are ''specially designed'' to enable the bearings to operate at speeds exceeding 2.3 million DN; or

b.2. Manufactured for use at operating temperatures below 219 K (−54 °C) or above 423 K (150 °C).

c. Gas-lubricated foil bearing manufactured for use at operating temperatures of 561 K (288 °C) or higher and a unit load capacity exceeding 1 MPa.

d. Active magnetic bearing systems.

e. Fabric-lined self-aligning or fabric-lined journal sliding bearings manufactured for use at operating temperatures below 219 K (−54 °C) or above 423 K (150 °C).

2A992 Piping, fittings and valves made of, or lined with stainless, copper-nickel alloy or other alloy steel containing 10% or more nickel and/or chromium.

LICENSE REQUIREMENTS

Reason for Control: AT

Control(s)	Country chart (see supp. no. 1 to part 738)
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: (1) See ECCN 2D993 for software for items controlled under this entry. (2) See ECCNs 2E001 (''development''), 2E002 (''production''), and 2E993 (''use'') for technology for items controlled under this entry. (3) Also see ECCNs 2A226, 2B350 and 2B999.

Related Definitions: N/A

Items:

a. Pressure tube, pipe, and fittings of 200 mm (8 in.) or more inside diameter, and suitable for operation at pressures of 3.4 MPa (500 psi) or greater;

b. Pipe valves having all of the following characteristics that are not controlled by ECCN 2B350.g:

b.1. A pipe size connection of 200 mm (8 in.) or more inside diameter; *and*

b.2. Rated at 10.3 MPa (1,500 psi) or more.

2A993 Pumps designed to move molten metals by electromagnetic forces.

LICENSE REQUIREMENTS

Reason for Control: AT

Control(s)	Country chart (see supp. no. 1 to part 738)
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: (1) See ECCN 2D993 for software for items controlled under this entry. (2) See ECCNs 2E001 (''development''), 2E002 (''production''), and 2E993 (''use'') for technology for items controlled under this entry. (3) Pumps for use in liquid-metal-cooled reactors are subject to the export licensing authority of the Nuclear Regulatory Commission (see 10 CFR part 110).

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading.

2A994 Portable electric generators and "specially designed" "parts" and "components".

LICENSE REQUIREMENTS

Reason for Control: AT

Control(s): AT applies to entire entry. A license is required for items controlled by this entry to Iran and North Korea. The Commerce Country Chart is not designed to determine licensing requirements for this entry. See part 746 of the EAR for additional information on Iran. See §742.19 of the EAR for additional information on North Korea.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: See also 2D994 and 2E994.

Related Definitions: 'Portable electric generators' – The generators that are in 2A994 are portable – 5,000 lbs. or less on wheels or transportable in a 2½ ton truck without a special set up requirement.

Items: The list of items controlled is contained in the ECCN heading

2A999 Specific Processing Equipment, n.e.s., as Follows (See List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: AT

Control(s):

Country Chart. AT applies to entire entry. A license is required for items controlled by this entry to North Korea for anti-terrorism reasons. The Commerce Country Chart is not designed to determine AT licensing requirements for this entry. See §742.19 of the EAR for additional information.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
LVS: N/A
GBS: N/A
CIV: N/A
LIST OF ITEMS CONTROLLED
Related Controls: See also 2A226, 2B350.
Related Definitions: N/A
Items: a. Bellows sealed valves;
b. Reserved.

B. ''TEST'', ''INSPECTION'' AND ''PRODUCTION EQUIPMENT''

Technical Notes for 2B001 to 2B009, 2B201, and 2B991 to 2B999: 1. Secondary parallel contouring axes, (e.g., the w-axis on horizontal boring mills or a secondary rotary axis the center line of which is parallel to the primary rotary axis) are not counted in the total number of contouring axes. Rotary axes need not rotate over 360°. A rotary axis can be driven by a linear device (e.g., a screw or a rack-and-pinion).

2. The number of axes which can be coordinated simultaneously for ''contouring control'' is the number of axes along or around which, during processing of the workpiece, simultaneous and interrelated motions are performed between the workpiece and a tool. This does not include any additional axes along or around which other relative motions within the machine are performed, such as:

2.a. Wheel-dressing systems in grinding machines;

2.b. Parallel rotary axes designed for mounting of separate workpieces;

2.c. Co-linear rotary axes designed for manipulating the same workpiece by holding it in a chuck from different ends.

3. Axis nomenclature shall be in accordance with International Standard ISO 841:2001, Industrial automation systems and integration—Numerical control of machines—Coordinate system and motion nomenclature.

4. A ''tilting spindle'' is counted as a rotary axis.

5. 'Stated ''unidirectional positioning repeatability''' may be used for each specific machine model as an alternative to individual machine tests, and is determined as follows:

5.a. Select five machines of a model to be evaluated;

5.b. Measure the linear axis repeatability (R↑,R↓) according to ISO 230–2:2014 and evaluate ''unidirectional positioning repeatability'' for each axis of each of the five machines;

5.c. Determine the arithmetic mean value of the ''unidirectional positioning repeatability''-values for each axis of all five machines together. These arithmetic mean values ''unidirectional positioning repeatability'' (UPR) become the stated value of each axis for the model...) (UPR_x, UPR_y, . . .);

5.d. Since the Category 2 list refers to each linear axis there will be as many 'stated ''unidirectional positioning repeatability''' values as there are linear axes;

5.e. If any axis of a machine model not controlled by 2B001.a. to 2B001.c. has a 'stated ''unidirectional positioning repeatability''' equal to or less than the specified ''unidirectional positioning repeatability'' of each machine tool model plus 0.7 μm, the builder should be required to reaffirm the accuracy level once every eighteen months.

6. For the purpose of 2B, measurement uncertainty for the ''unidirectional positioning repeatability'' of machine tools, as defined in the International Standard ISO 230–2:2014, shall not be considered.

7. For the purpose of 2B, the measurement of axes shall be made according to test procedures in 5.3.2. of ISO 230–2:2014. Tests for axes longer than 2 meters shall be made over 2 m segments. Axes longer than 4 m require multiple tests (e.g., two tests for axes longer than 4 m and up to 8 m, three tests for axes longer than 8 m and up to 12 m), each over 2 m segments and distributed in equal intervals over the axis length. Test segments are equally spaced along the full axis length, with any excess length equally divided at the beginning, in between, and at the end of the test segments. The smallest ''unidirectional positioning repeatability''-value of all test segments is to be reported.

2B001 Machine tools and any combination thereof, for removing (or cutting) metals, ceramics or "composites", which, according to the manufacturer's technical specifications, can be equipped with electronic devices for "numerical control"; as follows (see List of Items Controlled).

LICENSE REQUIREMENTS
Reason for Control: NS, NP, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 2
NP applies to 2B001.a, .b, .c, and .d, EXCEPT: (1) turning machines under 2B001.a with a capacity no greater than 35 mm diameter; (2) bar machines (Swissturn), limited to machining only bar feed through, if maximum bar diameter is equal to or less than 42 mm and there is no capability of mounting chucks. (Machines may have drilling and/or milling capabilities for machining "parts" or "components" with diameters less than 42 mm); or (3) milling machines under 2B001.b with x-axis travel greater than two meters and overall positioning accuracy according to ISO 230/2 (2006) on the x-axis more (worse) than 22.5 μm.	NP Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: (1) See ECCN 2B002 for optical finishing machines. (2) See ECCNs 2D001 and 2D002 for software for items controlled under this entry. (3) See ECCNs 2E001 (''development''), 2E002 (''production''), and 2E201 (''use'') for technology for items controlled under this entry. (4) Also see ECCNs 2B201 and 2B991.

Related Definitions: N/A

Items:

Note 1: 2B001 does not control special purpose machine tools limited to the manufacture of gears. For such machines, see 2B003.

Note 2: 2B001 does not control special purpose machine tools limited to the manufacture of any of the following:

a. Crank shafts or cam shafts;

b. Tools or cutters;

c. Extruder worms;

d. Engraved or faceted jewelry parts; or

e. Dental prostheses.

Note 3: A machine tool having at least two of the three turning, milling or grinding capabilities (e.g., a turning machine with milling capability), must be evaluated against each applicable entry 2B001.a., b. or c.

a. Machine tools for turning having two or more axes which can be coordinated simultaneously for ''contouring control'' having any of the following:

a.1. ''Unidirectional positioning repeatability'' equal to or less (better) than 0.9 µm along one or more linear axis with a travel length less than 1.0 m; *or*

a.2. ''Unidirectional positioning repeatability'' equal to or less (better) than 1.1 µm along one or more linear axis with a travel length equal to or greater than 1.0 m;

Note 1: 2B001.a does not control turning machines ''specially designed'' for producing contact lenses, having all of the following:

a. Machine controller limited to using ophthalmic based ''software'' for part programming data input; and

b. No vacuum chucking.

Note 2: 2B001.a does not apply to bar machines (Swissturn), limited to machining only bar feed thru, if maximum bar diameter is equal to or less than 42 mm and there is no capability of mounting chucks. Machines may have drilling and/or milling capabilities for machining parts with diameters less than 42 mm.

b. Machine tools for milling having any of the following:

b.1. Three linear axes plus one rotary axis which can be coordinated simultaneously for ''contouring control'' having any of the following:

b.1.a. ''Unidirectional positioning repeatability'' equal to or less (better) than 0.9 µm along one or more linear axis with a travel length less than 1.0 m; *or*

b.1.b. ''Unidirectional positioning repeatability'' equal to or less (better) than 1.1 µm along one or more linear axis with a travel length equal to or greater than 1.0 m;

b.2. Five or more axes which can be coordinated simultaneously for ''contouring control'' having any of the following:

Note: 'Parallel mechanism machine tools' are specified by 2B001.b.2.d.

b.2.a. ''Unidirectional positioning repeatability'' equal to or less (better) than 0.9 µm along one or more linear axis with a travel length less than 1.0 m;

b.2.b. ''Unidirectional positioning repeatability'' equal to or less (better) than 1.4 µm along one or more linear axis with a travel length equal to or greater than 1 m and less than 4 m;

b.2.c. ''Unidirectional positioning repeatability'' equal to or less (better) than 6.0 µm along one or more linear axis with a travel length equal to or greater than 4 m; *or*

b.2.d. Being a 'parallel mechanism machine tool';

Technical Note: A 'parallel mechanism machine tool' is a machine tool having multiple rods which are linked with a platform and actuators; each of the actuators operates the respective rod simultaneously and independently.

b.3. A ''unidirectional positioning repeatability'' for jig boring machines,, equal to or less (better) than 1.1 µm along one or more linear axis; *or*

b.4. Fly cutting machines having all of the following:

b.4.a. Spindle ''run-out'' and ''camming'' less (better) than 0.0004 mm TIR; *and*

b.4.b. Angular deviation of slide movement (yaw, pitch and roll) less (better) than 2 seconds of arc, TIR, over 300 mm of travel;

c. Machine tools for grinding having any of the following:

c.1. Having all of the following:

c.1.a. ''Unidirectional positioning repeatability'' equal to or less (better) than 1.1 µm along one or more linear axis; *and*

c.1.b. Three or more axes which can be coordinated simultaneously for ''contouring control''; or

c.2. Five or more axes which can be coordinated simultaneously for ''contouring control'' having any of the following:

c.2.a. ''Unidirectional positioning repeatability'' equal to or less (better) than 1.1 µm along one or more linear axis with a travel length less than 1m;

c.2.b. ''Unidirectional positioning repeatability'' equal to or less (better) than 1.4 µm along one or more linear axis with a travel length equal to or greater than 1 m and less than 4 m; *or*

c.2.c. ''Unidirectional positioning repeatability'' equal to or less (better) than 6.0 µm along one or more linear axis with a travel length equal to or greater than 4 m.

Notes: 2B001.c does not control grinding machines as follows: a. Cylindrical external, internal, and external-internal grinding machines, having all of the following:

a.1. Limited to cylindrical grinding; and

a.2. Limited to a maximum workpiece capacity of 150 mm outside diameter or length.

b. Machines designed specifically as jig grinders that do not have a z-axis or a w-axis, with a ''unidirectional positioning repeatability'' less (better) than 1.1 μm.

c. Surface grinders.

d. Electrical discharge machines (EDM) of the non-wire type which have two or more rotary axes which can be coordinated simultaneously for ''contouring control'';

e. Machine tools for removing metals, ceramics or ''composites'', having all of the following:

e.1. Removing material by means of any of the following:

e.1.a. Water or other liquid jets, including those employing abrasive additives;

e.1.b. Electron beam; or

e.1.c. ''Laser'' beam; and

e.2. At least two rotary axes having all of the following:

e.2.a. Can be coordinated simultaneously for ''contouring control''; and

e.2.b. A positioning ''accuracy'' of less (better) than 0.003°;

f. Deep-hole-drilling machines and turning machines modified for deep-hole-drilling, having a maximum depth-of-bore capability exceeding 5 m.

2B002 Numerically controlled optical finishing machine tools equipped for selective material removal to produce nonspherical optical surfaces having all of the following characteristics (See List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 2
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: See also 2B001.

Related Definitions: For the purposes of 2B002, 'MRF' is a material removal process using an abrasive magnetic fluid whose viscosity is controlled by a magnetic field. 'ERF' is a removal process using an abrasive fluid whose viscosity is controlled by an electric field. 'Energetic particle beam finishing' uses Reactive Atom Plasmas (RAP) or ion-beams to selectively remove material. 'Inflatable membrane tool finishing' is a process that uses a pressurized membrane that deforms to contact the workpiece over a small area.'Fluid jet finishing' makes use of a fluid stream for material removal.

Items: a. Finishing the form to less (better) than 1.0 μm;

b. Finishing to a roughness less (better) than 100 nm rms;

c. Four or more axes which can be coordinated simultaneously for ''contouring control''; *and*

d. Using any of the following processes:

d.1. 'Magnetorheological finishing (MRF)';

d.2. 'Electrorheological finishing (ERF)';

d.3. 'Energetic particle beam finishing';

d.4. 'Inflatable membrane tool finishing'; *or*

d.5. 'Fluid jet finishing'.

2B003 "Numerically controlled" or "manual machine tools", and "specially designed" "components", "controls" and "accessories" therefor, "specially designed" for the "shaving", "finishing", "grinding or honing of hardened (R_c = 40 or more) " "spur", helical and double-helical gears with a pitch diameter exceeding 1,250 mm and a face width of 15% of pitch diameter or larger finished to a quality of AGMA 14 or better (equivalent to ISO 1328 class 3).

LICENSE REQUIREMENTS

Reason for Control: NS, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 2
AT applies to entire entry	AT Column 1

REPORTING REQUIREMENTS See §743.1 of the EAR for reporting requirements for exports under License Exceptions, and Validated End-User authorizations

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: $5000

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: See also 2B993

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading.

2B004 Hot "isostatic presses" having all of the characteristics described in the List of Items Controlled, and "specially designed" "components" and "accessories" therefor.

LICENSE REQUIREMENTS

*Reason for Control:*NS, MT, NP, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 2.

Control(s)	Country Chart (See Supp. No. 1 to part 738)
MT applies to entire entry	MT Column 1.
NP applies to entire entry, except 2B004.b.3 and presses with maximum working pressures below 69 MPa.	NP Column 1.
AT applies to entire entry	AT Column 1.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: (1) See ECCN 2D001 for software for items controlled under this entry. (2) See ECCNs 2E001 (''development''), 2E002 (''production''), and 2E101 (''use'') for technology for items controlled under this entry. (3) For ''specially designed'' dies, molds and tooling, see ECCNs 1B003, 2B018, 9B004, and 9B009. (4) For additional controls on dies, molds and tooling, see ECCNs 1B101.d, 2B104 and 2B204. (5) Also see ECCNs 2B117 and 2B999.a.

Related Definitions: N/A

Items: a. A controlled thermal environment within the closed cavity and possessing a chamber cavity with an inside diameter of 406 mm or more; *and*

b. Having any of the following:

b.1. A maximum working pressure exceeding 207 MPa;

b.2. A controlled thermal environment exceeding 1,773 K (1,500 °C); *or*

b.3. A facility for hydrocarbon impregnation and removal of resultant gaseous degradation products.

Technical Note: The inside chamber dimension is that of the chamber in which both the working temperature and the working pressure are achieved and does not include fixtures. That dimension will be the smaller of either the inside diameter of the pressure chamber or the inside diameter of the insulated furnace chamber, depending on which of the two chambers is located inside the other.

2B005 Equipment "specially designed" for the deposition, processing and in-process control of inorganic overlays, coatings and surface modifications, as follows, for non-electronic substrates, by processes shown in the Table and associated Notes following 2E003.f (see List of Items Controlled), and "specially designed" automated handling, positioning, manipulation and control "components" therefor.

LICENSE REQUIREMENTS

Reason for Control: NS, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 2
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: $1000

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: (1) This entry does not control chemical vapor deposition, cathodic arc, sputter deposition, ion plating or ion implantation equipment, ''specially designed'' for cutting or machining tools. (2) Vapor deposition equipment for the production of filamentary materials are controlled by 1B001 or 1B101. (3) Chemical Vapor Deposition furnaces designed or modified for densification of carbon-carbon composites are controlled by *2B105*. (4) *See also 2B999.i*.

Related Definitions: N/A

Items: a. Chemical vapor deposition (CVD)''production equipment''having all of the following:

a.1. A process modified for one of the following:

a.1.a. Pulsating CVD;

a.1.b. Controlled nucleation thermal deposition (CNTD); or

a.1.c. Plasma enhanced or plasma assisted CVD; and

a.2. Having any of the following:

a.2.a. Incorporating high vacuum (equal to or less than 0.01 Pa) rotating seals; or

a.2.b. Incorporating in situ coating thickness control;

b. Ion implantation ''production equipment'' having beam currents of 5 mA or more;

c. Electron beam physical vapor deposition (EB–PVD) ''production equipment'' incorporating power systems rated for over 80 kW and having any of the following:

c.1. A liquid pool level ''laser'' control system which regulates precisely the ingots feed rate; *or*

c.2. A computer controlled rate monitor operating on the principle of photo-luminescence of the ionized atoms in the evaporant stream to control the deposition rate of a coating containing two or more elements;

d. Plasma spraying ''production equipment'' having any of the following:

d.1. Operating at reduced pressure controlled atmosphere (equal or less than 10 kPa measured above and within 300 mm of the gun nozzle exit) in a vacuum chamber capable of evacuation down to 0.01 Pa prior to the spraying process; *or*

d.2. Incorporating in situ coating thickness control;

e. Sputter deposition ''production equipment'' capable of current densities of 0.1 mA/

mm^2 or higher at a deposition rate 15 μm/h or more;

f. Cathodic arc deposition ''production equipment'' incorporating a grid of electromagnets for steering control of the arc spot on the cathode;

g. Ion plating ''production equipment'' capable of *in situ* measurement of any of the following:

g.1. Coating thickness on the substrate and rate control; *or*

g.2. Optical characteristics.

2B006 Dimensional inspection or measuring systems, equipment, and "electronic assemblies", as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, NP, AT

Control(s)	Country chart (see Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 2
NP applies to those items in 2B006.a and .b that meet or exceed the technical parameters in 2B206.	NP Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: (1) See ECCNs 2D001 and 2D002 for ''software'' for items controlled under this entry. (2) See ECCNs 2E001 (''development''), 2E002 (''production''), and 2E201 (''use'') for technology for items controlled under this entry. (3) *Also see* ECCNs 2B206 and 2B996.

Related Definitions: N/A

Items: a. Computer controlled or ''numerically controlled'' Coordinate Measuring Machines (CMM), having a three dimensional length (volumetric) maximum permissible error of length measurement ($E_{0,MPE}$) at any point within the operating range of the machine (*i.e.*, within the length of axes) equal to or less (better) than (1.7 + L/1,000) μm (L is the measured length in mm) according to ISO 10360–2 (2009);

Technical Note: The $E_{0,MPE}$ of the most accurate configuration of the CMM specified by the manufacturer (e.g., best of the following: Probe, stylus length, motion parameters, environment) and with ''all compensations available'' shall be compared to the 1.7 + L/1,000 μm threshold.

b. Linear and angular displacement measuring instruments, as follows:

b.1. 'Linear displacement' measuring instruments having any of the following:

Note: Interferometer and optical-encoder displacement measuring systems containing a ''laser'' are only specified by 2B006.b.1.c.

Technical Note: For the purpose of 2B006.b.1 'linear displacement' means the change of distance between the measuring probe and the measured object.

b.1.a. Non-contact type measuring systems with a ''resolution'' equal to or less (better) than 0.2 μm within a measuring range up to 0.2 mm;

b.1.b. Linear Variable Differential Transformer (LVDT) systems having all of the following:

b.1.b.1. ''''Having any of the following:

b.1.b.1.a. ''Linearity'' equal to or less (better) than 0.1% measured from 0 to the 'full operating range', for LVDTs with a 'full operating range' up to and including ±5 mm; *or*

b.1.b.1.b. ''Linearity'' equal to or less (better) than 0.1% measured from 0 to 5 mm for LVDTs with a 'full operating range' greater than ±5 mm; *and*

b.1.b.2. Drift equal to or less (better) than 0.1% per day at a standard ambient test room temperature ±1 K;

Technical Note: For the purposes of 2B006.b.1.b, 'full operating range' is half of the total possible linear displacement of the LVDT. For example, LVDTs with a 'full operating range' up to and including ±5 mm can measure a total possible linear displacement of 10 mm.

b.1.c. Measuring systems having all of the following:

b.1.c.1. Containing a ''laser;''

b.1.c.2. A ''resolution'' over their full scale of 0.200 nm or less (better); *and*

b.1.c.3. Capable of achieving a ''measurement uncertainty'' equal to or less (better) than (1.6 + L/2,000) nm (L is the measured length in mm) at any point within a measuring range, when compensated for the refractive index of air and measured over a period of 30 seconds at a temperature of 20±0.01 °C; *or*

b.1.d. ''Electronic assemblies'' ''specially designed'' to provide feedback capability in systems controlled by 2B006.b.1.c;

Note: 2B006.b.1 does not control measuring interferometer systems, with an automatic control system that is designed to use no feedback techniques, containing a ''laser'' to measure slide movement errors of machine-tools, dimensional inspection machines or similar equipment.

b.2. Angular displacement measuring instruments having an angular position ''accuracy'' equal to or less (better) than 0.00025°;

Note: 2B006.b.2 does not control optical instruments, such as autocollimators, using collimated light (e.g., ''laser'' light) to detect angular displacement of a mirror.

c. Equipment for measuring surface roughness (including surface defects), by measuring optical scatter with a sensitivity of 0.5 nm or less (better).

Note: 2B006 includes machine tools, other than those specified by 2B001, that can be used as measuring machines, if they meet or exceed

the criteria specified for the measuring machine function.

2B007 "Robots" having any of the following characteristics described in the List of Items Controlled and "specially designed" controllers and "end-effectors" therefor.

LICENSE REQUIREMENTS

Reason for Control: NS, NP, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 2.
NP applies to equipment that meets or exceeds the criteria in ECCNs 2B207.	NP Column 1.
AT applies to entire entry	AT Column 1.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: $5000, except 2B007.b and .c

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: (1) See ECCN 2D001 for ''software'' for items controlled under this entry. (2) See ECCNs 2E001 (''development''), 2E002 (''production''), and 2E201 (''use'') for technology for items controlled under this entry. (3) *Also see* ECCNs 2B207, 2B225 and 2B997.

Related Definitions: N/A

Items: a. Capable in real time of full three-dimensional image processing or full three-dimensional 'scene analysis' to generate or modify ''programs'' or to generate or modify numerical program data;

Technical Note: The 'scene analysis' limitation does not include approximation of the third dimension by viewing at a given angle, or limited grey scale interpretation for the perception of depth or texture for the approved tasks (2½ D).

b. ''specially designed'' to comply with national safety standards applicable to potentially explosive munitions environments;

Note: 2B007.b does not apply to ''robots'' ''specially designed'' for paint-spraying booths.

c. ''specially designed'' or rated as radiation-hardened to withstand a total radiation dose greater than 5×10^3 Gy (silicon) without operational degradation; *or*

Technical Note: The term Gy (silicon) refers to the energy in Joules per kilogram absorbed by an unshielded silicon sample when exposed to ionizing radiation.

d. ''specially designed'' to operate at altitudes exceeding 30,000m.

2B008 Assemblies or Units, "specially designed" for Machine Tools, or Dimensional Inspection or Measuring Systems and Equipment, as Follows (See List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 2
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: See also 2B998.

Related Definition: N/A

Items: a. Linear position feedback units having an overall ''accuracy'' less (better) than $(800 + (600 \times L \times 10^{-3}))$ nm (L equals the effective length in mm);

N.B.: For ''laser'' systems see also 2B006.b.1.c and d.

b. Rotary position feedback units having an ''accuracy'' less (better) than 0.00025°;

N.B.: For ''laser'' systems see also 2B006.b.2.

Note: 2B008.a and 2B008.b apply to units, which are designed to determine the positioning information for feedback control, such as inductive type devices, graduated scales, infrared systems or ''laser'' systems.

c. ''Compound rotary tables'' and ''tilting spindles'', capable of upgrading, according to the manufacturer's specifications, machine tools to or above the levels controlled by 2B001 to 2B009.

2B009 Spin-forming machines and flow-forming machines, which, according to the manufacturer's technical specifications, can be equipped with "numerical control" units or a computer control and having all of the following characteristics (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, MT, NP, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 2
MT applies to: spin-forming machines combining the functions of spin-forming and flow-forming; and flow-forming machines that meet or exceed the parameters of 2B009.a and 2B109.	MT Column 1
NP applies to flow-forming machines, and spin-forming machines capable of flow-forming functions, that meet or exceed the parameters of 2B209.	NP Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: (1) See ECCN 2D001 for ''software'' for items controlled under this entry. (2) See ECCNs 2E001 (''development''), 2E002 (''production''), and 2E101 (''use'') for technology for items controlled under this entry. (3) Also see ECCNs 2B109 and 2B209 for additional flow-forming machines for MT and NP reasons.

Related Definitions: N/A

Items: a. Three or more axes which can be coordinated simultaneously for ''contouring control''; *and*

b. A roller force more than 60 kN.

Technical Note: For the purpose of 2B009, machines combining the function of spin-forming and flow-forming are regarded as flow-forming machines.

2B018 Equipment on the Wassenaar Arrangement Munitions List.

LICENSE REQUIREMENTS

Reason for Control: NS, MT, RS, AT, UN

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 1.
MT applies to specialized machinery, equipment, and gear for producing rocket systems (including ballistic missile systems, space launch vehicles, and sounding rockets) and unmanned air vehicle systems (including cruise missile systems, target drones, and reconnaissance drones) usable in systems that are controlled for MT reasons including their propulsion systems and components, and pyrolytic deposition and densification equipment.	MT Column 1.
RS applies to entire entry	RS Column 2.
AT applies to entire entry	AT Column 1.
UN applies to entire entry	See § 746.1(b) for UN controls.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: $3000.

GBS: Yes, as follows, except N/A for MT-controlled items or destinations for which a license is required for RS reasons: Equipment used to determine the safety data of explosives as required by the International Convention on the Transport of Dangerous Goods (C.I.M.) Articles 3 and 4 in Annex 1 RID, provided that such equipment will be used only by the railway authorities of current C.I.M. members, or by the Government-accredited testing facilities in those countries, for the testing of explosives to transport safety standards, of the following description:

a. Equipment for determining the ignition and deflagration temperatures;

b. Equipment for steel-shell tests;

c. Drophammers not exceeding 20 kg in weight for determining the sensitivity of explosives to shock;

d. Equipment for determining the friction sensitivity of explosives when exposed to charges not exceeding 36 kg in weight.

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: Specialized machinery, equipment, gear, and ''specially designed'' parts and ''accessories'' therefor, including but not limited to the following, that are ''specially designed'' for the examination, manufacture, testing, and checking of arms, appliances, machines, and implements of war:

a. Armor plate drilling machines, other than radial drilling machines;

b. Armor plate planing machines;

c. Armor plate quenching presses;

d. Centrifugal casting machines capable of casting tubes 6 feet (183 cm) or more in length, with a wall thickness of 2 inches (5 cm) and over;

e. Gun barrel rifling and broaching machines, and tools therefor;

f. Gun barrel rifling machines;

g. Gun barrel trepanning machines;

h. Gun boring and turning machines;

i. Gun honing machines of 6 feet (183 cm) stroke or more;

j. Gun jump screw lathes;

k. Gun rifling machines;

l. Gun straightening presses;

m. Induction hardening machines for tank turret rings and sprockets;

n. Jigs and fixtures and other metal-working implements or ''accessories'' of the kinds exclusively designed for use in the manufacture of firearms, ordnance, and other stores and appliances for land, sea, or aerial warfare;

o. Small arms chambering machines;

p. Small arms deep hole drilling machines and drills therefor;

q. Small arms rifling machines;

r. Small arms spill boring machines;

s. Tank turret bearing grinding machines.

2B104 "Isostatic presses", other than those controlled by 2B004, having all of the following characteristics (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: MT, NP, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
MT applies to entire entry	MT Column 1.
NP applies to entire entry	NP Column 1.
AT applies to entire entry	AT Column 1.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
LVS: N/A
GBS: N/A
CIV: N/A
LIST OF ITEMS CONTROLLED
Related Controls: (1) See ECCN 2D101 for ''software'' for items controlled under this entry. (2) See ECCNs 2E001 (''development''), 2E002 (''production''), and 2E101 (''use'') for technology for items controlled under this entry. (3) Also see ECCNs 2B004, 2B204, and 2B117.
Related Definitions: The inside chamber dimension is that of the chamber in which both the working temperature and the working pressure are achieved and does not include fixtures. That dimension will be the smaller of either the inside diameter of the pressure chamber or the inside diameter of the insulated chamber, depending on which of the two chambers is located inside the other.
Items: a. Maximum working pressure equal to or greater than 69 MPa;

b. Designed to achieve and maintain a controlled thermal environment of 873 K (600 °C) or greater; and

c. Possessing a chamber cavity with an inside diameter of 254 mm or greater.

2B105 Chemical vapor deposition (CVD) furnaces, other than those controlled by 2B005.a, designed or modified for the densification of carbon-carbon composites.

LICENSE REQUIREMENTS
*Reason for Control:*MT, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
MT applies to entire entry	MT Column 1.
AT applies to entire entry	AT Column 1.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
LVS: N/A
GBS: N/A
CIV: N/A
LIST OF ITEMS CONTROLLED
Related Controls: (1) See ECCN 2D101 for ''software'' for items controlled under this entry. (2) See ECCNs 2E001 (''development''), 2E002 (''production''), and 2E101 (''use'') for technology for items controlled under this entry. (3) Also see ECCNs 2B005, 2B117, 2B226 and 2B227.
Related Definitions: N/A
Items: The list of items controlled in contained in the ECCN heading.

2B109 Flow-forming machines, other than those controlled by 2B009, and "specially designed" "parts" and "components" therefor (see List of Items Controlled).

LICENSE REQUIREMENTS
Reason for Control: MT, NP, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
MT applies to entire entry	MT Column 1.
NP applies to items controlled by this entry that meet or exceed the technical parameters in 2B209.	NP Column 1.
AT applies to entire entry	AT Column 1.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
LVS: N/A
GBS: N/A
CIV: N/A
LIST OF ITEMS CONTROLLED
Related Controls: (1) See ECCN 2D101 for ''software'' for items controlled under this entry. (2) See ECCNs 2E001 (''development''), 2E002 (''production''), and 2E101 (''use'') for technology for items controlled under this entry. (3) Also see ECCNs 2B009 and 2B209.
Related Definitions: N/A
Items: a. Flow-forming machines having all of the following:

a.1. According to the manufacturer's technical specification, can be equipped with ''numerical control'' units or a computer control, even when not equipped with such units at delivery; *and*

a.2. Have more than two axes which can be coordinated simultaneously for ''contouring control.''

b. ''Specially Designed'' components for flow-forming machines controlled in 2B009 or 2B109.a.

Technical Notes: 1. Machines combining the function of spin-forming and flow-forming are for the purpose of 2B109 regarded as flow-forming machines.

2. 2B109 does not control machines that are not usable in the ''production'' of propulsion ''parts,'' ''components'' and equipment (e.g., motor cases) for systems in 9A005, 9A007.a, or 9A105.a.

2B116 Vibration test systems and equipment, usable for rockets, missiles, or unmanned aerial vehicles capable of achieving a "range" equal to or greater than 300 km and their subsystems, and "parts" and "components" therefor, as follows (see List of Items Controlled).

LICENSE REQUIREMENTS
Reason for Control: MT, NP, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
MT applies to entire entry	MT Column 1.
NP applies to electrodynamic vibration test systems in 2B116.a and to all items in 2B116.b, .c, and .d.	NP Column 1.

Control(s)	Country Chart (See Supp. No. 1 to part 738)
AT applies to entire entry	AT Column 1.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: (1) See ECCN 2D101 for ''software'' for items controlled under this entry. (2) See ECCNs 2E001 (''development''), 2E002 (''production''), and 2E101 (''use'') for technology for items controlled under this entry. (3) Also see ECCNs 9B106 and 9B990.

Related Definitions: Vibration test systems incorporating a digital controller are those systems, the functions of which are, partly or entirely, automatically controlled by stored and digitally coded electrical signals.

Items: a. Vibration test systems employing feedback or closed loop techniques and incorporating a digital controller, capable of vibrating a system at an acceleration equal to or greater than 10 g rms between 20 Hz to 2,000 Hz while imparting forces equal to or greater than 50 kN (11,250 lbs.), measured 'bare table';

b. Digital controllers, combined with ''specially designed'' vibration test ''software'', with a 'real-time control bandwidth' greater than 5 kHz and designed for use with vibration test systems described in 2B116.a;

c. Vibration thrusters (shaker units), with or without associated amplifiers, capable of imparting a force equal to or greater than 50 kN (11,250 lbs.), measured 'bare table', and usable in vibration test systems described in 2B116.a;

d. Test piece support structures and electronic units designed to combine multiple shaker units into a complete shaker system capable of providing an effective combined force equal to or greater than 50 kN, measured 'bare table', and usable in vibration test systems described in 2B116.a.

Technical Notes: (1) 'Bare table' means a flat table, or surface, with no fixture or fitting.

(2) 'Real-time control bandwidth' is defined as the maximum rate at which a controller can execute complete cycles of sampling, processing data and transmitting control signals.

2B117 Equipment and process controls, other than those controlled by 2B004, 2B005.a, 2B104 or 2B105, designed or modified for the densification and pyrolysis of structural composite rocket nozzles and reentry vehicle nose tips.

LICENSE REQUIREMENTS

*Reason for Control:*MT, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
MT applies to entire entry	MT Column 1.
AT applies to entire entry	AT Column 1.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: (1) See ECCN 2D101 for ''software'' for items controlled under this entry. (2) See ECCNs 2E001 (''development''), 2E002 (''production''), and 2E101 (''use'') for technology for items controlled under this entry. (3) *Also see* ECCN s 2B004, 2B005, 2B104, 2B105, and 2B204.

Related Definitions: N/A

Items: The list of items controlled in contained in the ECCN heading.

2B119 Balancing machines and related equipment, as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: MT, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
MT applies to entire entry	MT Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: See also 7B101.

Related Definitions: N/A

Items: a. Balancing machines having all the following characteristics:

a.1. Not capable of balancing rotors/assemblies having a mass greater than 3 kg;

a.2. Capable of balancing rotors/assemblies at speeds greater than 12,500 rpm;

a.3. Capable of correcting unbalance in two planes or more; and

a.4. Capable of balancing to a residual specific unbalance of 0.2 g mm per kg of rotor mass.

Note: 2B119.a. does not control balancing machines designed or modified for dental or other medical equipment.

b. Indicator heads designed or modified for use with machines specified in 2B119.a.

Note: Indicator heads are sometimes known as balancing instrumentation.

2B120 Motion simulators or rate tables (equipment capable of simulating motion), having all of the following characteristics (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: MT, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
MT applies to entire entry	MT column 1
AT applies to entire entry	AT column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
LVS: N/A
GBS: N/A
CIV: N/A
LIST OF ITEMS CONTROLLED
Related Controls: (1) Rate tables not controlled by 2B120 and providing the characteristics of a positioning table are to be evaluated according to 2B121. (2) Equipment that has the characteristics specified in 2B121, which also meets the characteristics of 2B120 will be treated as equipment specified in 2B120. (3) See also 2B008, 2B121, 7B101 and 7B994.
Related Definitions: N/A
Items: a. Two axes or more;
b. Designed or modified to incorporate sliprings or integrated non-contact devices capable of transferring electrical power, signal information, or both; *and*
c. Having any of the following characteristics:
c.1. For any single axis having all of the following:
c.1.a. Capable of rates of rotation of 400 degrees/s or more, or 30 degrees/s or less, *and*
c.1.b. A rate resolution equal to or less than 6 degrees/s and an accuracy equal to or less than 0.6 degrees/s; or
c.2. Having a worst-case rate stability equal to or better (less) than plus or minus 0.05% averaged over 10 degrees or more; *or*
c.3. A positioning ''accuracy'' equal to or better than 5 arc-second.
Note: 2B120 does not control rotary tables designed or modified for machine tools or for medical equipment. For controls on machine tool rotary tables see 2B008.

2B121 Positioning tables (equipment capable of precise rotary position in any axis), other than those controlled in 2B120, having all the following characteristics (See List of Items Controlled).
LICENSE REQUIREMENTS
Reason for Control: MT, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
MT applies to entire entry	MT Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
LVS: N/A
GBS: N/A
CIV: N/A
LIST OF ITEMS CONTROLLED
Related Controls:
(1) Equipment that has the characteristics specified in 2B121, which also meets the characteristics of 2B120 will be treated as equipment specified in 2B120.
(2) See also 2B008, 2B120, 7B101 and 7B994.
Related Definitions: N/A
Items: a. Two axes or more; *and*
b. A positioning ''accuracy'' equal to or better than 5 arc-second.
Note: 2B121 does not control rotary tables designed or modified for machine tools or for medical equipment. For controls on machine tool rotary tables see 2B008.

2B122 Centrifuges capable of imparting accelerations above 100 g and designed or modified to incorporate sliprings or integrated non-contact devices capable of transferring electrical power, signal information, or both.
LICENSE REQUIREMENTS
Reason for Control: MT, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
MT applies to entire entry	MT Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
LVS: N/A
GBS: N/A
CIV: N/A
LIST OF ITEMS CONTROLLED
Related Controls: See also 7B101.
Related Definitions: N/A
Items: The list of items controlled is contained in the ECCN heading.

2B201 Machine tools, and any combination thereof, other than those controlled by 2B001, for removing or cutting metals, ceramics or "composites," which, according to manufacturer's technical specifications, can be equipped with electronic devices for simultaneous "contouring control" in two or more axes.
LICENSE REQUIREMENTS
Reason for Control: NP, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NP applies to entire entry	NP Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
LVS: N/A
GBS: N/A
CIV: N/A
LIST OF ITEMS CONTROLLED
Related Controls: (1) See ECCNs 2D002 and 2D202 for ''software'' for items controlled

by this entry. ''Numerical control'' units are controlled by their associated ''software''. (2) See ECCNs 2E001 (''development''), 2E002 (''production''), and 2E201 (''use'') for technology for items controlled under this entry. (3) Also see ECCNs 2B001 and 2B991.

Related Definitions: N/A

Items:

Note: 2B201 does not control special purpose machine tools limited to the manufacture of any of the following parts:

a. Gears;

b. Crank shafts or cam shafts;

c. Tools or cutters;

d. Extruder worms;

Technical Note: The identified positioning accuracy values in this entry are based on ISO 230/2 (2006), which equates to the values based on ISO 230/2 (1988) that are used by the Nuclear Supplier's Group (NSG). In 2B201.a and .b.1, this results in a change from 6 μm to 4.5 μm. In paragraph .b of the Note to 2B201.b, the resulting change is from 30 μm to 22.5 μm, In 2B201.c, the resulting change is from 4 μm to 3 μm.

a. Machine tools for turning, that have positioning accuracies according to ISO 230/2 (2006) with all compensations available better (less) than 4.5 μm along any linear axis (overall positioning) for machines capable of machining diameters greater than 35 mm;

Note to 2B201.a: 2B201.a does not control bar machines (Swissturn), limited to machining only bar feed thru, if maximum bar diameter is equal to or less than 42 mm and there is no capability of mounting chucks. Machines may have drilling and/or milling capabilities for machining parts with diameters less than 42 mm.

b. Machine tools for milling, having any of the following characteristics:

b.1. Positioning accuracies according to ISO 230/2 (2006) with ''all compensations available'' equal to or less (better) than 4.5 μm along any linear axis (overall positioning);

b.2. Two or more contouring rotary axes; *or*

b.3. Five or more axes which can be coordinated simultaneously for ''contouring control.''

Note to 2B201.b: 2B201.b does not control milling machines having the following characteristics:

a. X-axis travel greater than 2 m; and

b. Overall positioning accuracy according to ISO 230/2 (2006) on the x-axis more (worse) than 22.5 μm.

c. Machine tools for grinding, having any of the following characteristics:

c.1. Positioning accuracies according to ISO 230/2 (2006) with ''all compensations available'' equal to or less (better) than 3 μm along any linear axis (overall positioning);

c.2. Two or more contouring rotary axes; or

c.3. Five or more axes which can be coordinated simultaneously for ''contouring control.''

Note to 2B201.c: 2B201.c does not control the following grinding machines:

a. Cylindrical external, internal, and external-internal grinding machines having all of the following characteristics:

1. Limited to a maximum workpiece capacity of 150 mm outside diameter or length; and

2. Axes limited to x, z and c.

b. Jig grinders that do not have a z-axis or a w-axis with an overall positioning accuracy less (better) than 3 microns. Positioning accuracy is according to ISO 230/2 (2006).

Technical Note: 2B201.b.3 and c.3 include machines based on a parallel linear kinematic design (e.g. hexapods) that have 5 or more axes none of which are rotary axes.

2B204 "Isostatic presses", other than those controlled by 2B004 or 2B104, and related equipment, as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NP, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NP applies to entire entry	NP Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: (1) See ECCN 2D201 for ''software'' for items controlled under this entry. (2) See ECCNs 2E001 (''development''), 2E002 (''production''), and 2E201 (''use'') for technology for items controlled under this entry. (3) *Also see* ECCNs 2B004 and 2B104.

Related Definitions: The inside chamber dimension is that of the chamber in which both the working temperature and working pressure are achieved and does not include fixtures. That dimension will be the smaller of either the inside diameter of the pressure chamber or the inside diameter of the insulated chamber, depending on which of the two chambers is located inside the other.

Items: a. ''Isostatic presses'' having both of the following characteristics:

a.1. Capable of achieving a maximum working pressure of 69 MPa or greater; *and*

a.2. A chamber cavity with an inside diameter in excess of 152 mm;

b. Dies, molds and controls, ''specially designed'' for ''isostatic presses'' controlled by 2B204.a.

2B206 Dimensional inspection machines, instruments or systems, other than those described in 2B006, as follows (see List of Items Controlled).

LICENSE REQUIREMENTS
Reason for Control: NP, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NP applies to entire entry	NP Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
LVS: N/A
GBS: N/A
CIV: N/A
LIST OF ITEMS CONTROLLED
Related Controls: (1) See ECCNs 2D002 and 2D201 for ''software'' for items controlled under this entry. (2) See ECCNs 2E001 (''development''), 2E002 (''production''), and 2E201 (''use'') for technology for items controlled under this entry. (3) *Also see* ECCNs 2B006 and 2B996.
Related Definitions: N/A
Items:
Control Notes to ECCN 2B206: (1) Machine tools that can be used as measuring machines are controlled by ECCN 2B206 if they meet or exceed the control parameters specified in this entry for the measuring machine function. (2) The machines described in ECCN 2B206 are controlled by this entry if they exceed the specified control threshold anywhere in their operating range.

Technical Note to ECCN 2B206: All parameters of measurement values in this entry represent plus/minus, i.e., not total band.

a. Computer controlled or numerically controlled coordinate measuring machines (CMM) with either of the following characteristics:

a.1. Having only two axes with a maximum permissible error of length measurement along any axis (one dimension), identified as any combination of $E_{0x\ MPE}$, $E_{0y\ MPE}$ or $E_{0z\ MPE}$, equal to or less (better) than (1.25 + L/1000) µm (where L is the measured length in mm) at any point within the operating range of the machine (*i.e.*, within the length of the axis), according to ISO 10360–2 (2009); *or*

a.2. Having three or more axes with a three dimensional (volumetric) maximum permissible error of length measurement, identified as $E_{0,\ MPE}$, equal to or less (better) than (1.7 + L/800) µm (where L is the measured length in mm) at any point within the operating range of the machine (*i.e.*, within the length of the axis), according to ISO 10360–2 (2009).

Technical Note to 2B206.a.2: The $E_{0,\ MPE}$ of the most accurate configuration of the CMM specified according to ISO 10360–2 (2009) by the manufacturer (e.g., best of the following: Probe, stylus length, motion parameters, environment) and with all compensations available shall be compared to the 1.7 + L/800 µm threshold.

b. Systems for simultaneous linear-angular inspection of hemishells, having both of the following characteristics:

b.1. ''Measurement uncertainty'' along any linear axis equal to or less (better) than 3.5 µm per 5 mm; *and*

b.2. ''Angular position deviation'' equal to or less than 0.02°.

c. Linear displacement measuring systems having both of the following characteristics:

c.1. Containing a ''laser;'' *and*

c.2. Capable of maintaining, for at least 12 hours over a temperature range of ± 1 K around a standard temperature and a standard pressure, both:

c.2.a. A ''resolution'' over their full scale of 0.1µm or better; *and*

c.2.b. A ''measurement uncertainty'' equal to or better (less) than (0.2 + L/2000) µm (L is the measured length in millimeters).

Control Note to 2B206.c: 2B206.c does not control measuring interferometer systems, without closed or open loop feedback, containing a ''laser'' to measure slide movement errors of machine tools, dimensional inspection machines, or similar equipment.

Technical Note to 2B206.c: In 2B206.c, ''linear displacement'' means the change of distance between the measuring probe and the measured object.

2B207 "Robots", "end-effectors" and control units, other than those controlled by 2B007, as follows (see List of Items Controlled).

LICENSE REQUIREMENTS
Reason for Control: NP, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NP applies to entire entry	NP Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
LVS: N/A
GBS: N/A
CIV: N/A
LIST OF ITEMS CONTROLLED
Related Controls: (1) See ECCN 2D201 for ''software'' for items controlled under this entry. (2) See ECCNs 2E001 (''development''), 2E002 (''production''), and 2E201 (''use'') for technology for items controlled under this entry. (3) *Also see* ECCNs 2B007, 2B225, and 2B997.
Related Definitions: N/A
ECCN Controls: This entry does not control ''robots'' ''specially designed'' for non-nuclear industrial applications, such as automobile paint-spraying booths.
Items: a. ''Robots'' or ''end-effectors'' ''specially designed'' to comply with national safety standards applicable to handling high explosives (for example, meeting electrical code ratings for high explosives);

b. Control units ''specially designed'' for any of the ''robots'' or ''end-effectors'' controlled by 2B207.a.

2B209 Flow forming machines, spin forming machines capable of flow forming functions, other than those controlled by 2B009 or 2B109, and mandrels, as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NP, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NP applies to entire entry	NP Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: (1) See ECCN 2D201 for ''software'' for items controlled under this entry. (2) See ECCNs 2E001 (''development''), 2E002 (''production''), and 2E201 (''use'') for technology for items controlled under this entry. (3) *Also see* ECCNs 2B009 and 2B109.

Related Definitions: N/A

Items: a. Machines having both of the following characteristics:

a.1. Three or more rollers (active or guiding); *and*

a.2. According to the manufacturer's technical specifications, can be equipped with ''numerical control'' units or a computer control;

Note: 2B209.a includes machines that have only a single roller designed to deform metal, plus two auxiliary rollers that support the mandrel, but do not participate directly in the deformation process.

b. Rotor-forming mandrels designed to form cylindrical rotors of inside diameter between 75 mm and 400 mm.

2B225 Remote manipulators that can be used to provide remote actions in radiochemical separation operations or hot cells, having either of the following characteristics (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NP, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NP applies to entire entry	NP Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: (1) See ECCNs 2E001 (''development''), 2E002 (''production''), and 2E201 (''use'') for technology for items controlled under this entry. (2) *Also see* ECCNs 2B007 and 2B207. (3) Remote manipulators ''specially designed'' or prepared for use in fuel reprocessing or for use in a reactor are subject to the export licensing authority of the Nuclear Regulatory Commission (see 10 CFR part 110).

Related Definitions: N/A

Items: a. A capability of penetrating 0.6 m or more of hot cell wall (through-the-wall operation); *or*

b. A capability of bridging over the top of a hot cell wall with a thickness of 0.6 m or more (over-the-wall operation).

Technical Note: Remote manipulators provide translation of human operator actions to a remote operating arm and terminal fixture. They may be of ''master/slave'' type or operated by joystick or keypad.

2B226 Controlled atmosphere (vacuum or inert gas) induction furnaces, and power supplies therefor, as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NP, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NP applies to entire entry	NP Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: (1) See ECCNs 2E001 (''development''), 2E002 (''production''), and 2E201 (''use'') for technology for items controlled under this entry. (2) Also see ECCN 2B227 and Category 3B.

Related Definitions: N/A

ECCN Controls: 2B226.a does not control furnaces designed for the processing of semiconductor wafers.

Items: a. Furnaces having all of the following characteristics:

a.1. Capable of operation above 1,123 K (850 °C);

a.2. Induction coils 600 mm or less in diameter; *and*

a.3. Designed for power inputs of 5 kW or more;

b. Power supplies, with a specified power output of 5 kW or more, ''specially designed'' for furnaces controlled by 2B226.a.

2B227 Vacuum or other controlled atmosphere metallurgical melting and casting furnaces and related equipment, as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NP, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NP applies to entire entry	NP Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: (1) See ECCN 2D201 for ''software'' for items controlled under this entry. (2) See ECCNs 2E001 (''development''), 2E002 (''production''), and 2E201 (''use'') for technology for items controlled under this entry. (2) Also see ECCN 2B226.

Related Definitions: N/A

Items: a. Arc remelt and casting furnaces having both of the following characteristics:

a.1. Consumable electrode capabilities between 1,000 cm^3 and 20,000 cm^3; *and*

a.2. Capable of operating with melting temperatures above 1,973 K (1,700 °C);

b. Electron beam melting furnaces and plasma atomization and melting furnaces, having both of the following characteristics:

b.1. A power of 50 kW or greater; *and*

b.2. Capable of operating with melting temperatures above 1,473 K (1,200 °C);

c. Computer control and monitoring systems specially configured for any of the furnaces controlled by 2B227.a or .b.

2B228 Rotor fabrication and assembly equipment, rotor straightening equipment, bellows-forming mandrels and dies, as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NP, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NP applies to entire entry	NP Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: See ECCNs 2E001 (''development''), 2E002 (''production''), and 2E201 (''use'') for technology for items controlled under this entry.

Related Definitions: N/A

Items: a. Rotor assembly equipment for assembly of gas centrifuge rotor tube sections, baffles, and end-caps;

Note: 2B228.a includes precision mandrels, clamps, and shrink fit machines.

b. Rotor straightening equipment for alignment of gas centrifuge rotor tube sections to a common axis;

Technical Note: The rotor straightening equipment in 2B228.b normally consists of precision measuring probes linked to a computer that subsequently controls the action of, for example, pneumatic rams used for aligning the rotor tube sections.

c. Bellows-forming mandrels and dies for producing single-convolution bellows.

Technical Note: In 2B228.c, the bellows have all of the following characteristics:

1. Inside diameter between 75 mm and 400 mm;

2. Length equal to or greater than 12.7 mm;

3. Single convolution depth greater than 2 mm; and

4. Made of high-strength aluminum alloys, maraging steel or high strength ''fibrous or filamentary materials''.

2B229 Centrifugal multiplane balancing machines, fixed or portable, horizontal or vertical, as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NP, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NP applies to entire entry	NP Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: (1) See ECCN 2D201 for ''software'' for items controlled under this entry. (2) See ECCNs 2E001 (''development''), 2E002 (''production''), and 2E201 (''use'') for technology for items controlled under this entry.

Related Definitions: N/A

Items: a. Centrifugal balancing machines designed for balancing flexible rotors having a length of 600 mm or more and having all of the following characteristics:

a.1. Swing or journal diameter greater than 75 mm;

a.2. Mass capability of from 0.9 to 23 kg; *and*

a.3. Capable of balancing speed of revolution greater than 5,000 r.p.m.;

b. Centrifugal balancing machines designed for balancing hollow cylindrical rotor ''parts'' or ''components'' and having all of the following characteristics:

b.1. Journal diameter greater than 75 mm;

b.2. Mass capability of from 0.9 to 23 kg;

b.3. A minimum achievable residual specific unbalance equal to or less than 10 g-mm/kg per plane; *and*

b.4. Belt drive type.

2B230 All types of "pressure transducers" capable of measuring absolute pressures and having all of the characteristics described in this ECCN (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NP, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NP applies to entire entry	NP Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: See ECCNs 2E001 (''development''), 2E002 (''production''), and 2E201 (''use'') for technology for items controlled under this entry.

Related Definitions: (1) For purposes of this entry, ''pressure transducers'' are devices that convert pressure measurements into a signal. (2) For purposes of this entry, ''accuracy'' includes non-linearity, hysteresis and repeatability at ambient temperature.

Items: a. Pressure sensing elements made of or protected by aluminum, aluminum alloy, aluminum oxide (alumina or sapphire), nickel, nickel alloy with more than 60% nickel by weight, or fully fluorinated hydrocarbon polymers;

b. Seals, if any, essential for sealing the pressure sensing element, and in direct contact with the process medium, made of or protected by aluminum, aluminum alloy, aluminum oxide (alumina or sapphire), nickel, nickel alloy with more than 60% nickel by weight, or fully fluorinated hydrocarbon polymers; and

c. Either of the following characteristics:

c.1. A full scale of less 13 kPa and an ''accuracy'' of better than ±1% of full scale; *or*

c.2. A full scale of 13 kPa or greater and an ''accuracy'' of better than ±130 Pa when measuring at 13 kPa.

2B231 Vacuum pumps having all of the characteristics described in this ECCN (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NP, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NP applies to entire entry	NP Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: (1) See ECCNs 2E001 (''development''), 2E002 (''production''), and 2E201 (''use'') for ''technology'' for items controlled under this entry. (2) Also see bellows-sealed scroll-type compressors and bellows-sealed scroll-type vacuum pumps controlled under ECCN 2B233. (3) Vacuum pumps ''specially designed'' or prepared for the separation of uranium isotopes are subject to the export licensing authority of the Nuclear Regulatory Commission (see 10 CFR part 110).

Related Definitions: (1) The pumping speed is determined at the measurement point with nitrogen gas or air. (2) The ultimate vacuum is determined at the input of the pump with the input of the pump blocked off.

Items: a. Input throat size equal to or greater than 380 mm;

b. Pumping speed equal to or greater than 15 m^3/s; *and*

c. Capable of producing an ultimate vacuum better than 13.3 mPa.

2B232 High-velocity gun systems (propellant, gas, coil, electromagnetic, and electrothermal types, and other advanced systems) capable of accelerating projectiles to 1.5 km/s or greater.

LICENSE REQUIREMENTS

Reason for Control: NP, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NP applies to entire entry	NP Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: See ECCNs 2E001 (''development''), 2E002 (''production''), and 2E201 (''use'') for technology for items controlled under this entry.

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading.

2B233 Bellows-sealed scroll-type compressors and bellows-sealed scroll-type vacuum pumps having all of the characteristics described in this ECCN (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NP, AT

Control(s)	Country chart (see Supp. No. 1 to part 738)
NP applies to entire entry	NP Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: (1) See ECCNs 2E001 (''development''), 2E002 (''production''), and 2E201 (''use'') for ''technology'' for items controlled under this entry. (2) Also see vacuum pumps controlled under ECCN 2B231. (3) Vacuum pumps ''specially designed'' or prepared for the separation of uranium isotopes are subject to the export licensing authority of the Nuclear Regulatory Commission (see 10 CFR part 110).

Related Definitions: N/A

Items: a. Capable of an inlet volume flow rate of 50 m^3/h or greater;

b. Capable of a pressure ratio of 2:1 or greater; *and*

c. Having all surfaces that come in contact with the process gas made from any of the following:

c.1. Aluminum or aluminum alloy;

c.2. Aluminum oxide;

c.3. Stainless steel;

c.4. Nickel or nickel alloy;

c.5. Phosphor bronze; *or*

c.6. Fluoropolymers.

Technical Notes: 1. In a scroll compressor or vacuum pump, crescent-shaped pockets of gas are trapped between one or more pairs of intermeshed spiral vanes, or scrolls, one of which moves while the other remains stationary. The moving scroll orbits the stationary scroll; it does not rotate. As the moving scroll orbits the stationary scroll, the gas pockets diminish in size (i.e., they are compressed) as they move toward the outlet port of the machine.

2. In a bellows-sealed scroll compressor or vacuum pump, the process gas is totally isolated from the lubricated parts of the pump and from the external atmosphere by a metal bellows. One end of the bellows is attached to the moving scroll and the other end is attached to the stationary housing of the pump.

3. Fluoropolymers include, but are not limited to, the following materials:

a. Polytetrafluoroethylene (PTFE);

b. Fluorinated Ethylene Propylene (FEP);

c. Perfluoroalkoxy (PFA);

d. Polychlorotrifluoroethylene (PCTFE); and

e. Vinylidene fluoride-hexafluoropropylene copolymer.

2B350 Chemical manufacturing facilities and equipment, except valves controlled by 2A226, as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: CB, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
CB applies to entire entry	CB Column 2.
AT applies to entire entry	AT Column 1.

License Requirement Note: This ECCN does not control equipment that is both: (1) ''Specially Designed'' for use in civil applications (e.g., food processing, pulp and paper processing, or water purification) and (2) inappropriate, by the nature of its design, for use in storing, processing, producing or conducting and controlling the flow of the chemical weapons precursors controlled by 1C350.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: $2,000 for all Country Group B destinations, *except* those also listed under Country Group D:3 (see Supplement No. 1 to part 740 of the EAR).

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: See also ECCNs 2A226, 2A992, 2A993, 2B231, and 2B999.

Related Definitions: For purposes of this entry the term 'chemical warfare agents' includes those agents ''subject to the ITAR'' (see 22 CFR parts 120 through 130).

Items: a. Reaction vessels or reactors, with or without agitators, with total internal (geometric) volume greater than 0.1 m^3 (100 liters) and less than 20 m^3 (20,000 liters), where all surfaces that come in direct contact with the chemical(s) being processed or contained are made from any of the following materials:

a.1. Alloys with more than 25% nickel and 20% chromium by weight;

a.2. Nickel or alloys with more than 40% nickel by weight;

a.3. Fluoropolymers (polymeric or elastomeric materials with more than 35% fluorine by weight);

a.4. Glass (including vitrified or enameled coating or glass lining);

a.5. Tantalum or tantalum alloys;

a.6. Titanium or titanium alloys;

a.7. Zirconium or zirconium alloys; *or*

a.8. Niobium (columbium) or niobium alloys.

b. Agitators designed for use in reaction vessels or reactors described in 2B350.a, and impellers, blades or shafts designed for such agitators, where all surfaces that come in direct contact with the chemical(s) being processed or contained are made from any of the following materials:

b.1. Alloys with more than 25% nickel and 20% chromium by weight;

b.2. Nickel or alloys with more than 40% nickel by weight;

b.3. Fluoropolymers (polymeric or elastomeric materials with more than 35% fluorine by weight);

b.4. Glass (including vitrified or enameled coatings or glass lining);

b.5. Tantalum or tantalum alloys;

b.6. Titanium or titanium alloys;

b.7. Zirconium or zirconium alloys; *or*

b.8. Niobium (columbium) or niobium alloys.

c. Storage tanks, containers or receivers with a total internal (geometric) volume greater than 0.1 m^3 (100 liters) where all surfaces that come in direct contact with the chemical(s) being processed or contained are made from any of the following materials:

c.1. Alloys with more than 25% nickel and 20% chromium by weight;

c.2. Nickel or alloys with more than 40% nickel by weight;

c.3. Fluoropolymers (polymeric or elastomeric materials with more than 35% fluorine by weight);

c.4. Glass (including vitrified or enameled coatings or glass lining);

c.5. Tantalum or tantalum alloys;

c.6. Titanium or titanium alloys;

c.7. Zirconium or zirconium alloys; *or*

c.8. Niobium (columbium) or niobium alloys.

d. Heat exchangers or condensers with a heat transfer surface area of less than 20 m^2, but greater than 0.15 m^2, and tubes, plates, coils or blocks (cores) designed for such heat exchangers or condensers, where all surfaces that come in direct contact with the chemical(s) being processed are made from any of the following materials:

d.1. Alloys with more than 25% nickel and 20% chromium by weight;

d.2. Nickel or alloys with more than 40% nickel by weight;

d.3. Fluoropolymers (polymeric or elastomeric materials with more than 35% fluorine by weight);

d.4. Glass (including vitrified or enameled coatings or glass lining);

d.5. Tantalum or tantalum alloys;

d.6. Titanium or titanium alloys;

d.7. Zirconium or zirconium alloys;

d.8. Niobium (columbium) or niobium alloys;

d.9. Graphite or carbon-graphite;

d.10. Silicon carbide; *or*

d.11. Titanium carbide.

e. Distillation or absorption columns of internal diameter greater than 0.1 m, and liquid distributors, vapor distributors or liquid collectors designed for such distillation or absorption columns, where all surfaces that come in direct contact with the chemical(s) being processed are made from any of the following materials:

e.1. Alloys with more than 25% nickel and 20% chromium by weight;

e.2. Nickel or alloys with more than 40% nickel by weight;

e.3. Fluoropolymers (polymeric or elastomeric materials with more than 35% fluorine by weight);

e.4. Glass (including vitrified or enameled coatings or glass lining);

e.5. Tantalum or tantalum alloys;

e.6. Titanium or titanium alloys;

e.7. Zirconium or zirconium alloys;

e.8. Niobium (columbium) or niobium alloys; *or*

e.9. Graphite or carbon-graphite.

f. Remotely operated filling equipment in which all surfaces that come in direct contact with the chemical(s) being processed are made from any of the following materials:

f.1. Alloys with more than 25% nickel and 20% chromium by weight; *or*

f.2. Nickel or alloys with more than 40% nickel by weight.

g. Valves, as follows:

g.1. Valves having both of the following characteristics:

g.1.a. A nominal size greater than 1.0 cm (⅜ in.); *and*

g.1.b. All surfaces that come in direct contact with the chemical(s) being produced, processed, or contained are made from materials identified in Technical Note 1 to 2B350.g.

g.2. Valves, except for valves controlled by 2B350.g.1, having all of the following characteristics:

g.2.a. A nominal size equal to or greater than 2.54 cm (1 inch) and equal to or less than 10.16 cm (4 inches);

g.2.b. Casings (valve bodies) or preformed casing liners controlled by 2B350.g.3, in which all surfaces that come in direct contact with the chemical(s) being produced, processed, or contained are made from materials identified in Technical Note 1 to 2B350.g; *and*

g.2.c. A closure element designed to be interchangeable.

g.3. Casings (valve bodies) and preformed casing liners having both of the following characteristics:

g.3.a. Designed for valves in 2B350.g.1 or .g.2; *and*

g.3.b. All surfaces that come in direct contact with the chemical(s) being produced, processed, or contained are made from materials identified in Technical Note 1 to 2B350.g.

Technical Note 1 to 2B350.g: All surfaces of the valves controlled by 2B350.g.1, and the casings (valve bodies) and preformed casing liners controlled by 2B350.g.3, that come in direct contact with the chemical(s) being produced, processed, or contained are made from the following materials:

a. Alloys with more than 25% nickel and 20% chromium by weight;

b. Nickel or alloys with more than 40% nickel by weight;

c. Fluoropolymers (polymeric or elastomeric materials with more than 35% fluorine by weight);

d. Glass (including vitrified or enameled coating or glass lining);

e. Tantalum or tantalum alloys;

f. Titanium or titanium alloys;

g. Zirconium or zirconium alloys;

h. Niobium (columbium) or niobium alloys; or

i. Ceramic materials, as follows:

i.1. Silicon carbide with a purity of 80% or more by weight;

i.2. Aluminum oxide (alumina) with a purity of 99.9% or more by weight; or

i.3. Zirconium oxide (zirconia).

Technical Note 2 to 2B350.g: The 'nominal size' is defined as the smaller of the inlet and outlet port diameters

h. Multi-walled piping incorporating a leak detection port, in which all surfaces that come in direct contact with the chemical(s) being processed or contained are made from any of the following materials:

h.1. Alloys with more than 25% nickel and 20% chromium by weight;

h.2. Nickel or alloys with more than 40% nickel by weight;

h.3. Fluoropolymers (polymeric or elastomeric materials with more than 35% fluorine by weight);

h.4. Glass (including vitrified or enameled coatings or glass lining);

h.5. Tantalum or tantalum alloys;

h.6. Titanium or titanium alloys;

h.7. Zirconium or zirconium alloys;

h.8. Niobium (columbium) or niobium alloys; *or*

h.9. Graphite or carbon-graphite.

i. Multiple-seal and seal-less pumps with manufacturer's specified maximum flow-rate greater than 0.6 m^3/hour (600 liters/hour), or vacuum pumps with manufacturer's specified maximum flow-rate greater than 5 m^3/hour (5,000 liters/hour) (under standard temperature (273 K (0 °C)) and pressure (101.3 kPa) conditions), and casings (pump bodies), preformed casing liners, impellers, rotors or jet pump nozzles designed for such pumps, in which all surfaces that come into direct contact with the chemical(s) being processed are made from any of the following materials:

i.1. Alloys with more than 25% nickel and 20% chromium by weight;

i.2. Nickel or alloys with more than 40% nickel by weight;

i.3. Fluoropolymers (polymeric or elastomeric materials with more than 35% fluorine by weight);

i.4. Glass (including vitrified or enameled coatings or glass lining);

i.5. Tantalum or tantalum alloys;

i.6. Titanium or titanium alloys;

i.7. Zirconium or zirconium alloys;

i.8. Niobium (columbium) or niobium alloys.

i.9. Graphite or carbon-graphite;

i.10. Ceramics; *or*

i.11. Ferrosilicon (high silicon iron alloys).

Technical Note to 2B350.i: The seals referred to in 2B350.i come into direct contact with the chemical(s) being processed (or are designed to do so), and provide a sealing function where a rotary or reciprocating drive shaft passes through a pump body.

j. Incinerators designed to destroy chemical warfare agents, chemical weapons precursors controlled by 1C350, or chemical munitions having ''specially designed'' waste supply systems, special handling facilities and an average combustion chamber temperature greater than 1000 °C in which all surfaces in the waste supply system that come into direct contact with the waste products are made from or lined with any of the following materials:

j.1. Alloys with more than 25% nickel and 20% chromium by weight;

j.2. Nickel or alloys with more than 40% nickel by weight; *or*

j.3. Ceramics.

Technical Note 1: Carbon-graphite is a composition consisting primarily of graphite and amorphous carbon, in which the graphite is 8 percent or more by weight of the composition.

Technical Note 2: For the items listed in 2B350, the term 'alloy,' when not accompanied by a specific elemental concentration, is understood as identifying those alloys where the identified metal is present in a higher percentage by weight than any other element.

Technical Note 3: The materials used for gaskets, packing, seals, screws or washers, or other materials performing a sealing function, do not determine the control status of the items in this ECCN, provided that such components are designed to be interchangeable.

Note: See Categories V and XIV of the United States Munitions List for all chemicals that are ''subject to the ITAR'' (see 22 CFR parts 120 through 130).

2B351 Toxic gas monitoring systems and their dedicated detecting "parts" and "components" (i.e., detectors, sensor devices, and replaceable sensor cartridges), as follows, except those systems and detectors controlled by ECCN 1A004.c (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: CB, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
CB applies to entire entry	CB Column 2.
AT applies to entire entry	AT Column 1.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: See ECCN 2D351 for ''software'' for toxic gas monitoring systems and their dedicated detecting ''parts'' and ''components'' controlled by this ECCN. Also see ECCN 1A004, which controls chemical detection systems and ''specially designed'' ''parts'' and ''components'' therefor that are ''specially designed'' or modified for detection or identification of chemical warfare agents, but not ''specially designed'' for military use, and ECCN 1A995, which controls certain detection equipment, ''parts'' and ''components'' not controlled by ECCN 1A004 or by this ECCN.

Related Definitions: (1) For the purposes of this entry, the term ''dedicated'' means committed entirely to a single purpose or device. (2) For the purposes of this entry, the term ''continuous operation'' describes the capability of the equipment to operate on line without human intervention. The intent of this entry is to control toxic gas monitoring systems capable of collection and detection of samples in environments such as chemical plants, rather than those used for batch-mode operation in laboratories.

Items: a. Designed for continuous operation and usable for the detection of chemical warfare agents or chemicals controlled by 1C350 at concentrations of less than 0.3 mg/m^3; or

b. Designed for the detection of cholinesterase-inhibiting activity.

2B352 Equipment capable of use in handling biological materials, as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: CB, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
CB applies to entire entry	CB Column 2.
AT applies to entire entry	AT Column 1.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: See ECCNs 1A004 and 1A995 for protective equipment that is not covered by this entry. Also see ECCN 9A120 for controls on certain ''UAV'' systems designed or modified to dispense an aerosol and capable of carrying elements of a payload in the form of a particulate or liquid, other than fuel ''parts'' or ''components'' of such vehicles, of a volume greater than 20 liters.

Related Definitions: (1) ''Lighter than air vehicles''—balloons and airships that rely on hot air or on lighter-than-air gases, such as helium or hydrogen, for their lift. (2) ''UAVs''—Unmanned Aerial Vehicles. (3) ''VMD''—Volume Median Diameter.

Items:

a. Containment facilities and related equipment, as follows:

a.1. Complete containment facilities at P3 or P4 containment level.

Technical Note: P3 or P4 (BL3, BL4, L3, L4) containment levels are as specified in the WHO Laboratory Biosafety Manual (3rd edition, Geneva, 2004).

a.2. Equipment designed for fixed installation in containment facilities specified in paragraph a.1 of this ECCN, as follows:

a.2.a. Double-door pass-through decontamination autoclaves;

a.2.b. Breathing air suit decontamination showers;

a.2.c. Mechanical-seal or inflatable-seal walkthrough doors.

b. Fermenters and components as follows:

b.1. Fermenters capable of cultivation of micro-organisms or of live cells for the production of viruses or toxins, without the propagation of aerosols, having a capacity of 20 liters or greater.

b.2. Components designed for such fermenters, as follows:

b.2.a. Cultivation chambers designed to be sterilized or disinfected in situ;

b.2.b. Cultivation chamber holding devices; or

b.2.c. Process control units capable of simultaneously monitoring and controlling two or more fermentation system parameters (e.g., temperature, pH, nutrients, agitation, dissolved oxygen, air flow, foam control).

Technical Note: Fermenters include bioreactors (including single-use (disposable) bioreactors), chemostats and continuous-flow systems.

c. Centrifugal separators capable of the continuous separation of pathogenic microorganisms, without the propagation of aerosols, and having all of the following characteristics:

c.1. One or more sealing joints within the steam containment area;

c.2. A flow rate greater than 100 liters per hour;

c.3. ''Parts'' or ''components'' of polished stainless steel or titanium; and

c.4. Capable of in-situ steam sterilization in a closed state.

Technical Note: Centrifugal separators include decanters.

d. Cross (tangential) flow filtration equipment and ''accessories'', as follows:

d.1. Cross (tangential) flow filtration equipment capable of separation of microorganisms, viruses, toxins or cell cultures having all of the following characteristics:

d.1.a. A total filtration area equal to or greater than 1 square meter (1 m^2); and

d.1.b. Having any of the following characteristics:

d.1.b.1. Capable of being sterilized or disinfected in-situ; or

d.1.b.2. Using disposable or single-use filtration ''parts'' or ''components''.

N.B.: 2B352.d.1 does not control reverse osmosis and hemodialysis equipment, as specified by the manufacturer.

d.2. Cross (tangential) flow filtration ''parts'' or ''components'' (e.g., modules, elements, cassettes, cartridges, units or plates) with filtration area equal to or greater than 0.2 square meters (0.2 m^2) for each ''part'' or ''component'' and designed for use in cross (tangential) flow filtration equipment controlled by 2B352.d.1.

Technical Note: In this ECCN, ''sterilized'' denotes the elimination of all viable microbes from the equipment through the use of either physical (e.g., steam) or chemical agents. ''Disinfected'' denotes the destruction of potential microbial infectivity in the equipment through the use of chemical agents with a germicidal effect. ''Disinfection'' and ''sterilization'' are distinct from ''sanitization'', the latter referring to cleaning procedures designed to lower the microbial content of equipment without necessarily achieving elimination of all microbial infectivity or viability.

e. Steam, gas or vapor sterilizable freeze-drying equipment with a condenser capacity of 10 kg of ice or greater in 24 hours (10 liters of water or greater in 24 hours) and less than 1000 kg of ice in 24 hours (less than 1,000 liters of water in 24 hours).

f. Spray-drying equipment capable of drying toxins or pathogenic microorganisms having all of the following characteristics:

f.1. A water evaporation capacity of ≥0.4 kg/h and ≤400 kg/h;

f.2. The ability to generate a typical mean product particle size of ≤10 micrometers with existing fittings or by minimal modification of the spray-dryer with atomization nozzles enabling generation of the required particle size; and

f.3. Capable of being sterilized or disinfected in situ.

g. Protective and containment equipment, as follows:

g.1. Protective full or half suits, or hoods dependant upon a tethered external air supply and operating under positive pressure;

Technical Note: This entry does not control suits designed to be worn with self-contained breathing apparatus.

g.2. Biocontainment chambers, isolators, or biological safety cabinets having all of the following characteristics, for normal operation:

g.2.a. Fully enclosed workspace where the operator is separated from the work by a physical barrier;

g.2.b. Able to operate at negative pressure;

g.2.c. Means to safely manipulate items in the workspace; *and*

g.2.d. Supply and exhaust air to and from the workspace is high-efficiency particulate air (HEPA) filtered.

Note 1 to 2B352.g.2: 2B352.g.2 controls class III biosafety cabinets, as specified in the WHO Laboratory Biosafety Manual (3rd edition, Geneva, 2004) or constructed in accordance with national standards, regulations or guidance.

Note 2 to 2B352.g.2: 2B352.g.2 does not control isolators ''specially designed'' for barrier nursing or transportation of infected patients.

h. Aerosol inhalation equipment designed for aerosol challenge testing with microorganisms, viruses or toxins, as follows:

h.1. Whole-body exposure chambers having a capacity of 1 cubic meter or greater.

h.2. Nose-only exposure apparatus utilizing directed aerosol flow and having a capacity for the exposure of 12 or more rodents, or two or more animals other than rodents, and closed animal restraint tubes designed for use with such apparatus.

i. Spraying or fogging systems and ''parts'' and ''components'' therefor, as follows:

i.1. Complete spraying or fogging systems, ''specially designed'' or modified for fitting to aircraft, ''lighter than air vehicles,'' or ''UAVs,'' capable of delivering, from a liquid suspension, an initial droplet ''VMD'' of less than 50 microns at a flow rate of greater than 2 liters per minute;

i.2. Spray booms or arrays of aerosol generating units, ''specially designed'' or modified for fitting to aircraft, ''lighter than air vehicles,'' or ''UAVs,'' capable of delivering, from a liquid suspension, an initial droplet ''VMD'' of less than 50 microns at a flow rate of greater than 2 liters per minute;

i.3. Aerosol generating units ''specially designed'' for fitting to the systems as specified in paragraphs i.1 and i.2 of this ECCN.

Technical Notes: 1. Aerosol generating units are devices ''specially designed'' or modified for fitting to aircraft and include nozzles, rotary drum atomizers and similar devices.

2. This ECCN does not control spraying or fogging systems, ''parts'' and ''components,'' as specified in 2B352.i, that are demonstrated not to be capable of delivering biological agents in the form of infectious aerosols.

3. Droplet size for spray equipment or nozzles ''specially designed'' for use on aircraft or ''UAVs'' should be measured using either of the following methods (pending the adoption of internationally accepted standards):

a. Doppler laser method,

b. Forward laser diffraction method.

2B991 Numerical control units for machine tools and "numerically controlled" machine tools, n.e.s. (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
LVS: N/A
GBS: N/A
CIV: N/A
LIST OF ITEMS CONTROLLED
Related Controls: See also ECCNs 2B001 and 2B201.
Related Definitions: N/A
Items: a. ''Numerical control'' units for machine tools:

a.1. Having four interpolating axes that can be coordinated simultaneously for ''contouring control''; or

a.2. Having two or more axes that can be coordinated simultaneously for ''contouring control'' and a minimum programmable increment better (less) than 0.001 mm;

a.3. ''Numerical control'' units for machine tools having two, three or four interpolating axes that can be coordinated simultaneously for ''contouring control'', and capable of receiving directly (on-line) and processing computer-aided-design (CAD) data for internal preparation of machine instructions; *or*

b. ''Motion control boards'' ''specially designed'' for machine tools and having any of the following characteristics:

b.1. Interpolation in more than four axes;

b.2. Capable of ''real time processing'' of data to modify tool path, feed rate and spindle data, during the machining operation, by any of the following:

b.2.a. Automatic calculation and modification of part program data for machining in two or more axes by means of measuring cycles and access to source data; *or*

b.2.b. ''Adaptive control'' with more than one physical variable measured and processed by means of a computing model (strategy) to change one or more machining instructions to optimize the process.

b.3. Capable of receiving and processing CAD data for internal preparation of machine instructions; *or*

c. ''Numerically controlled'' machine tools that, according to the manufacturer's technical specifications, can be equipped with electronic devices for simultaneous ''contouring control'' in two or more axes and that have both of the following characteristics:

c.1. Two or more axes that can be coordinated simultaneously for contouring control; *and*

c.2. Positioning accuracies according to ISO 230/2 (2006), with all compensations available:

c.2.a. Better than 15 μm along any linear axis (overall positioning) for grinding machines;

c.2.b. Better than 15 μm along any linear axis (overall positioning) for milling machines; *or*

c.2.c. Better than 15 μm along any linear axis (overall positioning) for turning machines; *or*

d. Machine tools, as follows, for removing or cutting metals, ceramics or composites, that, according to the manufacturer's technical specifications, can be equipped with electronic devices for simultaneous ''contouring control'' in two or more axes:

d.1. Machine tools for turning, grinding, milling or any combination thereof, having two or more axes that can be coordinated simultaneously for ''contouring control'' and having any of the following characteristics:

d.1.a. One or more contouring ''tilting spindles'';

Note: 2B991.d.1.a. applies to machine tools for grinding or milling only.

d.1.b. ''Camming'' (axial displacement) in one revolution of the spindle less (better) than 0.0006 mm total indicator reading (TIR);

Note: 2B991.d.1.b. applies to machine tools for turning only.

d.1.c. ''Run out'' (out-of-true running) in one revolution of the spindle less (better) than 0.0006 mm total indicator reading (TIR);

d.1.d. The ''positioning accuracies'', with all compensations available, are less (better) than: 0.001° on any rotary axis;

d.2. Electrical discharge machines (EDM) of the wire feed type that have five or more axes that can be coordinated simultaneously for ''contouring control''.

2B992 Non-"numerically controlled" machine tools for generating optical quality surfaces, (see List of Items Controlled) and "specially designed" "parts" and "components" therefor.

LICENSE REQUIREMENTS
Reason for Control: AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
LVS: N/A
GBS: N/A
CIV: N/A
LIST OF ITEMS CONTROLLED
Related Controls: N/A
Related Definitions: N/A
Items: a. Turning machines using a single point cutting tool and having all of the following characteristics:

a.1. Slide positioning accuracy less (better) than 0.0005 mm per 300 mm of travel;

a.2. Bidirectional slide positioning repeatability less (better) than 0.00025 mm per 300 mm of travel;

a.3. Spindle ''run out'' and ''camming'' less (better) than 0.0004 mm total indicator reading (TIR);

a.4. Angular deviation of the slide movement (yaw, pitch and roll) less (better) than 2 seconds of arc, TIR, over full travel; *and*

a.5. Slide perpendicularity less (better) than 0.001 mm per 300 mm of travel;

Technical Note: The bidirectional slide positioning repeatability (R) of an axis is the maximum value of the repeatability of positioning at any position along or around the axis determined using the procedure and under the conditions specified in part 2.11 of ISO 230/2: 1988.

b. Fly cutting machines having all of the following characteristics:

b.1. Spindle ''run out'' and ''camming'' less (better) than 0.0004 mm TIR; *and*

b.2. Angular deviation of slide movement (yaw, pitch and roll) less (better) than 2 seconds of arc, TIR, over full travel.

2B993 Gearmaking and/or finishing machinery not controlled by 2B003 capable of producing gears to a quality level of better than AGMA 11.

LICENSE REQUIREMENTS

Reason for Control: AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading.

2B996 Dimensional inspection or measuring systems or equipment not controlled by 2B006 or 2B206, as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: a. Manual dimensional inspection machines, having both of the following characteristics:

a.1. Two or more axes; *and*

a.2. A measurement uncertainty equal to or less (better) than (3 + L/300) micrometer in any axes (L measured length in mm).

2B997 "Robots" not controlled by 2B007 or 2B207 that are capable of employing feedback information in real-time processing from one or more sensors to generate or modify "programs" or to generate or modify numerical program data.

LICENSE REQUIREMENTS

Reason for Control: AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading.

2B998 Assemblies, circuit boards or inserts "specially designed" for machine tools controlled by 2B991, or for equipment controlled by 2B993, 2B996 or 2B997.

LICENSE REQUIREMENTS

Reason for Control: AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: This entry does not control measuring interferometer systems, without closed or open loop feedback, containing a laser to measure slide movement errors of machine-tools, dimensional inspection machines or similar equipment.

Related Definition: N/A

Items: a. Spindle assemblies, consisting of spindles and bearings as a minimal assembly, with radial (''run out'') or axial (''camming'') axis motion in one revolution of the spindle less (better) than 0.0006 mm total indicator reading (TIR);

b. Single point diamond cutting tool inserts, having all of the following characteristics:

b.1. Flawless and chip-free cutting edge when magnified 400 times in any direction;

b.2. Cutting radius from 0.1 to 5 mm inclusive; *and*

b.3. Cutting radius out-of-roundness less (better) than 0.002 mm TIR.

c. ''Specially designed'' printed circuit boards with mounted ''parts'' or ''components'' capable of upgrading, according to the manufacturer's specifications, ''numerical control'' units, machine tools or feedback devices to or above the levels specified in ECCNs 2B991, 2B993, 2B996, 2B997, or 2B998.

2B999 Specific Processing Equipment, n.e.s., as Follows (See List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: AT

Control(s):

Country Chart. AT applies to entire entry. A license is required for items controlled by this entry to North Korea for anti-terrorism reasons. The Commerce Country Chart is not designed to determine AT licensing requirements for this entry. See §742.19 of the EAR for additional information.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: (1) See also 1B233, 2A992, 2A993, 2B001.f, 2B004, 2B009, 2B104, 2B109, 2B204, 2B209, 2B228, 2B229, 2B231, and 2B350. (2) Certain nuclear related processing equipment is subject to the export licensing authority of the Nuclear Regulatory Commission (see 10 CFR part 110).

Related Definitions: N/A

Items: a. Isostatic presses, n.e.s.;

b. Bellows manufacturing equipment, including hydraulic forming equipment and bellows forming dies;

c. Laser welding machines;

d. MIG welders;

e. E-beam welders;

f. Monel equipment, including valves, piping, tanks and vessels;

g. 304 and 316 stainless steel valves, piping, tanks and vessels;

Note: Fittings are considered part of ''piping'' for purposes of 2B999.g.

h. Mining and drilling equipment, as follows:

h.1. Large boring equipment capable of drilling holes greater than two feet in diameter;

h.2. Large earth-moving equipment used in the mining industry;

i. Electroplating equipment designed for coating parts with nickel or aluminum;

j. Pumps designed for industrial service and for use with an electrical motor of 5 HP or greater;

k. Vacuum valves, piping, flanges, gaskets and related equipment ''specially designed'' for use in high-vacuum service, n.e.s.;

l. Spin forming and flow forming machines, n.e.s.;

m. Centrifugal multiplane balancing machines, n.e.s.;

n. Austenitic stainless steel plate, valves, piping, tanks and vessels.

C. ''MATERIALS'' [RESERVED]

D. ''SOFTWARE''

2D001 "Software", other than that controlled by 2D002, as follows (See list of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, MT, NP, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 1
MT applies to "software" for equipment controlled by 2B004 and 2B009 for MT reasons.	MT Column 1
NP applies to "specially designed" or modified "software" for equipment controlled by 2B001 for NP reasons, and to "specially designed" "software" for equipment controlled by 2B004, 2B006, 2B007, or 2B009 for NP reasons.	NP Column 1
AT applies to entire entry	AT Column 1

REPORTING REQUIREMENTS See §743.1 of the EAR for reporting requirements for exports under License Exceptions, and Validated End-User authorizations

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: Yes, except N/A for MT

SPECIAL CONDITIONS FOR STA

STA: License Exception STA may not be used to ship or transmit ''software'', other than that specified by ECCN 2D002, ''specially designed'' for the ''development'' or ''production'' of equipment as follows: ECCN 2B001 entire entry; or ''Numerically controlled'' or manual machine tools as specified in 2B003 to any of the destinations listed in Country Group A:6 (See Supplement No. 1 to part 740 of the EAR).

LIST OF ITEMS CONTROLLED

Related Controls: (1) See ECCNs 2E001 (''development'') and 2E101 (''use'') for technology for ''software'' controlled under this entry. (2) *Also see* ECCNs 2D101 and 2D201.

Related Definitions: N/A

Items: a. ''Software'' ''specially designed'' or modified for the ''development'' or ''production'' of equipment controlled by 2A001 or 2B001 to 2B009;

b. ''Software'' ''specially designed'' or modified for the ''use'' of equipment specified by 2A001.c., 2B001, or 2B003 to 2B009.

Note: 2D001 does not apply to part programming ''software'' that generates ''numerical control'' codes for machining various parts.

2D002 "Software" for electronic devices, even when residing in an electronic device or system, enabling such devices or systems to function as a "numerical control" unit, capable of coordinating simultaneously more than 4 axes for "contouring control".

LICENSE REQUIREMENTS

Reason for Control: NS, NP, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 1.
NP applies to entire entry	NP Column 1.
AT applies to entire entry	AT Column 1.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: Yes

LIST OF ITEMS CONTROLLED

Related Controls: (1) See ECCNs 2E001 (''development'') and 2E201 (''use'') for technology for ''software'' controlled under this entry. (2) Also see ECCN 2D202.

Related Definitions: N/A

Items:

Note 1: 2D002 does not control ''software'' ''specially designed'' or modified for the operation of items not specified by Category 2.

Note 2: 2D002 does not control ''software'' for items specified by 2B002. See 2D001 and 2D003 for ''software'' for items specified by 2B002.

Note 3: 2D002 does not apply to ''software'' that is exported with, and the minimum necessary for the operation of, items not specified by Category 2.

The list of items controlled is contained in the ECCN heading.

2D003 "Software", designed or modified for the operation of equipment specified by 2B002, that converts optical design, workpiece measurements and material removal functions into "numerical control" commands to achieve the desired workpiece form.

LICENSE REQUIREMENTS

Reason for Control: NS, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 2.
AT applies to entire entry	AT Column 1.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: Yes.

LIST OF ITEMS CONTROLLED

Related Controls: See ECCN *2E001* (''development'') for technology for ''software'' controlled under this entry.

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading.

2D018 "Software" for the "development", "production" or "use" of equipment controlled by 2B018.

LICENSE REQUIREMENTS

Reason for Control: NS, MT, AT, UN

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 1.
MT applies to ''software'' for equipment controlled by 2B018 for MT reasons.	MT Column 1.
AT applies to entire entry	AT Column 1.
UN applies to entire entry.	See §746.1(b) for UN controls.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: Yes.

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading.

2D101 "Software" "specially designed" or modified for the "use" of equipment controlled by 2B104, 2B105, 2B109, 2B116, 2B117, or 2B119 to 2B122.

LICENSE REQUIREMENTS

Reason for Control: MT, NP, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
MT applies to entire entry	MT Column 1.
NP applies to ''software'' ''specially designed'' for the use'' of items controlled by 2B104, 2B109, or 2B116 for NP reasons.	NP Column 1.
AT applies to entire entry	AT Column 1.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

LIST OF ITEMS CONTROLLED

Related Controls: (1) See ECCNs 2E001 (''development'') and 2E101 (''use'') for technology for ''software'' controlled under this entry. (2) *Also see* ECCN 9D004.

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading.

2D201 "Software" "specially designed" or modified for the "use" of equipment controlled by 2B204, 2B206, 2B207, 2B209, 2B227, or 2B229.

LICENSE REQUIREMENTS

Reason for Control: NP, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NP applies to entire entry	NP Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

LIST OF ITEMS CONTROLLED

Related Controls: (1) See ECCNs 2E001 (''development'') and 2E201 (''use'') for technology for ''software'' controlled under this entry. (2) Also see ECCNs 2D002 and 2D202.

Related Definitions: N/A

ECCN Controls: ''Software'' ''specially designed'' or modified for systems controlled by 2B206.b includes ''software'' for simultaneous measurements of wall thickness and contour.

Items: The list of items controlled is contained in the ECCN heading.

2D202 "Software" "specially designed" or modified for the "development", "production" or "use" of equipment controlled by 2B201.

LICENSE REQUIREMENTS

Reason for Control: NP, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NP applies to entire entry	NP Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

ECCN Controls: ECCN 2D202 does not control part programming ''software'' that generates ''numerical control'' command codes, but does not allow direct use of equipment for machining various parts.

Items: The list of items controlled is contained in the ECCN heading.

2D290 "Software" "specially designed" or modified for the "development," "production," or "use" of items controlled by 2A290 or 2A291.

LICENSE REQUIREMENTS

Reason for Control: NP, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NP applies to entire entry	NP Column 2
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

LIST OF ITEMS CONTROLLED

Related Controls: See ECCN 2E001 (''development'') for technology for ''software'' controlled under this entry.

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading.

2D351 Dedicated "software" for toxic gas monitoring systems and their dedicated detecting "parts" and "components" controlled by ECCN 2B351.

LICENSE REQUIREMENTS

Reason for Control: CB, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
CB applies to entire entry	CB Column 2.
AT applies to entire entry	AT Column 1.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: (1) For the purposes of this entry, the term ''dedicated'' means committed entirely to a single purpose or device. (2) See Section 772.1 of the EAR for the definitions of ''software,'' ''program,'' and ''microprogram.''

Items: The list of items controlled is contained in the ECCN heading.

2D983 "Software" "specially designed" or modified for the "development", "production" or "use" of equipment controlled by 2A983.

LICENSE REQUIREMENTS

*Reason for Control:*RS, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
RS applies to entire entry	RS Column 2
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading.

2D984 "Software" "required" for the "development", "production" or "use" of concealed object detection equipment controlled by 2A984.

LICENSE REQUIREMENTS

Reason for Control: RS, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
RS applies to entire entry	RS Column 2.
AT applies to entire entry	AT Column 1.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

LIST OF ITEMS CONTROLLED

Related Controls: (1) ''Software'' ''required'' for the ''development,'' ''production'' or ''use'' of concealed object detection equipment operating in the frequency range from 30 GHz to 3000 GHz and having a spatial resolution less than 0.5 milliradian (a lower milliradian number means a more accurate image resolution) at a standoff distance of 100 meters is ''subject to the ITAR'' (see 22 CFR parts 120 through 130). (2) ''Software'' ''required'' for the ''development'', ''production'' or ''use'' of concealed object detection equipment operating in the frequency range from 30 GHz to 3000 GHz and having a spatial resolution greater than 1 milliradian spatial resolution (a higher milliradian number means a less accurate image resolution) at a standoff distance of 100 meters is designated as EAR99. (3) See ECCNs 2A984 and 2E984 for related commodity and technology controls.

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading.

2D991 "Software" "specially designed" for the "development", "production", or "use" of equipment controlled by 2B991, 2B993, or 2B996, 2B997, and 2B998.

LICENSE REQUIREMENTS

Reason for Control: AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading.

2D992 Specific "software", as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: a. ''Software'' to provide ''adaptive control'' and having both of the following characteristics:

a.1. For ''flexible manufacturing units'' (FMUs) which consist at least of equipment described in b.1 and b.2 of the definition of ''flexible manufacturing unit'' contained in part 772 of the EAR; *and*

a.2. Capable of generating or modifying, in ''real time processing'', programs or data by using the signals obtained simultaneously by means of at least two detection techniques, such as:

a.2.a. Machine vision (optical ranging);

a.2.b. Infrared imaging;

a.2.c. Acoustical imaging (acoustical ranging);

a.2.d. Tactile measurement;

a.2.e. Inertial positioning;

a.2.f. Force measurement; *and*

a.2.g. Torque measurement.

Note: 2D992.a does not control ''software'' which only provides rescheduling of functionally identical equipment within ''flexible manufacturing units'' using pre-stored part programs and a pre-stored strategy for the distribution of the part programs.

b. Reserved.

2D993 "Software" "specially designed" or modified for the "development," "production," or "use" of items controlled by 2A992 or 2A993.

LICENSE REQUIREMENTS

Reason for Control: AT

Control(s)	Country chart (see supp. no. 1 to part 738)
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

LIST OF ITEMS CONTROLLED

Related Controls: See ECCN 2E001 (''development'') for ''technology'' for ''software'' controlled under this entry.
Related Definitions: N/A
Items: The list of items controlled is contained in the ECCN heading.

2D994 "Software" "specially designed" for the "development" or "production" of portable electric generators controlled by 2A994.

LICENSE REQUIREMENTS
Reason for Control: AT
Control(s): AT applies to entire entry. A license is required for items controlled by this entry to Iran and North Korea for anti-terrorism reasons. The Commerce Country Chart is not designed to determine licensing requirements for this entry. See part 746 of the EAR for additional information on Iran. See §742.19 of the EAR for additional information on North Korea.
LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
CIV: N/A
TSR: N/A
LIST OF ITEMS CONTROLLED
Related Controls: N/A
Related Definitions: N/A
Items: The list of items controlled is contained in the ECCN heading.

E. ''TECHNOLOGY''

2E001 "Technology" according to the General Technology Note for the "development" of equipment or "software" controlled by 2A (except 2A983, 2A984, 2A991, or 2A994), 2B (except 2B991, 2B993, 2B996, 2B997, 2B998, or 2B999), or 2D (except 2D983, 2D984, 2D991, 2D992, or 2D994).

LICENSE REQUIREMENTS
Reason for Control: NS, MT, NP, CB, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to ''technology'' for items controlled by 2A001, 2B001 to 2B009, 2D001 or 2D002.	NS Column 1.
MT applies to ''technology'' for items controlled by 2B004, 2B009, 2B018, 2B104, 2B105, 2B109, 2B116, 2B117, 2B119 to 2B122, 2D001, or 2D101 for MT reasons.	MT Column 1.
NP applies to ''technology'' for items controlled by 2A225, 2A226, 2B001, 2B004, 2B006, 2B007, 2B009, 2B104, 2B109, 2B116, 2B201, 2B204, 2B206, 2B207, 2B209, 2B225 to 2B233, 2D001, 2D002, 2D101, 2D201 or 2D202 for NP reasons.	NP Column 1.
NP applies to ''technology'' for items controlled by 2A290, 2A291, or 2D290 for NP reasons.	NP Column 2.
CB applies to ''technology'' for equipment controlled by 2B350 to 2B352, valves controlled by 2A226 having the characteristics of those controlled by 2B350.g, and software controlled by 2D351.	CB Column 2.
AT applies to entire entry	AT Column 1.

REPORTING REQUIREMENTS See §743.1 of the EAR for reporting requirements for exports under License Exceptions, and Validated End-User authorizations
LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
CIV: N/A
TSR: Yes, except N/A for MT
SPECIAL CONDITIONS FOR STA
STA: License Exception STA may not be used to ship or transmit ''technology'' according to the General Technology Note for the ''development'' of ''software'' specified in the License Exception STA paragraph in the License Exception section of ECCN 2D001 or for the ''development'' of equipment as follows: ECCN 2B001 entire entry; or ''Numerically controlled'' or manual machine tools as specified in 2B003 to any of the destinations listed in Country Group A:6 (See Supplement No. 1 to part 740 of the EAR).
LIST OF ITEMS CONTROLLED
Related Controls: See also 2E101, 2E201, and 2E301
Related Definitions: N/A
Items: The list of items controlled is contained in the ECCN heading.

Note: ECCN 2E001 includes ''technology'' for the integration of probe systems into coordinate measurement machines specified by 2B006.a.

2E002 "Technology" according to the General Technology Note for the "production" of equipment controlled by 2A (except 2A983, 2A984, 2A991, or 2A994) or 2B (except 2B991, 2B993, 2B996, 2B997, 2B998, or 2B999).

LICENSE REQUIREMENTS
Reason for Control: NS, MT, NP, CB, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to ''technology'' for equipment controlled by 2A001, 2B001 to 2B009.	NS Column 1.
MT applies to ''technology'' for equipment controlled by 2B004, 2B009, 2B018, 2B104, 2B105, 2B109, 2B116, 2B117, or 2B119 to 2B122 for MT reasons.	MT Column 1.

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NP applies to ''technology'' for equipment controlled by 2A225, 2A226, 2B001, 2B004, 2B006, 2B007, 2B009, 2B104, 2B109, 2B116, 2B201, 2B204, 2B206, 2B207, 2B209, 2B225 to 2B233 for NP reasons.	NP Column 1.
NP applies to ''technology'' for equipment controlled by 2A290 or 2A291 for NP reasons.	NP Column 2.
CB applies to ''technology'' for equipment controlled by 2B350 to 2B352 and for valves controlled by 2A226 having the characteristics of those controlled by 2B350.g.	CB Column 2.
AT applies to entire entry	AT Column 1.

REPORTING REQUIREMENTS See §743.1 of the EAR for reporting requirements for exports under License Exceptions, and Validated End-User authorizations

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: Yes, except N/A for MT

SPECIAL CONDITIONS FOR STA

STA: License Exception STA may not be used to ship or transmit ''technology'' according to the General Technology Note for the ''production'' of equipment as follows: ECCN 2B001 entire entry; or ''Numerically controlled'' or manual machine tools as specified in 2B003 to any of the destinations listed in Country Group A:6 (See Supplement No. 1 to part 740 of the EAR).

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading.

2E003 Other "technology", as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: Yes, except 2E003.a, .b, .e and .f

LIST OF ITEMS CONTROLLED

Related Controls: See 2E001, 2E002, and 2E101 for ''development'' and ''use'' technology for equipment that are designed or modified for densification of carbon-carbon composites, structural composite rocket nozzles and reentry vehicle nose tips.

Related Definitions: N/A

Items: a. ''Technology'' for the ''development'' of interactive graphics as an integrated part in ''numerical control'' units for preparation or modification of part programs;

b. ''Technology'' for metal-working manufacturing processes, as follows:

b.1. ''Technology'' for the design of tools, dies or fixtures ''specially designed'' for any of the following processes:

b.1.a. ''Superplastic forming'';

b.1.b. ''Diffusion bonding''; *or*

b.1.c. ''Direct-acting hydraulic pressing'';

b.2. Technical data consisting of process methods or parameters as listed below used to control:

b.2.a. ''Superplastic forming'' of aluminum alloys, titanium alloys or ''superalloys'':

b.2.a.1. Surface preparation;

b.2.a.2. Strain rate;

b.2.a.3. Temperature;

b.2.a.4. Pressure;

b.2.b. ''Diffusion bonding'' of ''superalloys'' or titanium alloys:

b.2.b.1. Surface preparation;

b.2.b.2. Temperature;

b.2.b.3. Pressure;

b.2.c. ''Direct-acting hydraulic pressing'' of aluminum alloys or titanium alloys:

b.2.c.1. Pressure;

b.2.c.2. Cycle time;

b.2.d. ''Hot isostatic densification'' of titanium alloys, aluminum alloys or ''superalloys'':

b.2.d.1. Temperature;

b.2.d.2. Pressure;

b.2.d.3. Cycle time;

c. ''Technology'' for the ''development'' or ''production'' of hydraulic stretch-forming machines and dies therefor, for the manufacture of airframe structures;

d. ''Technology'' for the ''development'' of generators of machine tool instructions (e.g., part programs) from design data residing inside ''numerical control'' units;

e. ''Technology for the development'' of integration ''software'' for incorporation of expert systems for advanced decision support of shop floor operations into ''numerical control'' units;

f. ''Technology'' for the application of inorganic overlay coatings or inorganic surface modification coatings (specified in column 3 of the following table) to non-electronic substrates (specified in column 2 of the following table), by processes specified in column 1 of the following table and defined in the Technical Note.

N.B. This table should be read to control the technology of a particular 'Coating Process' only when the resultant coating in column 3 is in a paragraph directly across from the relevant

'Substrate' under column 2. For example, Chemical Vapor Deposition (CVD) 'coating process' technical data are controlled for the application of 'silicides' to 'Carbon-carbon, Ceramic and Metal ''matrix'' ''composites'' substrates, but are not controlled for the application of 'silicides' to 'Cemented tungsten carbide (16), Silicon carbide (18)' substrates. In the second case, the resultant coating is not listed in the paragraph under column 3 directly across from the paragraph under column 2 listing 'Cemented tungsten carbide (16), Silicon carbide (18) '.

CATEGORY 2E—MATERIALS PROCESSING TABLE; DEPOSITION TECHNIQUES

1. Coating process (1) [1]	2. Substrate	3. Resultant coating
A. Chemical Vapor Deposition (CVD)	''Superalloys''	Aluminides for internal passages
	Ceramics (19) and Low-expansion glasses (14).	Silicides Carbides Dielectric layers (15) Diamond Diamond-like carbon (17)
	Carbon-carbon, Ceramic, and Metal ''matrix'' ''composites''.	Silicides Carbides Refractory metals, Mixtures thereof (4) Dielectric layers (15) Aluminides Alloyed aluminides (2) Boron nitride
	Cemented tungsten carbide (16), Silicon Carbide (18).	Carbides Tungsten Mixtures thereof (4) Dielectric layers (15)
	Molybdenum and Molybdenum alloys	Dielectric layers (15)
	Beryllium and Beryllium alloys	Dielectric layers (15) Diamond Diamond-like carbon (17)
	Sensor window materials (9)	Dielectric layers (15) Diamond Diamond-like carbon (17)
B. Thermal Evaportation Physical Vapor		
1. Physical Vapor Deposition (PVD): Deposition (TE-PVD) Electron-Beam (EB-PVD).	''Superalloys''	Alloyed silicides Alloyed aluminides (2) McrAlX (5) Modified zirconia (12) Silicides Aluminides Mixtures thereof (4)
	Ceramics (19) and Low-expansion glasses (14).	Dielectric layers (15)
	Corrosion resistant steel (7)	MCrAlX (5) Modified zirconia (12) Mixtures thereof (4)
	Carbon-carbon, Ceramic and Metal ''matrix'' ''composites''.	Silicides Carbides Refractory metals Mixtures thereof (4) Dielectric layers (15) Boron nitride
	Cemented tungsten carbide (16), Silicon carbide (18).	Carbides Tungsten Mixtures thereof (4) Dielectric layers (15)
	Molybdenum and Molybdenum alloys	Dielectric layers (15)
	Beryllium and Beryllium alloys	Dielectric layers (15) Borides Beryllium
	Sensor window materials (9)	Dielectric layers (15)
	Titanium alloys (13)	Borides Nitrides
2. Ion assisted resistive heating. Physical Vapor Deposition (PVD) (Ion Plating).	Ceramics (19) and Low-expansion glasses (14).	Dielectric layers (15) Diamond-like carbon (17)
	Carbon-carbon, Ceramic and Metal ''matrix'' ''composites''.	Dielectric layers (15)
	Cemented tungsten carbide (16), Silicon carbide.	Dielectric layers (15)
	Molybdenum and Molybdenum alloys	Dielectric layers (15)
	Beryllium and Beryllium alloys	Dielectric layers (15)
	Sensor window materials (9)	Dielectric layers (15) Diamond-like carbon (17)

CATEGORY 2E—MATERIALS PROCESSING TABLE; DEPOSITION TECHNIQUES—Continued

1. Coating process (1) [1]	2. Substrate	3. Resultant coating
3. Physical Vapor Deposition (PVD): ''Laser'' Vaporization.	Ceramics (19) and Low-expansion glasses (14).	Silicides Dielectric layers (15) Diamond-like carbon (17)
	Carbon-carbon, Ceramic and Metal ''matrix'' ''composites''.	Dielectric layers (15)
	Cemented tungsten carbide (16), Silicon carbide.	Dielectric layers (15)
	Molybdenum and Molybdenum alloys	Dielectric layers (15)
	Beryllium and Beryllium alloys	Dielectric layers (15)
	Sensor window materials (9)	Dielectric layers (15) Diamond-like carbon
4. Physical Vapor Deposition (PVD): Cathodic Arc Discharge.	''Superalloys''	Alloyed silicides Alloyed Aluminides (2) MCrAlX (5)
	Polymers (11) and Organic ''matrix'' ''composites''.	Borides Carbides Nitrides Diamond-like carbon (17)
C. Pack cementation (see A above for out-of-pack cementation) (10).	Carbon-carbon, Ceramic and Metal ''matrix'' ''composites''.	Silicides Carbides Mixtures thereof (4)
	Titanium alloys (13)	Silicides Aluminides Alloyed aluminides (2)
	Refractory metals and alloys (8)	Silicides Oxides
D. Plasma spraying	''Superalloys''	MCrAlX (5) Modified zirconia (12) Mixtures thereof (4) Abradable Nickel-Graphite Abradable materials containing Ni-Cr-Al Abradable Al-Si-Polyester Alloyed aluminides (2)
	Aluminum alloys (6)	MCrAlX (5) Modified zirconia (12) Silicides Mixtures thereof (4)
	Refractory metals and alloys (8), Carbides, Corrosion resistant steel (7).	Aluminides Silicides MCrAlX (5) Modified zirconia (12) Mixtures thereof (4)
	Titanium alloys (13)	Carbides Aluminides Silicides Alloyed aluminides (2)
	Abradable, Nickel-Graphite	Abradable materials containing Ni-Cr-Al Abradable Al-Si-Polyester
E. Slurry Deposition	Refractory metals and alloys (8)	Fused silicides Fused aluminides except for resistance heating elements
	Carbon-carbon, Ceramic and Metal ''matrix'' ''composites''.	Silicides Carbides Mixtures thereof (4)
F. Sputter Deposition	''Superalloys''	Alloyed silicides Alloyed aluminides (2) Noble metal modified aluminides (3) McrAlX (5) Modified zirconia (12) Platinum Mixtures thereof (4)
	Ceramics and Low-expansion glasses (14).	Silicides Platinum Mixtures thereof (4) Dielectric layers (15) Diamond-like carbon (17)

CATEGORY 2E—MATERIALS PROCESSING TABLE; DEPOSITION TECHNIQUES—Continued

1. Coating process (1) [1]	2. Substrate	3. Resultant coating
	Titanium alloys (13)	Borides Nitrides Oxides Silicides Aluminides Alloyed aluminides (2) Carbides
	Carbon-carbon, Ceramic and Metal ''matrix'' ''Composites''.	Silicides Carbides Refractory metals Mixtures thereof (4) Dielectric layers (15) Boron nitride
	Cemented tungsten carbide (16), Silicon carbide (18).	Carbides Tungsten Mixtures thereof (4) Dielectric layers (15) Boron nitride
	Molybdenum and Molybdenum alloys	Dielectric layers (15)
	Beryllium and Beryllium alloys	Borides Dielectric layers (15) Beryllium
	Sensor window materials (9)	Dielectric layers (15) Diamond-like carbon (17)
	Refractory metals and alloys (8)	Aluminides Silicides Oxides Carbides
G. Ion Implantation	High temperature bearing steels	Additions of Chromium, Tantalum, or Niobium (Columbium)
	Titanium alloys (13)	Borides Nitrides
	Beryllium and Beryllium alloys	Borides
	Cemented tungsten carbide (16)	Carbides Nitrides

[1] The numbers in parenthesis refer to the Notes following this Table.

Notes to Table on Deposition Techniques

1. The term 'coating process' includes coating repair and refurbishing as well as original coating.

2. The term 'alloyed aluminide coating' includes single or multiple-step coatings in which an element or elements are deposited prior to or during application of the aluminide coating, even if these elements are deposited by another coating process. It does not, however, include the multiple use of single-step pack cementation processes to achieve alloyed aluminides.

3. The term 'noble metal modified aluminide' coating includes multiple-step coatings in which the noble metal or noble metals are laid down by some other coating process prior to application of the aluminide coating.

4. The term 'mixtures thereof' includes infiltrated material, graded compositions, co-deposits and multilayer deposits and are obtained by one or more of the coating processes specified in the Table.

5. MCrAlX refers to a coating alloy where M equals cobalt, iron, nickel or combinations thereof and X equals hafnium, yttrium, silicon, tantalum in any amount or other intentional additions over 0.01% by weight in various proportions and combinations, except:

a. CoCrAlY coatings which contain less than 22% by weight of chromium, less than 7% by weight of aluminum and less than 2% by weight of yttrium;

b. CoCrAlY coatings which contain 22 to 24% by weight of chromium, 10 to 12% by weight of aluminum and 0.5 to 0.7% by weight of yttrium; or

c. NiCrAlY coatings which contain 21 to 23% by weight of chromium, 10 to 12% by weight of aluminum and 0.9 to 1.1% by weight of yttrium.

6. The term 'aluminum alloys' refers to alloys having an ultimate tensile strength of 190 MPa or more measured at 293 K (20 °C).

7. The term 'corrosion resistant steel' refers to AISI (American Iron and Steel Institute) 300 series or equivalent national standard steels.

8. 'Refractory metals and alloys' include the following metals and their alloys: niobium (columbium), molybdenum, tungsten and tantalum.

9. 'Sensor window materials', as follows: alumina, silicon, germanium, zinc sulphide, zinc selenide, gallium arsenide, diamond, gallium phosphide, sapphire and the following metal halides: sensor window materials of more than 40 mm diameter for zirconium fluoride and hafnium fluoride.

10. ''Technology'' for single-step pack cementation of solid airfoils is not controlled by Category 2.

11. 'Polymers', as follows: polyimide, polyester, polysulfide, polycarbonates and polyurethanes.

12. 'Modified zirconia' refers to additions of other metal oxides, (e.g., calcia, magnesia, yttria, hafnia, rare earth oxides) to zirconia in order to stabilize certain crystallographic phases and phase compositions. Thermal barrier coatings made of zirconia, modified with calcia or magnesia by mixing or fusion, are not controlled.

13. 'Titanium alloys' refers only to aerospace alloys having an ultimate tensile strength of 900 MPa or more measured at 293 K (20 °C).

14. 'Low-expansion glasses' refers to glasses which have a coefficient of thermal expansion of 1×10^{-7} K^{-1} or less measured at 293 K (20 °C).

15. 'Dielectric layers' are coatings constructed of multi-layers of insulator materials in which the interference properties of a design composed of materials of various refractive indices are used to reflect, transmit or absorb various wavelength bands. Dielectric layers refers to more than four dielectric layers or dielectric/metal ''composite'' layers.

16. 'Cemented tungsten carbide' does not include cutting and forming tool materials consisting of tungsten carbide/(cobalt, nickel), titanium carbide/(cobalt, nickel), chromium carbide/nickel-chromium and chromium carbide/nickel.

17. ''Technology'' ''specially designed'' to deposit diamond-like carbon on any of the following is not controlled: magnetic disk drives and heads, equipment for the manufacture of disposables, valves for faucets, acoustic diaphragms for speakers, engine parts for automobiles, cutting tools, punching-pressing dies, office automation equipment, microphones, medical devices or molds, for casting or molding of plastics, manufactured from alloys containing less than 5% beryllium.

18. 'Silicon carbide' does not include cutting and forming tool materials.

19. Ceramic substrates, as used in this entry, does not include ceramic materials containing 5% by weight, or greater, clay or cement content, either as separate constituents or in combination.

Technical Note to Table on Deposition Techniques: Processes specified in Column 1 of the Table are defined as follows:

a. Chemical Vapor Deposition (CVD) is an overlay coating or surface modification coating process wherein a metal, alloy, ''composite'', dielectric or ceramic is deposited upon a heated substrate. Gaseous reactants are decomposed or combined in the vicinity of a substrate resulting in the deposition of the desired elemental, alloy or compound material on the substrate. Energy for this decomposition or chemical reaction process may be provided by the heat of the substrate, a glow discharge plasma, or ''laser'' irradiation.

Note 1: CVD includes the following processes: directed gas flow out-of-pack deposition, pulsating CVD, controlled nucleation thermal decomposition (CNTD), plasma enhanced or plasma assisted CVD processes.

Note 2: Pack denotes a substrate immersed in a powder mixture.

Note 3: The gaseous reactants used in the out-of-pack process are produced using the same basic reactions and parameters as the pack cementation process, except that the substrate to be coated is not in contact with the powder mixture.

b. Thermal Evaporation-Physical Vapor Deposition (TE-PVD) is an overlay coating process conducted in a vacuum with a pressure less than 0.1 Pa wherein a source of thermal energy is used to vaporize the coating material. This process results in the condensation, or deposition, of the evaporated species onto appropriately positioned substrates. The addition of gases to the vacuum chamber during the coating process to synthesize compound coatings is an ordinary modification of the process. The use of ion or electron beams, or plasma, to activate or assist the coating's deposition is also a common modification in this technique. The use of monitors to provide in-process measurement of optical characteristics and thickness of coatings can be a feature of these processes. Specific TE-PVD processes are as follows:

1. Electron Beam PVD uses an electron beam to heat and evaporate the material which forms the coating;

2. Ion Assisted Resistive Heating PVD employs electrically resistive heating sources in combination with impinging ion beam(s) to produce a controlled and uniform flux of evaporated coating species;

3. ''Laser'' Vaporization uses either pulsed or continuous wave ''laser'' beams to vaporize the material which forms the coating;

4. Cathodic Arc Deposition employs a consumable cathode of the material which forms the coating and has an arc discharge established on the surface by a momentary contact of a ground trigger. Controlled motion of arcing erodes the cathode surface creating a highly ionized plasma. The anode can be either a cone attached to the periphery of the cathode, through an insulator, or the chamber. Substrate biasing is used for non line-of-sight deposition.

Note: This definition does not include random cathodic arc deposition with non-biased substrates.

5. Ion Plating is a special modification of a general TE-PVD process in which a plasma or an ion source is used to ionize the species to be deposited, and a negative bias is applied to the substrate in order to facilitate the extraction of the species from the plasma. The introduction of reactive species, evaporation of solids within the process chamber, and the use of monitors to provide in-process measurement of optical characteristics and thicknesses of coatings are ordinary modifications of the process.

c. Pack Cementation is a surface modification coating or overlay coating process wherein a substrate is immersed in a powder mixture (a pack), that consists of:

1. The metallic powders that are to be deposited (usually aluminum, chromium, silicon or combinations thereof);

2. An activator (normally a halide salt); and

3. An inert powder, most frequently alumina.

Note: The substrate and powder mixture is contained within a retort which is heated to between 1,030 K (757 °C) to 1,375 K (1,102 °C) for sufficient time to deposit the coating.

d. Plasma Spraying is an overlay coating process wherein a gun (spray torch) which produces and controls a plasma accepts powder or wire coating materials, melts them and propels them towards a substrate, whereon an integrally bonded coating is formed. Plasma spraying constitutes either low pressure plasma spraying or high velocity plasma spraying.

Note 1: Low pressure means less than ambient atmospheric pressure.

Note 2: High velocity refers to nozzle-exit gas velocity exceeding 750 m/s calculated at 293 K (20 °C) at 0.1 MPa.

e. Slurry Deposition is a surface modification coating or overlay coating process wherein a metallic or ceramic powder with an organic binder is suspended in a liquid and is applied to a substrate by either spraying, dipping or painting, subsequent air or oven drying, and heat treatment to obtain the desired coating.

f. Sputter Deposition is an overlay coating process based on a momentum transfer phenomenon, wherein positive ions are accelerated by an electric field towards the surface of a target (coating material). The kinetic energy of the impacting ions is sufficient to cause target surface atoms to be released and deposited on an appropriately positioned substrate.

Note 1: The Table refers only to triode, magnetron or reactive sputter deposition which is used to increase adhesion of the coating and rate of deposition and to radio frequency (RF) augmented sputter deposition used to permit vaporization of non-metallic coating materials.

Note 2: Low-energy ion beams (less than 5 keV) can be used to activate the deposition.

g. Ion Implantation is a surface modification coating process in which the element to be alloyed is ionized, accelerated through a potential gradient and implanted into the surface region of the substrate. This includes processes in which ion implantation is performed simultaneously with electron beam physical vapor deposition or sputter deposition.

Accompanying Technical Information to Table on Deposition Techniques:

1. ''Technology'' for pretreatments of the substrates listed in the Table, as follows:

a. Chemical stripping and cleaning bath cycle parameters, as follows:

1. Bath composition;

a. For the removal of old or defective coatings corrosion product or foreign deposits;

b. For preparation of virgin substrates;

2. Time in bath;

3. Temperature of bath;

4. Number and sequences of wash cycles;

b. Visual and macroscopic criteria for acceptance of the cleaned part;

c. Heat treatment cycle parameters, as follows:

1. Atmosphere parameters, as follows:

a. Composition of the atmosphere;

b. Pressure of the atmosphere;

2. Temperature for heat treatment;

3. Time of heat treatment;

d. Substrate surface preparation parameters, as follows:

1. Grit blasting parameters, as follows:

a. Grit composition;

b. Grit size and shape;

c. Grit velocity;

2. Time and sequence of cleaning cycle after grit blast;

3. Surface finish parameters;

4. Application of binders to promote adhesion;

e. Masking technique parameters, as follows:

1. Material of mask;

2. Location of mask;

2. ''Technology'' for in situ quality assurance techniques for evaluation of the coating processes listed in the Table, as follows:

a. Atmosphere parameters, as follows:

1. Composition of the atmosphere;

2. Pressure of the atmosphere;

b. Time parameters;

c. Temperature parameters;

d. Thickness parameters;

e. Index of refraction parameters;

f. Control of composition;

3. ''Technology'' for post deposition treatments of the coated substrates listed in the Table, as follows:

a. Shot peening parameters, as follows:

1. Shot composition;

2. Shot size;

3. Shot velocity;

b. Post shot peening cleaning parameters;

c. Heat treatment cycle parameters, as follows:

1. Atmosphere parameters, as follows:

a. Composition of the atmosphere;

b. Pressure of the atmosphere;

2. Time-temperature cycles;

d. Post heat treatment visual and macroscopic criteria for acceptance of the coated substrates;

4. ''Technology'' for quality assurance techniques for the evaluation of the coated substrates listed in the Table, as follows:

a. Statistical sampling criteria;

b. Microscopic criteria for:

1. Magnification;

2. Coating thickness, uniformity;

3. Coating integrity;

4. Coating composition;

5. Coating and substrates bonding;

6. Microstructural uniformity.

c. Criteria for optical properties assessment (measured as a function of wavelength):

1. Reflectance;

2. Transmission;

3. Absorption;

4. Scatter;

5. ''Technology'' and parameters related to specific coating and surface modification processes listed in the Table, as follows:
a. For Chemical Vapor Deposition (CVD):
1. Coating source composition and formulation;
2. Carrier gas composition;
3. Substrate temperature;
4. Time-temperature-pressure cycles;
5. Gas control and part manipulation;
b. For Thermal Evaporation-Physical Vapor Deposition (PVD):
1. Ingot or coating material source composition;
2. Substrate temperature;
3. Reactive gas composition;
4. Ingot feed rate or material vaporization rate;
5. Time-temperature-pressure cycles;
6. Beam and part manipulation;
7. ''Laser'' parameters, as follows:
a. Wave length;
b. Power density;
c. Pulse length;
d. Repetition ratio;
e. Source;
c. For Pack Cementation:
1. Pack composition and formulation;
2. Carrier gas composition;
3. Time-temperature-pressure cycles;
d. For Plasma Spraying:
1. Powder composition, preparation and size distributions;
2. Feed gas composition and parameters;
3. Substrate temperature;
4. Gun power parameters;
5. Spray distance;
6. Spray angle;
7. Cover gas composition, pressure and flow rates;
8. Gun control and part manipulation;
e. For Sputter Deposition:
1. Target composition and fabrication;
2. Geometrical positioning of part and target;
3. Reactive gas composition;
4. Electrical bias;
5. Time-temperature-pressure cycles;
6. Triode power;
7. Part manipulation;
f. For Ion Implantation:
1. Beam control and part manipulation;
2. Ion source design details;
3. Control techniques for ion beam and deposition rate parameters;
4. Time-temperature-pressure cycles.
g. For Ion Plating:
1. Beam control and part manipulation;
2. Ion source design details;
3. Control techniques for ion beam and deposition rate parameters;
4. Time-temperature-pressure cycles;
5. Coating material feed rate and vaporization rate;
6. Substrate temperature;
7. Substrate bias parameters.

2E018 "Technology" for the "use" of equipment controlled by 2B018.

LICENSE REQUIREMENTS
Reason for Control: NS, MT, AT, UN

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 1.
MT applies to "technology" for equipment controlled by 2B018 for MT reasons.	MT Column 1.
AT applies to entire entry	AT Column 1.
UN applies to entire entry.	See §746.1(b) for UN controls.

CIV: N/A
TSR: Yes.
LIST OF ITEMS CONTROLLED
Related Controls: N/A
Related Definitions: N/A
Items: The list of items controlled is contained in the ECCN heading.

2E101 "Technology" according to the General Technology Note for the "use" of equipment or "software" controlled by 2B004, 2B009, 2B104, 2B105, 2B109, 2B116, 2B117, 2B119 to 2B122, 2D001, 2D002 or 2D101.

LICENSE REQUIREMENTS
Reason for Control: MT, NP, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
MT applies to "technology" for items controlled by 2B004, 2B009, 2B104, 2B105, 2B109, 2B116, 2B117, 2B119 to 2B122, 2D001, or 2D101 for MT reasons.	MT Column 1
NP applies to "technology" for items controlled by 2B004, 2B009, 2B104, 2B109, 2B116, 2D001, 2D002 or 2D101 for NP reasons.	NP Column 1
AT applies to entire entry.	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
CIV: N/A
TSR: N/A
LIST OF ITEMS CONTROLLED
Related Controls: (1) This entry controls only ''technology'' for 2B009 and 2B109 for spin forming machines combining the functions of spin forming and flow forming, and flow forming machines. (2) Also see 2E201.
Related Definitions: N/A
Items: The list of items controlled is contained in the ECCN heading.

2E201 "Technology" according to the General Technology Note for the "use" of equipment or "software" controlled by 2A225, 2A226, 2B001, 2B006, 2B007.b, 2B007.c, 2B201, 2B204, 2B206, 2B207, 2B209, 2B225 to 2B233, 2D002, 2D201 or 2D202 for NP reasons.

LICENSE REQUIREMENTS
Reason for Control: NP, CB, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NP applies to entire entry	NP Column 1.
CB applies to ''technology'' for valves controlled by 2A226 that meet or exceed the technical parameters in 2B350.g.	CB Column 2.
AT applies to entire entry	AT Column 1.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
CIV: N/A
TSR: N/A
LIST OF ITEMS CONTROLLED
Related Controls: Also see 2E290 and 2E991.
Related Definitions: N/A
Items: The list of items controlled is contained in the ECCN heading.

2E290 "Technology" according to the General Technology Note for the "use" of equipment controlled by 2A290 or 2A291.
LICENSE REQUIREMENTS
Reason for Control: NP, AT

Control(s)	Country chart (see supp. no. 1 to part 738)
NP applies to entire entry	NP Column 2
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
CIV: N/A
TSR: N/A
LIST OF ITEMS CONTROLLED
Related Controls: N/A
Related Definitions: N/A
Items: The list of items controlled is contained in the ECCN heading.

2E301 "Technology" according to the "General Technology Note" for the "use" of items controlled by 2B350, 2B351 and 2B352.
LICENSE REQUIREMENTS
Reason for Control: CB, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
CB applies to entire entry	CB Column 2.
AT applies to entire entry	AT Column 1.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
CIV: N/A
TSR: N/A
LIST OF ITEMS CONTROLLED
Related Controls: N/A
Related Definitions: N/A
Items: The lists of items controlled are contained in the ECCN headings.

2E983 "Technology" "specially designed" or modified for the "development", "production" or "use" of equipment controlled by 2A983, or the "development" of software controlled by 2D983.
LICENSE REQUIREMENTS
*Reason for Control:*RS, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
RS applies to entire entry	RS Column 2
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
CIV: N/A
TSR: N/A
LIST OF ITEMS CONTROLLED
Related Controls: N/A
Related Definitions: N/A
Items: The list of items controlled is contained in the ECCN heading.

2E984 "Technology" "required" for the "development", "production" or "use" of equipment controlled by 2A984 or "required" for the "development" of "software" controlled by 2D984.
LICENSE REQUIREMENTS
Reason for Control: RS, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
RS applies to entire entry	RS Column 2.
AT applies to entire entry	AT Column 1.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
CIV: N/A
TSR: N/A
LIST OF ITEMS CONTROLLED
Related Controls: (1) ''Technology'' ''required'' for the ''development,'' ''production'' or ''use'' of concealed object detection equipment operating in the frequency range from 30 GHz to 3000 GHz and having a spatial resolution less than 0.5 milliradian (a lower milliradian number means a more accurate image resolution) at a standoff distance of 100 meters or ''required'' for the ''development'' of ''software'' ''required'' for the ''development,'' ''production'' or ''use'' of concealed object detection equipment operating in the frequency range from 30 GHz to 3000 GHz and having a spatial resolution less than 0.5 milliradian at a standoff distance of 100 meters is ''subject to the ITAR'' (see 22 CFR parts 120 through 130). (2) ''Technology'' ''required'' for the ''development'', ''production'' or ''use'' of concealed object detection equipment operating in the frequency range from 30 GHz to 3000 GHz and having a spatial resolution greater than 1 milliradian spatial resolution (a higher

milliradian number means a less accurate image resolution) at a standoff distance of 100 meters or ''required'' for the ''development'' of ''software'' ''required'' for the ''development'', ''production'' or ''use'' of concealed object detection equipment operating in the frequency range from 30 GHz to 3000 GHz and having a spatial resolution greater than 1 milliradian spatial resolution (a higher milliradian number means a less accurate image resolution) at a standoff distance of 100 meters is designated as EAR99. (3) See ECCNs 2A984 and 2D984 for related commodity and software controls.

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading.

2E991 "Technology" for the "use" of equipment controlled by 2B991, 2B993, 2B996, or 2B997.

LICENSE REQUIREMENTS

Reason for Control: AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading.

2E993 "Technology" according to the General Technology Note for the "use" of equipment controlled by 2A992 or 2A993.

LICENSE REQUIREMENTS

Reason for Control: AT

Control(s)	Country chart (see supp. no. 1 to part 738)
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading.

2E994 "Technology" for the "use" of portable electric generators controlled by 2A994.

LICENSE REQUIREMENTS

Reason for Control: AT

Control(s): AT applies to entire entry. A license is required for items controlled by this entry to Iran and North Korea for anti-terrorism reasons. The Commerce Country Chart is not designed to determine licensing requirements for this entry. See part 746 of the EAR for additional information on Iran. See §742.19 of the EAR for additional information on North Korea.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading.

EAR99 Items Subject to the EAR That Are *Not* Elsewhere Specified in This CCL Category *or* in Any Other Category in the CCL Are Designated by the Number EAR99.

CATEGORY 3—ELECTRONICS

A. ''END ITEMS'', ''EQUIPMENT'', ''ACCESSORIES'', ''ATTACHMENTS'', ''PARTS'', ''COMPONENTS'' AND ''SYSTEMS''

Note 1: The control status of equipment and components described in 3A001 or 3A002, other than those described in 3A001.a.3 to 3A001.a.10, 3A001.a.12 or 3A001.a.13, which are ''specially designed'' for or which have the same functional characteristics as other equipment is determined by the control status of the other equipment.

Note 2: The control status of integrated circuits described in 3A001.a.3 to 3A001.a.9, 3A001.a.12 or 3A001.a.13 that are unalterably programmed or designed for a specific function for other equipment is determined by the control status of the other equipment.

N.B.: When the manufacturer or applicant cannot determine the control status of the other equipment, the control status of the integrated circuits is determined in 3A001.a.3 to 3A001.a.9, 3A001.a.12 and 3A001.a.13.

3A001 Electronic items as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, RS, MT, NP, AT

Control(s)	Country chart (see Supp. No. 1 to part 738)
NS applies to Microwave "Monolithic Integrated Circuits" (MMIC) power amplifiers in 3A001.b.2 and discrete microwave transistors in 3A001.b.3, except those 3A001.b.2 and b.3 items being exported or reexported for use in civil telecommunications applications.	NS Column 1
NS applies to entire entry	NS Column 2

Control(s)	Country chart (see Supp. No. 1 to part 738)
RS applies to Microwave "Monolithic Integrated Circuits" (MMIC) power amplifiers in 3A001.b.2 and discrete microwave transistors in 3A001.b.3, except those 3A001.b.2 and b.3 items being exported or reexported for use in civil telecommunications applications.	RS Column 1
MT applies to 3A001.a.1.a when usable in "missiles"; and to 3A001.a.5.a when "designed or modified" for military use, hermetically sealed and rated for operation in the temperature range from below −54 °C to above +125 °C.	MT Column 1
NP applies to pulse discharge capacitors in in 3A001.e.2 and superconducting solenoidal electromagnets in 3A001.e.3 that meet or exceed the technical parameters in 3A201.a and 3A201.b, respectively.	NP Column 1
AT applies to entire entry	AT Column 1

License Requirements Note: See § 744.17 of the EAR for additional license requirements for microprocessors having a processing speed of 5 GFLOPS or more and an arithmetic logic unit with an access width of 32 bit or more, including those incorporating ''information security'' functionality, and associated ''software'' and ''technology'' for the ''production'' or ''development'' of such microprocessors.

REPORTING REQUIREMENTS See § 743.1 of the EAR for reporting requirements for exports under License Exceptions, and Validated End-User authorizations

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A for MT or NP; N/A for Microwave ''Monolithic Integrated Circuits'' (MMIC) power amplifiers in 3A001.b.2 and discrete microwave transistors in 3A001.b.3, except those that are being exported or reexported for use in civil telecommunications applications

Yes for:

$1500: 3A001.c

$3000: 3A001.b.1, b.2 (exported or reexported for use in civil telecommunications applications), b.3 (exported or reexported for use in civil telecommunications applications), b.9, .d, .e, .f, and .g.

$5000: 3A001.a (except a.1.a and a.5.a when controlled for MT), and .b.4 to b.7.

GBS: Yes for 3A001.a.1.b, a.2 to a.13 (except .a.5.a when controlled for MT), b.2 (exported or reexported for use in civil telecommunications applications), b.8 (except for TWTAs exceeding 18 GHz), b.9., b.10, .g, and .h.

CIV: Yes for 3A001.a.3, a.7, and a.11.

SPECIAL CONDITIONS FOR STA

STA: License Exception STA may not be used to ship any item in 3A001.b.2 or b.3, except those that are being exported or reexported for use in civil telecommunications applications, to any of the destinations listed in Country Group A:5 or A:6 (See Supplement No. 1 to part 740 of the EAR).

LIST OF ITEMS CONTROLLED

Related Controls: (1) See Category XV of the USML for certain ''space-qualified'' electronics and Category XI of the USML for certain ASICs ''subject to the ITAR'' (see 22 CFR parts 120 through 130). (2) See also 3A101, 3A201, 3A611, 3A991, and 9A515.

Related Definitions: 'Microcircuit' means a device in which a number of passive or active elements are considered as indivisibly associated on or within a continuous structure to perform the function of a circuit. For the purposes of integrated circuits in 3A001.a.1, 5×10^3 Gy(Si) = 5×10^5 Rads (Si); 5×10^6 Gy (Si)/s = 5×10^8 Rads (Si)/s. Spacecraft/satellite: solar concentrators, power conditioners and or controllers, bearing and power transfer assembly, and or deployment hardware/systems are controlled under the export licensing authority of the Department of State, Directorate of Defense Trade Controls (22 CFR part 121).

Items: a. General purpose integrated circuits, as follows:

Note 1: The control status of wafers (finished or unfinished), in which the function has been determined, is to be evaluated against the parameters of 3A001.a.

Note 2: Integrated circuits include the following types:

—Monolithic integrated circuits;

—Hybrid integrated circuits;

—Multichip integrated circuits;

—Film type integrated circuits, including silicon-on-sapphire integrated circuits;

—Optical integrated circuits;

—''Three dimensional integrated circuits''.n

a.1. Integrated circuits designed or rated as radiation hardened to withstand any of the following:

a.1.a. A total dose of 5×10^3 Gy (Si), or higher;

a.1.b. A dose rate upset of 5×10^6 Gy (Si)/s, or higher; *or*

a.1.c. A fluence (integrated flux) of neutrons (1 MeV equivalent) of 5×10^{13} n/cm^2 or higher on silicon, or its equivalent for other materials;

Note: 3A001.a.1.c does not apply to Metal Insulator Semiconductors (MIS).

a.2. ''Microprocessor microcircuits'', ''microcomputer microcircuits'', microcontroller microcircuits, storage integrated circuits manufactured from a compound semiconductor, analog-to-digital converters,

digital-to-analog converters, electro-optical or ''optical integrated circuits'' designed for ''signal processing'', field programmable logic devices, custom integrated circuits for which either the function is unknown or the control status of the equipment in which the integrated circuit will be used is unknown, Fast Fourier Transform (FFT) processors, electrical erasable programmable read-only memories (EEPROMs), flash memories or static random-access memories (SRAMs), having any of the following:

a.2.a. Rated for operation at an ambient temperature above 398 K (125 °C);

a.2.b. Rated for operation at an ambient temperature below 218 K (−55 °C); *or*

a.2.c. Rated for operation over the entire ambient temperature range from 218 K (−55 °C) to 398 K (125 °C);

Note: 3A001.a.2 does not apply to integrated circuits for civil automobile or railway train applications.

a.3. ''Microprocessor microcircuits'', ''microcomputer microcircuits'' and microcontroller microcircuits, manufactured from a compound semiconductor and operating at a clock frequency exceeding 40 MHz;

Note: 3A001.a.3 includes digital signal processors, digital array processors and digital coprocessors.

a.4. [Reserved]

a.5. Analog-to-Digital Converter (ADC) and Digital-to-Analog Converter (DAC) integrated circuits, as follows:

a.5.a. ADCs having any of the following:

a.5.a.1. A resolution of 8 bit or more, but less than 10 bit, with an output rate greater than 1 billion words per second;

a.5.a.2. A resolution of 10 bit or more, but less than 12 bit, with an output rate greater than 500 million words per second;

a.5.a.3. A resolution of 12 bit or more, but less than 14 bit, with an output rate greater than 200 million words per second;

a.5.a.4. A resolution of 14 bit or more, but less than 16 bit, with an output rate greater than 250 million words per second; *or*

a.5.a.5. A resolution of 16 bit or more with an output rate greater than 65 million words per second;

Technical Notes: 1. A resolution of n bit corresponds to a quantization of 2^n levels.

2. The number of bits in the output word is equal to the resolution of the ADC.

3. The output rate is the maximum output rate of the converter, regardless of architecture or oversampling.

4. For 'multiple channel ADCs', the outputs are not aggregated and the output rate is the maximum output rate of any single channel.

5. For 'interleaved ADCs' or for 'multiple channel ADCs' that are specified to have an interleaved mode of operation, the outputs are aggregated and the output rate is the maximum combined total output rate of all of the outputs.

6. Vendors may also refer to the output rate as sampling rate, conversion rate or throughput rate. It is often specified in megahertz (MHz) or mega samples per second (MSPS).

7. For the purpose of measuring output rate, one output word per second is equivalent to one Hertz or one sample per second.

8. 'Multiple channel ADCs' are defined as devices which integrate more than one ADC, designed so that each ADC has a separate analog input.

9. 'Interleaved ADCs' are defined as devices which have multiple ADC units that sample the same analog input at different times such that when the outputs are aggregated, the analog input has been effectively sampled and converted at a higher sampling rate.

a.5.b. Digital-to-Analog Converters (DAC) having any of the following:

a.5.b.1. A resolution of 10 bit or more with an 'adjusted update rate' of greater than 3,500 MSPS; *or*

a.5.b.2. A resolution of 12-bit or more with an 'adjusted update rate' of greater than 1,250 MSPS and having any of the following:

a.5.b.2.a. A settling time less than 9 ns to 0.024% of full scale from a full scale step; or

a.5.b.2.b. A 'Spurious Free Dynamic Range' (SFDR) greater than 68 dBc (carrier) when synthesizing a full scale analog signal of 100 MHz or the highest full scale analog signal frequency specified below 100 MHz.

Technical Notes: 1. 'Spurious Free Dynamic Range' (SFDR) is defined as the ratio of the RMS value of the carrier frequency (maximum signal component) at the input of the DAC to the RMS value of the next largest noise or harmonic distortion component at its output.

2. SFDR is determined directly from the specification table or from the characterization plots of SFDR versus frequency.

3. A signal is defined to be full scale when its amplitude is greater than −3 dBfs (full scale).

4. 'Adjusted update rate' for DACs is:

a. For conventional (non-interpolating) DACs, the 'adjusted update rate' is the rate at which the digital signal is converted to an analog signal and the output analog values are changed by the DAC.For DACs where the interpolation mode may be bypassed (interpolation factor of one), the DAC should be considered as a conventional (non-interpolating) DAC.

b. For interpolating DACs (oversampling DACs), the 'adjusted update rate' is defined as the DAC update rate divided by the smallest interpolating factor. For interpolating DACs, the 'adjusted update rate' may be referred to by different terms including:

- *Input data rate*
- *Input word rate*
- *Input sample rate*
- *Maximum total input bus rate*
- *Maximum DAC clock rate for DAC clock input.*

a.6. Electro-optical and ''optical integrated circuits'', designed for ''signal processing'' and having all of the following:

a.6.a. One or more than one internal ''laser'' diode;

a.6.b. One or more than one internal light detecting element; *and*

a.6.c. Optical waveguides;

a.7. 'Field programmable logic devices' having any of the following:

a.7.a. A maximum number of single-ended digital input/outputs of greater than 700; or

a.7.b. An 'aggregate one-way peak serial transceiver data rate' of 500 Gb/s or greater;

Note: 3A001.a.7 includes:

—Simple Programmable Logic Devices (SPLDs)

—Complex Programmable Logic Devices (CPLDs)

—Field Programmable Gate Arrays (FPGAs)

—Field Programmable Logic Arrays (FPLAs)

—Field Programmable Interconnects (FPICs)

Technical Notes: 1. Maximum number of digital input/outputs in 3A001.a.7.a is also referred to as maximum user input/outputs or maximum available input/outputs, whether the integrated circuit is packaged or bare die.

2. 'Aggregate one-way peak serial transceiver data rate' is the product of the peak serial one-way transceiver data rate times the number of transceivers on the FPGA.

a.8. [Reserved]

a.9. Neural network integrated circuits;

a.10. Custom integrated circuits for which the function is unknown, or the control status of the equipment in which the integrated circuits will be used is unknown to the manufacturer, having any of the following:

a.10.a. More than 1,500 terminals;

a.10.b. A typical ''basic gate propagation delay time'' of less than 0.02 ns; or

a.10.c. An operating frequency exceeding 3 GHz;

a.11. Digital integrated circuits, other than those described in 3A001.a.3 to 3A001.a.10 and 3A001.a.12, based upon any compound semiconductor and having any of the following:

a.11.a. An equivalent gate count of more than 3,000 (2 input gates); *or*

a.11.b. A toggle frequency exceeding 1.2 GHz;

a.12. Fast Fourier Transform (FFT) processors having a rated execution time for an N-point complex FFT of less than $(N \log_2 N)/20{,}480$ ms, where N is the number of points;

Technical Note: When N is equal to 1,024 points, the formula in 3A001.a.12 gives an execution time of 500 μs.

a.13. Direct Digital Synthesizer (DDS) integrated circuits having any of the following:

a.13.a. A Digital-to-Analog Converter (DAC) clock frequency of 3.5 GHz or more and a DAC resolution of 10 bit or more, but less than 12 bit; or

a.13.b. A DAC clock frequency of 1.25 GHz or more and a DAC resolution of 12 bit or more;

Technical Note: The DAC clock frequency may be specified as the master clock frequency or the input clock frequency.

b. Microwave or millimeter wave items, as follows:

Technical Note: For purposes of 3A001.b, the parameter peak saturated power output may also be referred to on product data sheets as output power, saturated power output, maximum power output, peak power output, or peak envelope power output.

b.1. Electronic vacuum tubes and cathodes, as follows:

Note 1: 3A001.b.1 does not control tubes designed or rated for operation in any frequency band and having all of the following:

a. Does not exceed 31.8 GHz; and

b. Is ''allocated by the ITU'' for radio-communications services, but not for radio-determination.

Note 2: 3A001.b.1 does not control non-''space-qualified'' tubes having all the following:

(a) An average output power equal to or less than 50 W; and

(b) Designed or rated for operation in any frequency band and having all of the following:

(1) Exceeds 31.8 GHz but does not exceed 43.5 GHz; and

(2) Is ''allocated by the ITU'' for radio-communications services, but not for radio-determination.

b.1.a. Traveling wave tubes, pulsed or continuous wave, as follows:

b.1.a.1. Tubes operating at frequencies exceeding 31.8 GHz;

b.1.a.2. Tubes having a cathode heater element with a turn on time to rated RF power of less than 3 seconds;

b.1.a.3. Coupled cavity tubes, or derivatives thereof, with a ''fractional bandwidth'' of more than 7% or a peak power exceeding 2.5 kW;

b.1.a.4. Helix tubes, or derivatives thereof, having any of the following:

b.1.a.4.a. An ''instantaneous bandwidth'' of more than one octave, and average power (expressed in kW) times frequency (expressed in GHz) of more than 0.5;

b.1.a.4.b. An ''instantaneous bandwidth'' of one octave or less, and average power (expressed in kW) times frequency (expressed in GHz) of more than 1; *or*

b.1.a.4.c. Being ''space-qualified'';

b.1.b. Crossed-field amplifier tubes with a gain of more than 17 dB;

b.1.c. Impregnated cathodes designed for electronic tubes producing a continuous emission current density at rated operating conditions exceeding 5 A/cm^2;

b.2. Microwave ''Monolithic Integrated Circuits'' (MMIC) power amplifiers that are any of the following:

b.2.a. Rated for operation at frequencies exceeding 2.7 GHz up to and including 6.8 GHz with a ''fractional bandwidth'' greater than 15%, and having any of the following:

b.2.a.1. A peak saturated power output greater than 75 W (48.75 dBm) at any frequency exceeding 2.7 GHz up to and including 2.9 GHz;

b.2.a.2. A peak saturated power output greater than 55 W (47.4 dBm) at any frequency exceeding 2.9 GHz up to and including 3.2 GHz;

b.2.a.3. A peak saturated power output greater than 40 W (46 dBm) at any frequency exceeding 3.2 GHz up to and including 3.7 GHz; *or*

b.2.a.4. A peak saturated power output greater than 20 W (43 dBm) at any frequency exceeding 3.7 GHz up to and including 6.8 GHz;

b.2.b. Rated for operation at frequencies exceeding 6.8 GHz up to and including 16 GHz with a ''fractional bandwidth'' greater than 10%, and having any of the following:

b.2.b.1. A peak saturated power output greater than 10 W (40 dBm) at any frequency exceeding 6.8 GHz up to and including 8.5 GHz; *or*

b.2.b.2. A peak saturated power output greater than 5 W (37 dBm) at any frequency exceeding 8.5 GHz up to and including 16 GHz;

b.2.c. Rated for operation with a peak saturated power output greater than 3 W (34.77 dBm) at any frequency exceeding 16 GHz up to and including 31.8 GHz, and with a ''fractional bandwidth'' of greater than 10%;

b.2.d. Rated for operation with a peak saturated power output greater than 0.1n W (−70 dBm) at any frequency exceeding 31.8 GHz up to and including 37 GHz;

b.2.e. Rated for operation with a peak saturated power output greater than 1 W (30 dBm) at any frequency exceeding 37 GHz up to and including 43.5 GHz, and with a ''fractional bandwidth'' of greater than 10%;

b.2.f. Rated for operation with a peak saturated power output greater than 31.62 mW (15 dBm) at any frequency exceeding 43.5 GHz up to and including 75 GHz, and with a ''fractional bandwidth'' of greater than 10%;

b.2.g. Rated for operation with a peak saturated power output greater than 10 mW (10 dBm) at any frequency exceeding 75 GHz up to and including 90 GHz, and with a ''fractional bandwidth'' of greater than 5%; *or*

b.2.h. Rated for operation with a peak saturated power output greater than 0.1 nW (−70 dBm) at any frequency exceeding 90 GHz;

Note 1: [Reserved]

Note 2: The control status of the MMIC whose rated operating frequency includes frequencies listed in more than one frequency range, as defined by 3A001.b.2.a through 3A001.b.2.h, is determined by the lowest peak saturated power output control threshold.

Note 3: Notes 1 and 2 following the Category 3 heading for product group A. Systems, Equipment, and Components mean that 3A001.b.2 does not control MMICs if they are ''specially designed'' for other applications, e.g., telecommunications, radar, automobiles.

b.3. Discrete microwave transistors that are any of the following:

b.3.a. Rated for operation at frequencies exceeding 2.7 GHz up to and including 6.8 GHz and having any of the following:

b.3.a.1. A peak saturated power output greater than 400 W (56 dBm) at any frequency exceeding 2.7 GHz up to and including 2.9 GHz;

b.3.a.2. A peak saturated power output greater than 205 W (53.12 dBm) at any frequency exceeding 2.9 GHz up to and including 3.2 GHz;

b.3.a.3. A peak saturated power output greater than 115 W (50.61 dBm) at any frequency exceeding 3.2 GHz up to and including 3.7 GHz; *or*

b.3.a.4. A peak saturated power output greater than 60 W (47.78 dBm) at any frequency exceeding 3.7 GHz up to and including 6.8 GHz;

b.3.b. Rated for operation at frequencies exceeding 6.8 GHz up to and including 31.8 GHz and having any of the following:

b.3.b.1. A peak saturated power output greater than 50 W (47 dBm) at any frequency exceeding 6.8 GHz up to and including 8.5 GHz;

b.3.b.2. A peak saturated power output greater than 15 W (41.76 dBm) at any frequency exceeding 8.5 GHz up to and including 12 GHz;

b.3.b.3. A peak saturated power output greater than 40 W (46 dBm) at any frequency exceeding 12 GHz up to and including 16 GHz; *or*

b.3.b.4. A peak saturated power output greater than 7 W (38.45 dBm) at any frequency exceeding 16 GHz up to and including 31.8 GHz;

b.3.c. Rated for operation with a peak saturated power output greater than 0.5 W (27 dBm) at any frequency exceeding 31.8 GHz up to and including 37 GHz;

b.3.d. Rated for operation with a peak saturated power output greater than 1 W (30 dBm) at any frequency exceeding 37 GHz up to and including 43.5 GHz; *or*

b.3.e. Rated for operation with a peak saturated power output greater than 0.1 nW (−70 dBm) at any frequency exceeding 43.5 GHz;

Note 1: The control status of a transistor, whose rated operating frequency includes frequencies listed in more than one frequency range, as defined by 3A001.b.3.a through 3A001.b.3.e, is determined by the lowest peak saturated power output control threshold.

Note 2: 3A001.b.3 includes bare dice, dice mounted on carriers, or dice mounted in packages. Some discrete transistors may also be referred to as power amplifiers, but the status of these discrete transistors is determined by 3A001.b.3.

b.4. Microwave solid state amplifiers and microwave assemblies/modules containing microwave solid state amplifiers, that are any of the following:

b.4.a. Rated for operation at frequencies exceeding 2.7 GHz up to and including 6.8

GHz with a ''fractional bandwidth'' greater than 15%, and having any of the following:

b.4.a.1. A peak saturated power output greater than 500 W (57 dBm) at any frequency exceeding 2.7 GHz up to and including 2.9 GHz;

b.4.a.2. A peak saturated power output greater than 270 W (54.3 dBm) at any frequency exceeding 2.9 GHz up to and including 3.2 GHz;

b.4.a.3. A peak saturated power output greater than 200 W (53 dBm) at any frequency exceeding 3.2 GHz up to and including 3.7 GHz; *or*

b.4.a.4. A peak saturated power output greater than 90 W (49.54 dBm) at any frequency exceeding 3.7 GHz up to and including 6.8 GHz;

b.4.b. Rated for operation at frequencies exceeding 6.8 GHz up to and including 31.8 GHz with a ''fractional bandwidth'' greater than 10%, and having any of the following:

b.4.b.1. A peak saturated power output greater than 70 W (48.54 dBm) at any frequency exceeding 6.8 GHz up to and including 8.5 GHz;

b.4.b.2. A peak saturated power output greater than 50 W (47 dBm) at any frequency exceeding 8.5 GHz up to and including 12 GHz;

b.4.b.3. A peak saturated power output greater than 30 W (44.77 dBm) at any frequency exceeding 12 GHz up to and including 16 GHz; *or*

b.4.b.4. A peak saturated power output greater than 20 W (43 dBm) at any frequency exceeding 16 GHz up to and including 31.8 GHz;

b.4.c. Rated for operation with a peak saturated power output greater than 0.5 W (27 dBm) at any frequency exceeding 31.8 GHz up to and including 37 GHz;

b.4.d. Rated for operation with a peak saturated power output greater than 2 W (33 dBm) at any frequency exceeding 37 GHz up to and including 43.5 GHz, and with a ''fractional bandwidth'' of greater than 10%;

b.4.e. Rated for operation at frequencies exceeding 43.5 GHz and having any of the following:

b.4.e.1. A peak saturated power output greater than 0.2 W (23 dBm) at any frequency exceeding 43.5 GHz up to and including 75 GHz, and with a ''fractional bandwidth'' of greater than 10%;

b.4.e.2. A peak saturated power output greater than 20 mW (13 dBm) at any frequency exceeding 75 GHz up to and including 90 GHz, and with a ''fractional bandwidth'' of greater than 5%; *or*

b.4.e.3. A peak saturated power output greater than 0.1 nW (−70 dBm) at any frequency exceeding 90 GHz; *or*

b.4.f. Rated for operation at frequencies above 2.7 GHz and all of the following:

b.4.f.1. A peak saturated power output (in watts), P_{sat}, greater than 400 divided by the maximum operating frequency (in GHz) squared [$P_{sat} > 400\ W*GHz^2/f_{GHz}^2$];

b.4.f.2. A ''fractional bandwidth'' of 5% or greater; *and*

b.4.f.3. Any two sides perpendicular to one another with either length d (in cm) equal to or less than 15 divided by the lowest operating frequency in GHz [$d \leq 15\ cm*GHz/f_{GHz}$];

Technical Note: 2.7 GHz should be used as the lowest operating frequency (f_{GHz}) in the formula in 3A001.b.4.f.3., for amplifiers that have a rated operation range extending downward to 2.7 GHz and below [$d \leq 15\ cm*GHz/2.7\ GHz$].

N.B.: MMIC power amplifiers should be evaluated against the criteria in 3A001.b.2.

Note 1: [Reserved]

Note 2: The control status of an item whose rated operating frequency includes frequencies listed in more than one frequency range, as defined by 3A001.b.4.a through 3A001.b.4.e, is determined by the lowest peak saturated power output control threshold.

Note 3: 3A001.b.4 includes transmit/receive modules and transmit modules.

b.5. Electronically or magnetically tunable band-pass or band-stop filters, having more than 5 tunable resonators capable of tuning across a 1.5:1 frequency band (f_{max}/f_{min}) in less than 10 μs and having any of the following:

b.5.a. A band-pass bandwidth of more than 0.5% of center frequency; *or*

b.5.b. A band-stop bandwidth of less than 0.5% of center frequency;

b.6. [Reserved]

b.7. Converters and harmonic mixers, that are any of the following:

b.7.a. Designed to extend the frequency range of ''signal analyzers'' beyond 90 GHz;

b.7.b. Designed to extend the operating range of signal generators as follows:

b.7.b.1. Beyond 90 GHz;

b.7.b.2. To an output power greater than 100 mW (20 dBm) anywhere within the frequency range exceeding 43.5 GHz but not exceeding 90 GHz;

b.7.c. Designed to extend the operating range of network analyzers as follows:

b.7.c.1. Beyond 110 GHz;

b.7.c.2. To an output power greater than 31.62 mW (15 dBm) anywhere within the frequency range exceeding 43.5 GHz but not exceeding 90 GHz;

b.7.c.3. To an output power greater than 1 mW (0 dBm) anywhere within the frequency range exceeding 90 GHz but not exceeding 110 GHz; *or*

b.7.d. Designed to extend the frequency range of microwave test receivers beyond 110 GHz;

b.8. Microwave power amplifiers containing tubes controlled by 3A001.b.1 and having all of the following:

b.8.a. Operating frequencies above 3 GHz;

b.8.b. An average output power to mass ratio exceeding 80 W/kg; and

b.8.c. A volume of less than 400 cm^3;

Note: 3A001.b.8 does not control equipment designed or rated for operation in any frequency band which is ''allocated by the ITU'' for radiocommunications services, but not for radio-determination.

b.9. Microwave power modules (MPM) consisting of, at least, a traveling wave tube, a microwave ''monolithic integrated circuit'' and an integrated electronic power conditioner and having all of the following:

b.9.a. A 'turn-on time' from off to fully operational in less than 10 seconds;

b.9.b. A volume less than the maximum rated power in Watts multiplied by 10 cm^3/W; *and*

b.9.c. An ''instantaneous bandwidth'' greater than 1 octave (f_{max}. $>2f_{min}$,) and having any of the following:

b.9.c.1. For frequencies equal to or less than 18 GHz, an RF output power greater than 100 W; *or*

b.9.c.2. A frequency greater than 18 GHz;

Technical Notes: 1. To calculate the volume in 3A001.b.9.b., the following example is provided: for a maximum rated power of 20 W, the volume would be: 20 W × 10 cm^3/W = 200 cm^3.

2. The 'turn-on time' in 3A001.b.9.a. refers to the time from fully-off to fully operational, i.e., it includes the warm-up time of the MPM.

b.10. Oscillators or oscillator assemblies, specified to operate with a single sideband (SSB) phase noise, in dBc/Hz, less (better) than—$(126 + 20\log_{10}F - 20\log_{10}f)$ anywhere within the range of 10 Hz ≤ F ≤ 10 kHz;

Technical Note: In 3A001.b.10, F is the offset from the operating frequency in Hz and f is the operating frequency in MHz.

b.11. ''Frequency synthesizer'' ''electronic assemblies'' having a ''frequency switching time'' as specified by any of the following:

b.11.a. Less than 156 ps;

b.11.b. Less than 100 μs for any frequency change exceeding 1.6 GHz within the synthesized frequency range exceeding 4.8 GHz but not exceeding 10.6 GHz;

b.11.c. Less than 250 μs for any frequency change exceeding 550 MHz within the synthesized frequency range exceeding 10.6 GHz but not exceeding 31.8 GHz;

b.11.d. Less than 500 μs for any frequency change exceeding 550 MHz within the synthesized frequency range exceeding 31.8 GHz but not exceeding 43.5 GHz; *or*

b.11.e. Less than 1 ms for any frequency change exceeding 550 MHz within the synthesized frequency range exceeding 43.5 GHz but not exceeding 56 GHz;

b.11.f. Less than 1 ms for any frequency change exceeding 2.2 GHz within the synthesized frequency range exceeding 56 GHz but not exceeding 90 GHz; *or*

b.11.g. Less than 1 ms within the synthesized frequency range exceeding 90 GHz;

N.B.: For general purpose ''signal analyzers'', signal generators, network analyzers and microwave test receivers, see 3A002.c, 3A002.d, 3A002.e and 3A002.f, respectively.

c. Acoustic wave devices as follows and ''specially designed'' ''components'' therefor:

c.1. Surface acoustic wave and surface skimming (shallow bulk) acoustic wave devices, having any of the following:

c.1.a. A carrier frequency exceeding 6 GHz;

c.1.b. A carrier frequency exceeding 1 GHz, but not exceeding 6 GHz and having any of the following:

c.1.b.1. A 'frequency side-lobe rejection' exceeding 65 dB;

c.1.b.2. A product of the maximum delay time and the bandwidth (time in μs and bandwidth in MHz) of more than 100;

c.1.b.3. A bandwidth greater than 250 MHz; *or*

c.1.b.4. A dispersive delay of more than 10 μs; *or*

c.1.c. A carrier frequency of 1 GHz or less and having any of the following:

c.1.c.1. A product of the maximum delay time and the bandwidth (time in μs and bandwidth in MHz) of more than 100;

c.1.c.2. A dispersive delay of more than 10 μs; *or*

c.1.c.3. A 'frequency side-lobe rejection' exceeding 65 dB and a bandwidth greater than 100 MHz;

Technical Note: 'Frequency side-lobe rejection' is the maximum rejection value specified in data sheet.

c.2. Bulk (volume) acoustic wave devices that permit the direct processing of signals at frequencies exceeding 6 GHz;

c.3. Acoustic-optic ''signal processing'' devices employing interaction between acoustic waves (bulk wave or surface wave) and light waves that permit the direct processing of signals or images, including spectral analysis, correlation or convolution;

Note: 3A001.c does not control acoustic wave devices that are limited to a single band pass, low pass, high pass or notch filtering, or resonating function.

d. Electronic devices and circuits containing ''components,'' manufactured from ''superconductive'' materials, ''specially designed'' for operation at temperatures below the ''critical temperature'' of at least one of the ''superconductive'' constituents and having any of the following:

d.1. Current switching for digital circuits using ''superconductive'' gates with a product of delay time per gate (in seconds) and power dissipation per gate (in watts) of less than 10^{-14} J; *or*

d.2. Frequency selection at all frequencies using resonant circuits with Q-values exceeding 10,000;

e. High energy devices as follows:

e.1. 'Cells' as follows:

e.1.a. 'Primary cells' having an 'energy density' exceeding 550 Wh/kg at 293 K (20 °C);

e.1.b. 'Secondary cells' having an 'energy density' exceeding 350 Wh/kg at 293 K (20 °C);

Technical Notes: 1. For the purpose of 3A001.e.1., 'energy density' (Wh/kg) is calculated from the nominal voltage multiplied by the nominal capacity in ampere-hours (Ah) divided by the mass in kilograms. If the nominal capacity is not stated, energy density is calculated from the nominal voltage squared then multiplied by the discharge duration in hours divided by the discharge load in Ohms and the mass in kilograms.

2. For the purpose of 3A001.e.1., a 'cell' is defined as an electrochemical device, which has positive and negative electrodes, an electrolyte, and is a source of electrical energy. It is the basic building block of a battery.

3. For the purpose of 3A001.e.1.a., a 'primary cell' is a 'cell' that is not designed to be charged by any other source.

4. For the purpose of 3A001.e.1.b., a 'secondary cell' is a 'cell' that is designed to be charged by an external electrical source.

Note: 3A001.e. does not control batteries, including single-cell batteries.

e.2. High energy storage capacitors as follows:

e.2.a. Capacitors with a repetition rate of less than 10 Hz (single shot capacitors) and having all of the following:

e.2.a.1. A voltage rating equal to or more than 5 kV;

e.2.a.2. An energy density equal to or more than 250 J/kg; *and*

e.2.a.3. A total energy equal to or more than 25 kJ;

e.2.b. Capacitors with a repetition rate of 10 Hz or more (repetition rated capacitors) and having all of the following:

e.2.b.1. A voltage rating equal to or more than 5 kV;

e.2.b.2. An energy density equal to or more than 50 J/kg;

e.2.b.3. A total energy equal to or more than 100 J; *and*

e.2.b.4. A charge/discharge cycle life equal to or more than 10,000;

e.3. ''Superconductive'' electromagnets and solenoids, ''specially designed'' to be fully charged or discharged in less than one second and having all of the following:

Note: 3A001.e.3 does not control ''superconductive'' electromagnets or solenoids ''specially designed'' for Magnetic Resonance Imaging (MRI) medical equipment.

e.3.a. Energy delivered during the discharge exceeding 10 kJ in the first second;

e.3.b. Inner diameter of the current carrying windings of more than 250 mm; *and*

e.3.c. Rated for a magnetic induction of more than 8 T or ''overall current density'' in the winding of more than 300 A/mm^2;

e.4. Solar cells, cell-interconnect-coverglass (CIC) assemblies, solar panels, and solar arrays, which are ''space-qualified,'' having a minimum average efficiency exceeding 20% at an operating temperature of 301 K (28 °C) under simulated 'AM0' illumination with an irradiance of 1,367 Watts per square meter (W/m^2);

Technical Note: 'AM0,' or 'Air Mass Zero,' refers to the spectral irradiance of sunlight in the earth's outer atmosphere when the distance between the earth and sun is one astronomical unit (AU).

f. Rotary input type absolute position encoders having an ''accuracy'' equal to or less (better) than ±1.0 second of arc;

g. Solid-state pulsed power switching thyristor devices and 'thyristor modules', using either electrically, optically, or electron radiation controlled switch methods and having any of the following:

g.1. A maximum turn-on current rate of rise (di/dt) greater than 30,000 A/μs and off-state voltage greater than 1,100 V; *or*

g.2. A maximum turn-on current rate of rise (di/dt) greater than 2,000 A/μs and having all of the following:

g.2.a. An off-state peak voltage equal to or greater than 3,000 V; *and*

g.2.b. A peak (surge) current equal to or greater than 3,000 A;

Note 1: 3A001.g. includes:

—Silicon Controlled Rectifiers (SCRs)

—Electrical Triggering Thyristors (ETTs)

—Light Triggering Thyristors (LTTs)

—Integrated Gate Commutated Thyristors (IGCTs)

—Gate Turn-off Thyristors (GTOs)

—MOS Controlled Thyristors (MCTs)

—Solidtrons

Note 2: 3A001.g. does not control thyristor devices and 'thyristor modules' incorporated into equipment designed for civil railway or ''civil aircraft'' applications.

Technical Note: For the purposes of 3A001.g, a ''thyristor module'' contains one or more thyristor devices.

h. Solid-state power semiconductor switches, diodes, or 'modules', having all of the following:

h.1. Rated for a maximum operating junction temperature greater than 488 K (215 °C);

h.2. Repetitive peak off-state voltage (blocking voltage) exceeding 300 V; *and*

h.3. Continuous current greater than 1 A.

Technical Note: For the purposes of 3A001.h, 'modules' contain one or more solid-state power semiconductor switches or diodes.

Note 1: Repetitive peak off-state voltage in 3A001.h includes drain to source voltage, collector to emitter voltage, repetitive peak reverse voltage and peak repetitive off-state blocking voltage.

Note 2: 3A001.h. includes:

—Junction Field Effect Transistors (JFETs)

—Vertical Junction Field Effect Transistors (VJFETs)

—Metal Oxide Semiconductor Field Effect Transistors (MOSFETs)

—Double Diffused Metal Oxide Semiconductor Field Effect Transistor (DMOSFET)

—Insulated Gate Bipolar Transistor (IGBT)

—High Electron Mobility Transistors (HEMTs)

—Bipolar Junction Transistors (BJTs)

—Thyristors and Silicon Controlled Rectifiers (SCRs)

—Gate Turn-Off Thyristors (GTOs)

—Emitter Turn-Off Thyristors (ETOs)

—PiN Diodes

—Schottky Diodes

Note 3: 3A001.h. does not apply to switches, diodes, or 'modules', incorporated into equipment designed for civil automobile, civil railway, or ''civil aircraft'' applications.

3A002 General purpose "electronic assemblies," modules and equipment, as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, MT, AT

Control(s)	Country chart *(see supp. no. 1 to part 738)*
NS applies to entire entry	NS Column 2
MT applies to 3A002.h when the parameters in 3A101.a.2.b are met or exceeded.	MT Column 1
AT applies to entire entry	AT Column 1

REPORTING REQUIREMENTS: See §743.1 of the EAR for reporting requirements for exports under License Exceptions, and Validated End-User authorizations.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: $3000: 3A002.a, .e, .f, and .g

$5000: 3A002.c to .d, and .h (unless controlled for MT);

GBS: Yes, for 3A002.h (unless controlled for MT)

CIV: Yes, for 3A002.h (unless controlled for MT)

SPECIAL CONDITIONS FOR STA

STA: License Exception STA may not be used to ship any item in 3A002.g.1 to any of the destinations listed in Country Group A:6 (See Supplement No. 1 to part 740 of the EAR).

LIST OF ITEMS CONTROLLED

Related Controls: See Category XV(e)(9) of the USML for certain ''space-qualified'' atomic frequency standards ''subject to the ITAR'' (see 22 CFR parts 120 through 130). See also 3A101, 3A992 and 9A515.x.

Related Definitions: Constant percentage bandwidth filters are also known as octave or fractional octave filters.

Items: a. Recording equipment and oscilloscopes, as follows:

a.1–a.5 [Reserved]

N.B.: For waveform digitizers and transient recorders, see 3A002.h.

Technical Notes: 1. For those instruments with a parallel bus architecture, the 'continuous throughput' rate is the highest word rate multiplied by the number of bits in a word.

2. 'Continuous throughput' is the fastest data rate the instrument can output to mass storage without the loss of any information while sustaining the sampling rate and analog-to-digital conversion.

3. For the purposes of 3A002.a.5.c, acquisition can be triggered internally or externally.

a.6. Digital data recorders having all of the following:

a.6.a. A sustained 'continuous throughput' of more than 6.4 Gbit/s to disk or solid-state drive memory; *and*

a.6.b. A processor that performs analysis of radio frequency signal data while it is being recorded;

Technical Notes: 1. For recorders with a parallel bus architecture, the 'continuous throughput' rate is the highest word rate multiplied by the number of bits in a word.

2. 'Continuous throughput' is the fastest data rate the instrument can record to disk or solid-state drive memory without the loss of any information while sustaining the input digital data rate or digitizer conversion rate.

a.7. Real-time oscilloscopes having a vertical root-mean-square (rms) noise voltage of less than 2% of full-scale at the vertical scale setting that provides the lowest noise value for any input 3dB bandwidth of 60 GHz or greater per channel;

Note: 3A002.a.7 does not apply to equivalent-time sampling oscilloscopes.

b. [Reserved]

c. ''Signal analyzers'' as follows:

c.1. ''Signal analyzers'' having a 3 dB resolution bandwidth (RBW) exceeding 10 MHz anywhere within the frequency range exceeding 31.8 GHz but not exceeding 37 GHz;

c.2. ''Signal analyzers'' having Displayed Average Noise Level (DANL) less (better) than—150 dBm/Hz anywhere within the frequency range exceeding 43.5 GHz but not exceeding 90 GHz;

c.3. ''Signal analyzers'' having a frequency exceeding 90 GHz;

c.4. ''Signal analyzers'' having all of the following:

c.4.a. ''Real-time bandwidth'' exceeding 170 MHz; *and*

c.4.b. 100% probability of discovery with less than a 3 dB reduction from full amplitude due to gaps or windowing effects of signals having a duration of 15 μs or less;

Note: 3A002.c.4 does not apply to those ''signal analyzers'' using only constant percentage bandwidth filters (also known as octave or fractional octave filters).

Technical Notes: 1. Probability of discovery in 3A002.c.4.b is also referred to as probability of intercept or probability of capture.

2. For the purposes of 3A002.c.4.b, the duration for 100% probability of discovery is equivalent to the minimum signal duration necessary for the specified level measurement uncertainty.

c.5. ''Signal analyzers'' having a ''frequency mask trigger'' function with 100%

probability of trigger (capture) for signals having a duration of 15 μs or less;

d. Signal generators having any of the following:

d.1. Specified to generate pulse-modulated signals having all of the following, anywhere within the frequency range exceeding 31.8 GHz but not exceeding 37 GHz:

d.1.a. 'Pulse duration' of less than 25 ns; *and*

d.1.b. On/off ratio equal to or exceeding 65 dB;

d.2. An output power exceeding 100 mW (20 dBm) anywhere within the frequency range exceeding 43.5 GHz but not exceeding 90 GHz;

d.3. A ''frequency switching time'' as specified by any of the following:

d.3.a. [Reserved];

d.3.b. Less than 100 μs for any frequency change exceeding 2.2 GHz within the frequency range exceeding 4.8 GHz but not exceeding 31.8 GHz;

d.3.c. [Reserved]

d.3.d. Less than 500 μs for any frequency change exceeding 550 MHz within the frequency range exceeding 31.8 GHz but not exceeding 37 GHz; *or*

d.3.e. Less than 100 μs for any frequency change exceeding 2.2 GHz within the frequency range exceeding 37 GHz but not exceeding 90 GHz;

d.3.f. [Reserved]

d.4. Single sideband (SSB) phase noise, in dBc/Hz, specified as being any of the following:

d.4.a. Less (better) than—$(126 + 20 \log_{10} F - 20\log_{10}f)$ for anywhere within the range of 10 Hz $\leq F \leq$ 10 kHz anywhere within the frequency range exceeding 3.2 GHz but not exceeding 90 GHz; *or*

d.4.b. Less (better) than—$(206 - 20\log_{10}f)$ for anywhere within the range of 10 kHz $< F \leq$ 100 kHz anywhere within the frequency range exceeding 3.2 GHz but not exceeding 90 GHz; *or*

TECHNICAL NOTE: *In 3A002.d.4, F is the offset from the operating frequency in Hz and f is the operating frequency in MHz.*

d.5. A maximum frequency exceeding 90 GHz;

Note 1: For the purpose of 3A002.d, signal generators include arbitrary waveform and function generators.

Note 2: 3A002.d does not control equipment in which the output frequency is either produced by the addition or subtraction of two or more crystal oscillator frequencies, or by an addition or subtraction followed by a multiplication of the result.

Technical Notes: 1. The maximum frequency of an arbitrary waveform or function generator is calculated by dividing the sample rate, in samples/second, by a factor of 2.5.

2. For the purposes of 3A002.d.1.a, 'pulse duration' is defined as the time interval from the point on the leading edge that is 50% of the pulse amplitude to the point on the trailing edge that is 50% of the pulse amplitude.

e. Network analyzers having any of the following:

e.1. An output power exceeding 31.62 mW (15 dBm) anywhere within the operating frequency range exceeding 43.5 GHz but not exceeding 90 GHz;

e.2. An output power exceeding 1 mW (0 dBm) anywhere within the operating frequency range exceeding 90 GHz but not exceeding 110 GHz;

e.3. 'Nonlinear vector measurement functionality' at frequencies exceeding 50 GHz but not exceeding 110 GHz; *or*

Technical Note: 'Nonlinear vector measurement functionality' is an instrument's ability to analyze the test results of devices driven into the large-signal domain or the non-linear distortion range.

e.4. A maximum operating frequency exceeding 110 GHz;

f. Microwave test receivers having all of the following:

f.1. Maximum operating frequency exceeding 110 GHz; *and*

f.2. Being capable of measuring amplitude and phase simultaneously;

g. Atomic frequency standards being any of the following:

g.1. ''Space-qualified'';

g.2. Non-rubidium and having a long-term stability less (better) than $1 \times 10^{-11/\text{month}\geq}$ *or*

g.3. Non-''space-qualified'' and having all of the following:

g.3.a. Being a rubidium standard;

g.3.b. Long-term stability less (better) than $1 \times 10^{-11/\text{month}\geq}$ *and*

g.3.c. Total power consumption of less than 1 Watt.

h. ''Electronic assemblies,'' modules or equipment, specified to perform all of the following:

h.1. Analog-to-digital conversions meeting any of the following:

h.1.a. A resolution of 8 bit or more, but less than 10 bit, with an input sample rate greater than 1.3 billion samples per second;

h.1.b. A resolution of 10 bit or more, but less than 12 bit, with an input sample rate greater than 1.0 billion samples per second;

h.1.c. A resolution of 12 bit or more, but less than 14 bit, with an input sample rate greater than 1.0 billion samples per second;

h.1.d. A resolution of 14 bit or more but less than 16 bit, with an input sample rate greater than 400 million samples per second; *or*

h.1.e. A resolution of 16 bit or more with an input sample rate greater than 180 million samples per second; *and*

h.2. Any of the following:

h.2.a. Output of digitized data;

h.2.b. Storage of digitized data; *or*

h.2.c. Processing of digitized data;

N.B.: Digital data recorders, oscilloscopes, ''signal analyzers,'' signal generators, network

analyzers and microwave test receivers, are specified by 3A002.a.6, 3A002.a.7, 3A002.c, 3A002.d, 3A002.e and 3A002.f, respectively.

Technical Note: For multiple-channel ''electronic assemblies'' or modules, control status is determined by the highest single-channel specified performance.

Note: 3A002.h includes ADC cards, waveform digitizers, data acquisition cards, signal acquisition boards and transient recorders.

3A003 Spray cooling thermal management systems employing closed loop fluid handling and reconditioning equipment in a sealed enclosure where a dielectric fluid is sprayed onto electronic "components" using "specially designed" spray nozzles that are designed to maintain electronic "components" within their operating temperature range, and "specially designed" "components" therefore.

LICENSE REQUIREMENTS

Reason for Control: NS, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 2.
AT applies to entire entry	AT Column 1.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading.

3A101 Electronic equipment, devices, "parts" and "components," other than those controlled by 3A001, as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: MT, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
MT applies to entire entry	MT Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: See also ECCN 3A002.h for controls on analog-to-digital ''electronic assemblies,'' modules or equipment.

Related Definitions: N/A

Items: a. Analog-to-digital converters usable in ''missiles,'' and having any of the following characteristics:

a.1. ''Specially designed'' to meet military specifications for ruggedized equipment;

a.2. ''Specially designed'' for military use and being any of the following types:

a.2.a. Analog-to-digital converter microcircuits which are radiation-hardened or have all of the following characteristics:

a.2.a.1. Rated for operation in the temperature range from below −54 °C to above +125 °C; *and*

a.2.a.2. Hermetically sealed; *or*

a.2.b. Electrical input type analog-to-digital converter printed circuit boards or modules, having all of the following characteristics:

a.2.b.1. Rated for operation in the temperature range from below −45 °C to above +80 °C; *and*

a.2.b.2. Incorporating microcircuits identified in 3A101.a.2 .a;

b. Accelerators capable of delivering electromagnetic radiation produced by bremsstrahlung from accelerated electrons of 2 MeV or greater, and systems containing those accelerators, usable for the ''missiles'' or the subsystems of ''missiles''.

Note: 3A101.b above does not include equipment ''specially designed'' for medical purposes.

3A201 Electronic "parts" and "components," other than those controlled by 3A001, as follows (see List of Items Controlled).

Reason for Control: NP, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NP applies to entire entry	NP Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: (1) See ECCNs 3E001 (''development'' and ''production'') and 3E201 (''use'') for technology for items controlled under this entry. (2) *Also see* 3A001.e.2 (capacitors) and 3A001.e.3 (superconducting electromagnets). (3) Superconducting electromagnets ''specially designed'' or prepared for use in separating uranium isotopes are subject to the export licensing authority of the Nuclear Regulatory Commission (see 10 CFR part 110).

Related Definitions: N/A

Items: a. Pulse discharge capacitors having either of the following sets of characteristics:

a.1. Voltage rating greater than 1.4 kV, energy storage greater than 10 J, capacitance greater than 0.5 μF, *and* series inductance less than 50 nH; *or*

a.2. Voltage rating greater than 750 V, capacitance greater than 0.25 μF, *and* series inductance less than 10 nH;

b. Superconducting solenoidal electromagnets having all of the following characteristics:

b.1. Capable of creating magnetic fields greater than 2 T;

b.2. A ratio of length to inner diameter greater than 2;

b.3. Inner diameter greater than 300 mm; *and*

b.4. Magnetic field uniform to better than 1% over the central 50% of the inner volume;

Note: 3A201.b does not control magnets ''specially designed'' for and exported ''as parts of'' medical nuclear magnetic resonance (NMR) imaging systems. The phrase ''as part of'' does not necessarily mean physical part in the same shipment; separate shipments from different sources are allowed, provided the related export documents clearly specify that the shipments are dispatched ''as part of'' the imaging systems.

c. Flash X-ray generators or pulsed electron accelerators having either of the following sets of characteristics:

c.1. An accelerator peak electron energy of 500 keV or greater, but less than 25 MeV, *and* with a ''figure of merit'' (K) of 0.25 or greater; *or*

c.2. An accelerator peak electron energy of 25 MeV or greater, *and* a ''peak power'' greater than 50 MW;

Note: 3A201.c does not control accelerators that are ''parts'' or ''components'' of devices designed for purposes other than electron beam or X-ray radiation (electron microscopy, for example) nor those designed for medical purposes.

Technical Notes: (1) The ''figure of merit'' K is defined as: $K = 1.7 \times 10^3 V^{2.65} Q$. *V is the peak electron energy in million electron volts. If the accelerator beam pulse duration is less than or equal to 1 μs, then Q is the total accelerated charge in Coulombs. If the accelerator beam pulse duration is greater than 1 μs, then Q is the maximum accelerated charge in 1 μs. Q equals the intergral of i with respect to t, over the lesser of 1 μs or the time duration of the beam pulse* $Q = \int i dt$*), where i is beam current in amperes and t is time in seconds.*

(2) ''Peak power'' = (peak potential in volts) × (peak beam current in amperes).

(3) In machines based on microwave accelerating cavities, the time duration of the beam pulse is the lesser of 1 μs or the duration of the bunched beam packet resulting from one microwave modulator pulse.

(4) In machines based on microwave accelerating cavities, the peak beam current is the average current in the time duration of a bunched beam packet.

3A225 Frequency changers (a.k.a. converters or inverters) and generators, except those subject to the export licensing authority of the Nuclear Regulatory Commission (see 10 CFR part 110), that are usable as a variable frequency or fixed frequency motor drive and have all of the characteristics described in this ECCN (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NP, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NP applies to entire entry	NP Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: (1) See ECCN 3D201 for ''software'' ''specially designed'' for the ''use'' of equipment described in this entry. (2) See ECCN 3D202 for ''software'' ''specially designed'' to enhance or release the performance characteristics of frequency changers or generators to meet or exceed the level of the performance characteristics described in this entry. (3) See ECCNs 3E001 (''development'' and ''production'') and 3E201 (''use'') for ''technology'' for items controlled under this entry. (4) Frequency changers (a.k.a. converters or inverters) ''specially designed'' or prepared for use in separating uranium isotopes are subject to the export licensing authority of the Nuclear Regulatory Commission (see 10 CFR part 110).

Related Definitions: N/A

Items: a. Multiphase output providing a power of 40 VA or greater;

b. Operating at a frequency of 600 Hz or more; *and*

c. Frequency control better (less) than 0.2%.

Notes: 1. This ECCN controls frequency changers intended for use in specific industrial machinery and/or consumer goods (machine tools, vehicles, etc.) only if the frequency changers can meet the performance characteristics described in this entry when removed from the machinery and/or goods. This Note does not exclude from control under this entry any frequency changer described herein that is the principal element of a non-controlled item and can feasibly be removed or used for other purposes.

2. To determine whether a particular frequency changer meets or exceeds the performance characteristics described in this entry, both hardware and ''software'' performance constraints must be considered.

Technical Notes: 1. Frequency changers controlled by this ECCN are also known as converters or inverters.

2. The performance characteristics described in this ECCN also may be met by certain equipment marketed as: Generators, electronic test

equipment, AC power supplies, variable speed motor drives, variable speed drives (VSDs), variable frequency drives (VFDs), adjustable frequency drives (AFDs), or adjustable speed drives (ASDs).

3A226 High-power direct current power supplies having both of the following characteristics (see List of Items Controlled), excluding items that are subject to the export licensing authority of the Nuclear Regulatory Commission (see 10 CFR part 110).

LICENSE REQUIREMENTS

Reason for Control: NP, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NP applies to entire entry	NP Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: (1) See ECCNs 3E001 (''development'' and ''production'') and 3E201 (''use'') for technology for items controlled under this entry. (2) Also see ECCN 3A227. (3) Direct current power supplies ''specially designed'' or prepared for use in separating uranium isotopes are subject to the export licensing authority of the Nuclear Regulatory Commission (see 10 CFR part 110).

Related Definitions: N/A

Items: a. Capable of continuously producing, over a time period of 8 hours, 100 V or greater with current output of 500 A or greater; *and*

b. Current or voltage stability better than 0.1% over a time period of 8 hours.

3A227 High-voltage direct current power supplies, having both of the following characteristics (see List of Items Controlled), excluding items that are subject to the export licensing authority of the Nuclear Regulatory Commission (see 10 CFR part 110).

LICENSE REQUIREMENTS

Reason for Control: NP, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NP applies to entire entry	NP Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: (1) See ECCNs 3E001 (''development'' and ''production'') and 3E201 (''use'') for technology for items controlled under this entry. (2) Also see ECCN 3A226. (3) Direct current power supplies ''specially designed'' or prepared for use in separating uranium isotopes are subject to the export licensing authority of the Nuclear Regulatory Commission (see 10 CFR part 110).

Related Definitions: N/A

Items: a. Capable of continuously producing, over a time period of 8 hours, 20 kV or greater with current output of 1 A or greater; *and*

b. Current or voltage stability better than 0.1% over a time period of 8 hours.

3A228 Switching devices, as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NP, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NP applies to entire entry	NP Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: (1) See ECCNs 3E001 (''development'' and ''production'') and 3E201 (''use'') for technology for items controlled under this entry.

(2) Also see ECCN 3A991.k.

Related Definitions: N/A

Items: a. Cold-cathode tubes, whether gas filled or not, operating similarly to a spark gap, having all of the following characteristics:

a.1. Containing three or more electrodes;

a.2. Anode peak voltage rating of 2.5 kV or more;

a.3. Anode peak current rating of 100 A or more; *and*

a.4. Anode delay time of 10 μs or less.

Technical Note: 3A228.a includes gas krytron tubes and vacuum sprytron tubes.

b. Triggered spark-gaps having both of the following characteristics:

b.1. An anode delay time of 15 μs or less; *and*

b.2. Rated for a peak current of 500 A or more.

c. Modules or assemblies with a fast switching function having all of the following characteristics:

c.1. Anode peak voltage rating greater than 2 kV;

c.2. Anode peak current rating of 500 A or more; *and*

c.3. Turn-on time of 1 μs or less.

3A229 Firing sets and equivalent high-current pulse generators for detonators controlled by 3A232 (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NP, AT, foreign policy

Control(s)	Country chart (see Supp. No. 1 to part 738)
NP applies to entire entry	NP Column 1
AT applies to entire entry	AT Column 1
Russian industry sector sanctions apply to entire entry.	See § 746.5 for specific license requirements and license review policy.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: (1) See ECCNs 3E001 and 1E001 (''development'' and ''production'') and 3E201 and 1E201 (''use'') for technology for items controlled under this entry. (2) See 1A007.a for explosive detonator firing sets designed to drive explosive detonators controlled by 1A007.b. (3) High explosives and related equipment for military use are ''subject to the ITAR'' (see 22 CFR parts 120 through 130).

Related Definitions: N/A

ECCN Controls: (1) Optically driven firing sets include both those employing laser initiation and laser charging. (2) Explosively driven firing sets include booth explosive ferroelectric and explosive ferromagnetic firing set types. (3) 3A229.b includes xenon flash-lamp drivers.

Items: a. Detonator firing sets (initiation systems, firesets), including electronically-charged, explosively-driven and optically-driven firing sets designed to drive multiple controlled detonators controlled by 3A232;

b. Modular electrical pulse generators (pulsers) having all of the following characteristics:

b.1. Designed for portable, mobile, or ruggedized use;

b.2. Capable of delivering their energy in less than 15 μs into loads of less than 40 Ω (ohms);

b.3. Having an output greater than 100 A;

b.4. No dimension greater than 30 cm;

b.5. Weight less than 30 kg; *and*

b.6. Specified for use over an extended temperature range 223 K (−50 °C) to 373 K (100 °C) or specified as suitable for aerospace applications.

c. Micro-firing units having all of the following characteristics:

c.1. No dimension greater than 35 mm;

c.2. Voltage rating of equal to or greater than 1 kV; *and*

c.3. Capacitance of equal to or greater than 100 nF.

3A230 High-speed pulse generators, and pulse heads therefor, having both of the following characteristics (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NP, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NP applies to entire entry	NP Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: (1) See ECCNs 3E001 (''development'' and ''production'') and 3E201 (''use'') for technology for items controlled under this entry. (2) See ECCNs 3A002.d.1, 3A992.a and 3A999.d.

Related Definitions: 1. In 3A230.b, the term ''pulse transition time'' is defined as the time interval between 10% and 90% voltage amplitude. 2. Pulse heads are impulse forming networks designed to accept a voltage step function and shape it into a variety of pulse forms that can include rectangular, triangular, step, impulse, exponential, or monocycle types. Pulse heads can be an integral part of the pulse generator, they can be a plug-in module to the device or they can be an externally connected device.

Items: a. Output voltage greater than 6 V into a resistive load of less than 55 ohms; *and*

b. ''Pulse transition time'' less than 500 ps.

3A231 Neutron generator systems, including tubes, having both of the characteristics described in this ECCN (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NP, AT, foreign policy

Control(s)	Country chart (see Supp. No. 1 to part 738)
NP applies to entire entry	NP Column 1
AT applies to entire entry	AT Column 1
Russian industry sector sanctions apply to entire entry.	See § 746.5 for specific license requirements and license review policy.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: See ECCNs 3E001 (''development'' and ''production'') and 3E201 (''use'') for technology for items controlled under this entry.

Related Definitions: N/A

Items: a. Designed for operation without an external vacuum system; and

b. Utilizing electrostatic acceleration to induce:

b.1. A tritium-deuterium nuclear reaction; *or*

b.2. A deuterium-deuterium nuclear reaction and capable of an output of 3×10^9 neutrons/s or greater.

3A232 Detonators and multipoint initiation systems, as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: AT, RS, foreign policy

Control(s)	Country chart (See Supp. No. 1 to part 738)
NP applies to entire entry	NP Column 1
AT applies to entire entry	AT Column 1
Russian industry sector sanctions apply to entire entry.	See § 746.5 for specific license requirements and license review policy.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: (1) See ECCNs 0A604 and 1A007 for electrically driven explosive detonators. (2) See ECCNs 3E001 (''development'' and ''production'') and 3E201 (''use'') for technology for items controlled under this entry. (3) High explosives and related equipment for military use are ''subject to the ITAR'' (see 22 CFR parts 120 through 130).

Related Definitions: N/A

ECCN Controls: This entry does not control detonators using only primary explosives, such as lead azide.

Items: a. [Reserved]

b. Arrangements using single or multiple detonators designed to nearly simultaneously initiate an explosive surface over an area greater than 5,000 mm^2 from a single firing signal with an initiation timing spread over the surface of less than 2.5 μs.

Technical Note: The word initiator is sometimes used in place of the word detonator.

3A233 Mass spectrometers, capable of measuring ions of 230 atomic mass units or greater and having a resolution of better than 2 parts in 230, and ion sources therefor, excluding items that are subject to the export licensing authority of the Nuclear Regulatory Commission (see 10 CFR part 110).

LICENSE REQUIREMENTS

Reason for Control: NP, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NP applies to entire entry	NP Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: (1) See ECCNs 3E001 (''development'' and ''production'') and 3E201 (''use'') for technology for items controlled under this entry. (2) Mass spectrometers ''specially designed'' or prepared for analyzing on-line samples of UF_6 gas streams are subject to the export licensing authority of the Nuclear Regulatory Commission (see 10 CFR part 110).

Related Definitions: N/A

Items: a. Inductively coupled plasma mass spectrometers (ICP/MS);

b. Glow discharge mass spectrometers (GDMS);

c. Thermal ionization mass spectrometers (TIMS);

d. Electron bombardment mass spectrometers having both of the following features:

d.1. A molecular beam inlet system that injects a collimated beam of analyte molecules into a region of the ion source where the molecules are ionized by an electron beam; *and*

d.2. One or more cold traps that can be cooled to a temperature of 193 K (−80 °C) or less in order to trap analyte molecules that are not ionized by the electron beam;

e. Mass spectrometers equipped with a microfluorination ion source designed for actinides or actinide fluorides.

Technical Notes: 1. ECCN 3A233.d controls mass spectrometers that are typically used for isotopic analysis of UF_6 gas samples.

2. Electron bombardment mass spectrometers in ECCN 3A233.d are also known as electron impact mass spectrometers or electron ionization mass spectrometers.

3. In ECCN 3A233.d.2, a ''cold trap'' is a device that traps gas molecules by condensing or freezing them on cold surfaces. For the purposes of this ECCN, a closed-loop gaseous helium cryogenic vacuum pump is not a cold trap.

3A234 Striplines to provide low inductance path to detonators with the following characteristics (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NP, AT

Control(s)	Country chart (see Supp. No. 1 to part 738)
NP applies to entire entry	NP Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
LVS: N/A
GBS: N/A
CIV: N/A
LIST OF ITEMS CONTROLLED
Related Controls: N/A
Related Definitions: N/A
Items: a. Voltage rating greater than 2 kV; *and*
b. Inductance of less than 20 nH.

3A611 Military electronics, as follows (see List of Items Controlled).
Reason for Control: NS, RS, AT, UN

Control(s)	Country chart (see Supp. No. 1 to part 738)
NS applies to entire entry except 3A611.y.	NS Column 1
RS applies to entire entry except 3A611.y.	RS Column 1
AT applies to entire entry	AT Column 1
UN applies to entire entry except 3A611.y.	See §746.1(b) for UN controls

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
LVS: $1500 for 3A611.a, .d through .h and .x; N/A for ECCN 3A611.c.
GBS: N/A
CIV: N/A
SPECIAL CONDITIONS FOR STA
STA: Paragraph (c)(2) of License Exception STA (§740.20(c)(2) of the EAR) may not be used for any item in 3A611.
LIST OF ITEMS CONTROLLED
Related Controls: (1) Electronic items that are enumerated in USML Category XI or other USML categories, and technical data (including software) directly related thereto, are subject to the ITAR. (2) Application specific integrated circuits (ASICs) and programmable logic devices (PLD) that are programmed for defense articles that are subject to the ITAR are controlled in USML Category XI(c)(1). (3) See ECCN 3A001.a.7 for controls on unprogrammed programmable logic devices (PLD). (4) Printed circuit boards and populated circuit cards with a layout that is ''specially designed'' for defense articles are controlled in USML Category XI(c)(2). (5) Multichip modules for which the pattern or layout is ''specially designed'' for defense articles are controlled in USML Category XI(c)(3). (6) Electronic items ''specially designed'' for military application that are not controlled in any USML category but are within the scope of another ''600 series'' ECCN or a 9x515 ECCN are controlled by that ''600 series'' ECCN or 9x515 ECCN. For example, electronic components not enumerated on the USML or a ''600 series'' other than 3A611 that are ''specially designed'' for a military aircraft controlled by USML Category VIII or ECCN 9A610 are controlled by the catch-all control in ECCN 9A610.x. Electronic components not enumerated on the USML or another ''600 series'' entry that are ''specially designed'' for a military vehicle controlled by USML Category VII or ECCN 0A606 are controlled by ECCN 0A606.x. Electronic components not enumerated on the USML that are ''specially designed'' for a missile controlled by USML Category IV are controlled by ECCN 9A604. (7) Certain radiation-hardened microelectronic circuits are controlled by ECCN 9A515.d or 9A515.e, when ''specially designed'' for defense articles, ''600 series'' items, or items controlled by 9A515.
Related Definitions: N/A
Items: a. Electronic ''equipment,'' ''end items,'' and ''systems'' ''specially designed'' for a military application that are not enumerated or otherwise described in either a USML category or another ''600 series'' ECCN.

Note to 3A611.a: ECCN 3A611.a includes any radar, telecommunications, acoustic or computer equipment, end items, or systems ''specially designed'' for military application that are not enumerated or otherwise described in any USML category or controlled by another ''600 series'' ECCN.

b. through d. [Reserved]

e. High frequency (HF) surface wave radar that maintains the positional state of maritime surface or low altitude airborne objects of interest in a received radar signal through time.

Note to 3A611.e: ECCN 3A611.e does not apply to systems, equipment, and assemblies ''specially designed'' for marine traffic control.

f. Application specific integrated circuits (ASICs) and programmable logic devices (PLD) that are not controlled by paragraph .y of this entry and that are programmed for ''600 series'' items.

Note to paragraph .f: In this paragraph, the term 'application specific integrated circuit' means an integrated circuit developed and produced for a specific application or function regardless of number of customers for which the integrated circuit is developed or produced.

g. Printed circuit boards and populated circuit card assemblies that are not controlled by paragraph .y of this entry and for which the layout is ''specially designed'' for ''600 series'' items.

h. Multichip modules that are not controlled by paragraph .y of this entry and for which the pattern or layout is ''specially designed'' for ''600 series'' items.

i. through w. [Reserved]

x. ''Parts,'' ''components,'' ''accessories,'' and ''attachments'' that are ''specially designed'' for a commodity controlled by this entry or for an article controlled by USML

Category XI, and not enumerated or described in any USML category or in any paragraph other than the .x paragraph of another 600 series ECCN or in paragraph .y of this entry.

Note 1 to ECCN 3A611.x: ECCN 3A611.x includes ''parts,'' ''components,'' ''accessories,'' and ''attachments'' ''specially designed'' for a radar, telecommunications, acoustic system or equipment or computer ''specially designed'' for military application that are neither controlled in any USML category nor controlled in any paragraph other than the .x paragraph of another ''600 series'' ECCN.

Note 2 to ECCN 3A611.x: ECCN 3A611.x controls ''parts'' and ''components'' ''specially designed'' for underwater sensors or projectors controlled by USML Category XI(c)(12) containing single-crystal lead magnesium niobate lead titanate (PMN–PT) based piezoelectrics.

Note 3 to ECCN 3A611.x: ''Parts,'' ''components,'' ''accessories,'' and ''attachments'' subject to the EAR and within the scope of any 600 series .x entry that are of a type that are or would potentially be for use in or with multiple platforms (e.g., military electronics, military vehicles, and military aircraft) may be classified under 3A611.x.

y. Specific ''parts,'' ''components,'' ''accessories,'' and ''attachments'' ''specially designed'' for a commodity subject to control in a ''600 series'' ECCN or a defense article and not elsewhere specified in any paragraph other than the .y paragraph of a ''600 series'' ECCN or the USML as follows, and ''parts,'' ''components,'' ''accessories,'' and ''attachments'' ''specially designed'' therefore:

y.1. Electrical connectors;
y.2. Electric fans;
y.3. Heat sinks;
y.4. Joy sticks;
y.5. Mica paper capacitors;
y.6. Microphones;
y.7. Potentiometers;
y.8. Rheostats;
y.9. Electric connector backshells;
y.10. Solenoids;
y.11. Speakers;
y.12. Trackballs;
y.13. Electric transformers;
y.14. Application specific integrated circuits (ASICs) and programmable logic devices (PLD) that are programmed for commodities controlled in the .y paragraph of any ''600 series'' ECCN;
y.15. Printed circuit boards and populated circuit card assemblies for which the layout is ''specially designed'' for an item controlled by the .y paragraph of any ''600 series'' ECCN;
y.16. Multichip modules for which the pattern or layout is ''specially designed'' for an item in the .y paragraph of a ''600 series'' ECCN;
y.17. Circuit breakers;
y.18. Ground fault circuit interrupters;
y.19. Electrical contacts;
y.20. Electrical guide pins;
y.21. Filtered and unfiltered mechanical switches;
y.22. Thumbwheels;
y.23. Fixed resistors;
y.24. Electrical jumpers;
y.25. Grounding straps;
y.26. Indicator dials;
y.27. Contactors;
y.28. Touchpads;
y.29. Mechanical caps;
y.30. Mechanical plugs;
y.31. Finger barriers;
y.32. Flip-guards;
y.33. Identification plates and nameplates;
y.34. Knobs;
y.35. Hydraulic, pneumatic, fuel and lubrication gauges.

Note to ECCN 3A611: When applying the ''specially designed'' definition to determine whether a printed circuit board, populated circuit card assembly or multichip module is controlled by paragraph .g, .h, .y.15 or .y.16 of this entry, the layout of the board or assembly and the pattern and layout of the module are the only characteristics that need be evaluated under the ''specially designed'' definition.

3A980 Voice print identification and analysis equipment and "specially designed" "components" therefor, n.e.s.

LICENSE REQUIREMENTS
Reason for Control: CC

Control(s)	Country Chart (See Supp. No. 1 to part 738)
CC applies to entire entry	CC Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
LVS: N/A
GBS: N/A
CIV: N/A
LIST OF ITEMS CONTROLLED
Related Controls: N/A
Related Definitions: N/A
Items: The list of items controlled is contained in the ECCN heading.

3A981 Polygraphs (except biomedical recorders designed for use in medical facilities for monitoring biological and neurophysical responses); fingerprint analyzers, cameras and equipment, n.e.s.; automated fingerprint and identification retrieval systems, n.e.s.; psychological stress analysis equipment; electronic monitoring restraint devices; and "specially designed" "components" and "accessories" therefor, n.e.s.

LICENSE REQUIREMENTS
Reason for Control: CC

Control(s)	Country Chart (See Supp. No. 1 to part 738)
CC applies to entire entry	CC Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
LVS: N/A
GBS: N/A
CIV: N/A
LIST OF ITEMS CONTROLLED
Related Controls: See ECCN 0A982 for other types of restraint devices.
Related Definitions: N/A
Items: The list of items controlled is contained in the ECCN heading.

Note to ECCN 3A981. In this ECCN, electronic monitoring restraint devices are devices used to record or report the location of confined persons for law enforcement or penal reasons. The term does not include devices that confine memory impaired patents to appropriate medical facilities.

3A991 Electronic devices, and "components" not controlled by 3A001.
LICENSE REQUIREMENTS
Reason for Control: AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
AT applies to entire entry	AT Column 1.

License Requirements Note: See § 744.17 of the EAR for additional license requirements for microprocessors having a processing speed of 5 GFLOPS or more and an arithmetic logic unit with an access width of 32 bit or more, including those incorporating ''information security'' functionality, and associated ''software'' and ''technology'' for the ''production'' or ''development'' of such microprocessors.
LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
LVS: N/A
GBS: N/A
CIV: N/A
LIST OF ITEMS CONTROLLED
Related Controls: N/A
Related Definitions: N/A
Items: a. ''Microprocessor microcircuits'', ''microcomputer microcircuits'', and microcontroller microcircuits having any of the following:

a.1. A performance speed of 5 GFLOPS or more and an arithmetic logic unit with an access width of 32 bit or more;

a.2. A clock frequency rate exceeding 25 MHz; *or*

a.3. More than one data or instruction bus or serial communication port that provides a direct external interconnection between parallel ''microprocessor microcircuits'' with a transfer rate of 2.5 Mbyte/s.

b. Storage integrated circuits, as follows:

b.1. Electrical erasable programmable read-only memories (EEPROMs) with a storage capacity;

b.1.a. Exceeding 16 Mbits per package for flash memory types; *or*

b.1.b. Exceeding either of the following limits for all other EEPROM types:

b.1.b.1. Exceeding 1 Mbit per package; *or*

b.1.b.2. Exceeding 256 kbit per package and a maximum access time of less than 80 ns;

b.2. Static random access memories (SRAMs) with a storage capacity:

b.2.a. Exceeding 1 Mbit per package; *or*

b.2.b. Exceeding 256 kbit per package and a maximum access time of less than 25 ns;

c. Analog-to-digital converters having any of the following:

c.1. A resolution of 8 bit or more, but less than 12 bit, with an output rate greater than 200 million words per second;

c.2. A resolution of 12 bit with an output rate greater than 105 million words per second;

c.3. A resolution of more than 12 bit but equal to or less than 14 bit withan output rate greater than 10 million words per second; *or*

c.4. A resolution of more than 14 bit with an output rate greater than 2.5 million words per second.

d. Field programmable logic devices having a maximum number of single-ended digital input/outputs between 200 and 700;

e. Fast Fourier Transform (FFT) processors having a rated execution time for a 1,024 point complex FFT of less than 1 ms.

f. Custom integrated circuits for which either the function is unknown, or the control status of the equipment in which the integrated circuits will be used is unknown to the manufacturer, having any of the following:

f.1. More than 144 terminals; *or*

f.2. A typical ''basic propagation delay time'' of less than 0.4 ns.

g. Traveling wave tubes, pulsed or continuous wave, as follows:

g.1. Coupled cavity tubes, or derivatives thereof;

g.2. Helix tubes, or derivatives thereof, with any of the following:

g.2.a. An ''instantaneous bandwidth'' of half an octave or more; *and*

g.2.b. The product of the rated average output power (expressed in kW) and the maximum operating frequency (expressed in GHz) of more than 0.2;

g.2.c. An ''instantaneous bandwidth'' of less than half an octave; *and*

g.2.d. The product of the rated average output power (expressed in kW) and the maximum operating frequency (expressed in GHz) of more than 0.4;

h. Flexible waveguides designed for use at frequencies exceeding 40 GHz;

i. Surface acoustic wave and surface skimming (shallow bulk) acoustic wave devices (*i.e.*, ''signal processing'' devices employing elastic waves in materials), having either of the following:

i.1. A carrier frequency exceeding 1 GHz; *or*

i.2. A carrier frequency of 1 GHz or less; *and*

i.2.a. A frequency side-lobe rejection exceeding 55 Db;

i.2.b. A product of the maximum delay time and bandwidth (time in microseconds and bandwidth in MHz) of more than 100; *or*

i.2.c. A dispersive delay of more than 10 microseconds.

j. Cells as follows:

j.1. Primary cells having an energy density of 550 Wh/kg or less at 293 K (20 °C);

j.2. Secondary cells having an energy density of 300 Wh/kg or less at 293 K (20 °C).

Note: 3A991.j. does not control batteries, including single cell batteries.

Technical Notes: 1. For the purpose of 3A991.j energy density (Wh/kg) is calculated from the nominal voltage multiplied by the nominal capacity in ampere-hours divided by the mass in kilograms. If the nominal capacity is not stated, energy density is calculated from the nominal voltage squared then multiplied by the discharge duration in hours divided by the discharge load in Ohms and the mass in kilograms.

2. For the purpose of 3A991.j, a 'cell' is defined as an electrochemical device, which has positive and negative electrodes, and electrolyte, and is a source of electrical energy. It is the basic building block of a battery.

3. For the purpose of 3A991.j.1, a 'primary cell' is a 'cell' that is not designed to be charged by any other source.

4. For the purpose of 3A991.j.2., a 'secondary cell' is a 'cell' that is designed to be charged by an external electrical source.

k. ''Superconductive'' electromagnets or solenoids ''specially designed'' to be fully charged or discharged in less than one minute, having all of the following:

Note: 3A991.k does not control ''superconductive'' electromagnets or solenoids designed for Magnetic Resonance Imaging (MRI) medical equipment.

k.1. Maximum energy delivered during the discharge divided by the duration of the discharge of more than 500 kJ per minute;

k.2. Inner diameter of the current carrying windings of more than 250 mm; *and*

k.3. Rated for a magnetic induction of more than 8T or ''overall current density'' in the winding of more than 300 A/mm^2.

l. Circuits or systems for electromagnetic energy storage, containing ''components'' manufactured from ''superconductive'' materials ''specially designed'' for operation at temperatures below the ''critical temperature'' of at least one of their ''superconductive'' constituents, having all of the following:

l.1. Resonant operating frequencies exceeding 1 MHz;

l.2. A stored energy density of 1 MJ/M^3 or more; *and*

l.3. A discharge time of less than 1 ms;

m. Hydrogen/hydrogen-isotope thyratrons of ceramic-metal construction and rate for a peak current of 500 A or more;

n. Digital integrated circuits based on any compound semiconductor having an equivalent gate count of more than 300 (2 input gates).

o. Solar cells, cell-interconnect-coverglass (CIC) assemblies, solar panels, and solar arrays, which are ''space qualified'' and not controlled by 3A001.e.4.

3A992 General purpose electronic equipment not controlled by 3A002.

LICENSE REQUIREMENTS

Reason for Control: AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
AT applies to entire entry	AT Column 1.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: a. Electronic test equipment, n.e.s.

b. Digital instrumentation magnetic tape data recorders having any of the following characteristics;

b.1. A maximum digital interface transfer rate exceeding 60 Mbit/s and employing helical scan techniques;

b.2. A maximum digital interface transfer rate exceeding 120 Mbit/s and employing fixed head techniques; or

b.3. ''Space qualified'';

c. Equipment, with a maximum digital interface transfer rate exceeding 60 Mbit/s, designed to convert digital video magnetic tape recorders for use as digital instrumentation data recorders;

d. Non-modular analog oscilloscopes having a bandwidth of 1 GHz or greater;

e. Modular analog oscilloscope systems having either of the following characteristics:

e.1. A mainframe with a bandwidth of 1 GHz or greater; *or*

e.2. Plug-in modules with an individual bandwidth of 4 GHz or greater;

f. Analog sampling oscilloscopes for the analysis of recurring phenomena with an effective bandwidth greater than 4 GHz;

g. Digital oscilloscopes and transient recorders, using analog-to-digital conversion techniques, capable of storing transients by sequentially sampling single-shot inputs at successive intervals of less than 1 ns (greater than 1 giga-sample per second), digitizing to 8 bits or greater resolution and storing 256 or more samples.

Note: This ECCN controls the following ''specially designed'' ''parts'' and ''components'' for analog oscilloscopes:

1. Plug-in units;

2. External amplifiers;

3. Pre-amplifiers;

4. Sampling devices;

5. Cathode ray tubes.

3A999 Specific Processing Equipment, n.e.s., as Follows (See List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: AT

Control(s):

Country Chart. AT applies to entire entry. A license is required for items controlled by this entry to North Korea for anti-terrorism reasons. The Commerce Country Chart is not designed to determine AT licensing requirements for this entry. See §742.19 of the EAR for additional information.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: (1) See also 3A225 (for frequency changers capable of operating in the frequency range of 600 Hz and above), and 3A233. (2) Certain auxiliary systems, equipment, ''parts'' and ''components'' for isotope separation plants, made of or protected by UF_6 resistant materials are subject to the export licensing authority of the Nuclear Regulatory Commission (see 10 CFR part 110).

Related Definitions: N/A

Items: a. Frequency changers capable of operating in the frequency range from 300 up to 600 Hz, n.e.s;

b. Mass spectrometers n.e.s;

c. All flash x-ray machines, and ''parts'' or ''components'' of pulsed power systems designed thereof, including Marx generators, high power pulse shaping networks, high voltage capacitors, and triggers;

d. Pulse amplifiers, n.e.s.;

e. Electronic equipment for time delay generation or time interval measurement, as follows:

e.1. Digital time delay generators with a resolution of 50 nanoseconds or less over time intervals of 1 microsecond or greater; *or*

e.2. Multi-channel (three or more) or modular time interval meter and chronometry equipment with resolution of 50 nanoseconds or less over time intervals of 1 microsecond or greater;

f. Chromatography and spectrometry analytical instruments.

B. ''TEST'', ''INSPECTION'' AND ''PRODUCTION EQUIPMENT''

3B001 Equipment for the manufacturing of semiconductor devices or materials, as follows (see List of Items Controlled) and "specially designed" "components" and "accessories" therefor.

LICENSE REQUIREMENTS

Reason for Control: NS, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 2
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: $500

GBS: Yes, except a.3 (molecular beam epitaxial growth equipment using gas sources), .e (automatic loading multi-chamber central wafer handling systems *only* if connected to equipment controlled by 3B001. a.3, or .f), and .f (lithography equipment).

CIV: Yes for equipment controlled by 3B001.a.1 and a.2.

LIST OF ITEMS CONTROLLED

Related Controls: See also 3B991.

Related Definitions: N/A

Items: a. Equipment designed for epitaxial growth as follows:

a.1. Equipment capable of producing a layer of any material other than silicon with a thickness uniform to less than ±2.5% across a distance of 75 mm or more;

Note: 3B001.a.1 includes atomic layer epitaxy (ALE) equipment.

a.2. Metal Organic Chemical Vapor Deposition (MOCVD) reactors designed for compound semiconductor epitaxial growth of material having two or more of the following elements: aluminum, gallium, indium, arsenic, phosphorus, antimony, or nitrogen;

a.3. Molecular beam epitaxial growth equipment using gas or solid sources;

b. Equipment designed for ion implantation and having any of the following:

b.1. [Reserved];

b.2. Being designed and optimized to operate at a beam energy of 20 keV or more and a beam current of 10 mA or more for hydrogen, deuterium, or helium implant;

b.3. Direct write capability;

b.4. A beam energy of 65 keV or more and a beam current of 45 mA or more for high energy oxygen implant into a heated semiconductor material ''substrate''; *or*

b.5. Being designed and optimized to operate at beam energy of 20keV or more and a beam current of 10mA or more for silicon implant into a semiconductor material ''substrate'' heated to 600 °C or greater;

c. [Reserved]

d. [Reserved]

e. Automatic loading multi-chamber central wafer handling systems having all of the following:

e.1. Interfaces for wafer input and output, to which more than two functionally different 'semiconductor process tools' controlled by 3B001.a.1, 3B001.a.2, 3B001.a.3 or 3B001.b are designed to be connected; *and*

e.2. Designed to form an integrated system in a vacuum environment for 'sequential multiple wafer processing';

Note: 3B001.e does not control automatic robotic wafer handling systems ''specially designed'' for parallel wafer processing.

Technical Notes: 1. For the purpose of 3B001.e, 'semiconductor process tools' refers to modular tools that provide physical processes for semiconductor production that are functionally different, such as deposition, implant or thermal processing.

2. For the purpose of 3B001.e, 'sequential multiple wafer processing' means the capability to process each wafer in different 'semiconductor process tools', such as by transferring each wafer from one tool to a second tool and on to a third tool with the automatic loading multi-chamber central wafer handling systems.

f. Lithography equipment as follows:

f.1. Align and expose step and repeat (direct step on wafer) or step and scan (scanner) equipment for wafer processing using photo-optical or X-ray methods and having any of the following:

f.1.a. A light source wavelength shorter than 193 nm; *or*

f.1.b. Capable of producing a pattern with a ''Minimum Resolvable Feature size'' (MRF) of 45 nm or less;

***Technical Note**: The 'Minimum Resolvable Feature size' (MRF) is calculated by the following formula:*

$$MRF = \frac{\text{(an exposure light source wavelength in nm) x (K factor)}}{\text{numerical aperture}}$$

where the K factor = 0.35

f.2 Imprint lithography equipment capable of production features of 45 nm or less;

Note: 3B001.f.2 includes:

—Micro contact printing tools

—Hot embossing tools

—Nano-imprint lithography tools

—Step and flash imprint lithography (S–FIL) tools

f.3. Equipment ''specially designed'' for mask making having all of the following:

f.3.a. A deflected focused electron beam, ion beam or ''laser'' beam; *and*

f.3.b. Having any of the following:

f.3.b.1. A Full-Width Half-Maximum (FWHM) spot size smaller than 65 nm and an image placement less than 17 nm (mean + 3 sigma); *or*

f.3.b.2. [Reserved]

f.3.b.3. A second-layer overlay error of less than 23 nm (mean + 3 sigma) on the mask;

f.4. Equipment designed for device processing using direct writing methods, having all of the following:

f.4.a. A deflected focused electron beam; *and*

f.4.b. Having any of the following:

f.4.b.1. A minimum beam size equal to or smaller than 15 nm; *or*

f.4.b.2. An overlay error less than 27 nm (mean + 3 sigma);

g. Masks and reticles, designed for integrated circuits controlled by 3A001;

h. Multi-layer masks with a phase shift layer not specified by 3B001.g and having any of the following:

h.1. Made on a mask ''substrate blank'' from glass specified as having less than 7 nm/cm birefringence; *or*

h.2. Designed to be used by lithography equipment having a light source wavelength less than 245 nm;

Note: 3B001.h. does not control multi-layer masks with a phase shift layer designed for the fabrication of memory devices not controlled by 3A001.

i. Imprint lithography templates designed for integrated circuits by 3A001.

3B002 "Test equipment "specially designed" for testing finished or unfinished semiconductor devices as follows (see List of

Items Controlled) and "specially designed" "components" and "accessories" therefor.

LICENSE REQUIREMENTS

Reason for Control: NS, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 2
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: $500

GBS: Yes

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: See also 3A999.a and 3B992.

Related Definitions: N/A

Items: a. For testing S-parameters of transistor devices at frequencies exceeding 31.8 GHz;

b. [Reserved]

c. For testing microwave integrated circuits controlled by 3A001.b.2.

3B611 Test, inspection, and production commodities for military electronics, as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, RS, AT, UN

Control(s)	Country chart (see Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 1
RS applies to entire entry	RS Column 1
AT applies to entire entry	AT Column 1
UN applies to entire entry	See §746.1(b) for UN controls

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: $1500.

GBS: N/A

CIV: N/A

SPECIAL CONDITIONS FOR STA

STA: Paragraph (c)(2) of License Exception STA (§740.20(c)(2) of the EAR) may not be used for any item in 3B611.

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: a. Test, inspection, and production end items and equipment ''specially designed'' for the ''development,'' ''production,'' repair, overhaul or refurbishing of items controlled in ECCN 3A611 (except 3A611.y) or USML Category XI that are not enumerated in USML Category XI or controlled by another ''600 series'' ECCN.

b. through w. [Reserved]

x. ''Parts,'' ''components,'' ''accessories'' and ''attachments'' that are ''specially designed'' for a commodity listed in this entry and that are not enumerated on the USML or controlled by another ''600 series'' ECCN.

3B991 Equipment not controlled by 3B001 for the manufacture of electronic "parts," "components" and materials (see List of Items Controlled), and "specially designed" "parts," "components" and "accessories" therefor.

LICENSE REQUIREMENTS

Reason for Control: AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: 'Sputtering' is an overlay coating process wherein positively charged ions are accelerated by an electric field towards the surface of a target (coating material). The kinetic energy of the impacting ions is sufficient to cause target surface atoms to be released and deposited on the substrate. (NOTE: Triode, magnetron or radio frequency sputtering to increase adhesion of coating and rate of deposition are ordinary modifications of the process.)

Items: a. Equipment ''specially designed'' for the manufacture of electron tubes, optical elements and ''specially designed'' ''parts'' and ''components'' therefor controlled by 3A001 or 3A991;

b. Equipment ''specially designed'' for the manufacture of semiconductor devices, integrated circuits and ''electronic assemblies'', as follows, and systems incorporating or having the characteristics of such equipment:

Note: 3B991.b also controls equipment used or modified for use in the manufacture of other devices, such as imaging devices, electro-optical devices, acoustic-wave devices.

b.1. Equipment for the processing of materials for the manufacture of devices, ''parts'' and ''components'' as specified in the heading of 3B991.b, as follows:

Note: 3B991 does not control quartz furnace tubes, furnace liners, paddles, boats (except ''specially designed'' caged boats), bubblers, cassettes or crucibles ''specially designed'' for the processing equipment controlled by 3B991.b.1.

b.1.a. Equipment for producing polycrystalline silicon and materials controlled by 3C001;

b.1.b. Equipment ''specially designed'' for purifying or processing III/V and II/VI semiconductor materials controlled by 3C001, 3C002, 3C003, 3C004, or 3C005 except crystal pullers, for which see 3B991.b.1.c below;

b.1.c. Crystal pullers and furnaces, as follows:

Note: 3B991.b.1.c does not control diffusion and oxidation furnaces.

b.1.c.1. Annealing or recrystallizing equipment other than constant temperature furnaces employing high rates of energy transfer capable of processing wafers at a rate exceeding 0.005 m^2 per minute;

b.1.c.2. ''Stored program controlled'' crystal pullers having any of the following characteristics:

b.1.c.2.a. Rechargeable without replacing the crucible container;

b.1.c.2.b. Capable of operation at pressures above 2.5×10^5 Pa; *or*

b.1.c.2.c. Capable of pulling crystals of a diameter exceeding 100 mm;

b.1.d. ''Stored program controlled'' equipment for epitaxial growth having any of the following characteristics:

b.1.d.1. Capable of producing a silicon layer with a thickness uniform to less than ±2.5% across a distance of 200 mm or more;

b.1.d.2. Capable of producing a layer of any material other than silicon with a thickness uniformity across the wafer of equal to or better than ±3.5%; *or*

b.1.d.3. Rotation of individual wafers during processing;

b.1.e. Molecular beam epitaxial growth equipment;

b.1.f. Magnetically enhanced 'sputtering' equipment with ''specially designed'' integral load locks capable of transferring wafers in an isolated vacuum environment;

b.1.g. Equipment ''specially designed'' for ion implantation, ion-enhanced or photo-enhanced diffusion, having any of the following characteristics:

b.1.g.1. Patterning capability;

b.1.g.2. Beam energy (accelerating voltage) exceeding 200 keV;

b.1.g.3 Optimized to operate at a beam energy (accelerating voltage) of less than 10 keV; *or*

b.1.g.4. Capable of high energy oxygen implant into a heated ''substrate'';

b.1.h. ''Stored program controlled'' equipment for the selective removal (etching) by means of anisotropic dry methods (*e.g.*, plasma), as follows:

b.1.h.1. Batch types having either of the following:

b.1.h.1.a. End-point detection, other than optical emission spectroscopy types; *or*

b.1.h.1.b. Reactor operational (etching) pressure of 26.66 Pa or less;

b.1.h.2. Single wafer types having any of the following:

b.1.h.2.a. End-point detection, other than optical emission spectroscopy types;

b.1.h.2.b. Reactor operational (etching) pressure of 26.66 Pa or less; *or*

b.1.h.2.c. Cassette-to-cassette and load locks wafer handling;

Notes: 1. ''Batch types'' refers to machines not ''specially designed'' for production processing of single wafers. Such machines can process two or more wafers simultaneously with common process parameters, e.g., RF power, temperature, etch gas species, flow rates.

2. ''Single wafer types'' refers to machines ''specially designed'' for production processing of single wafers. These machines may use automatic wafer handling techniques to load a single wafer into the equipment for processing. The definition includes equipment that can load and process several wafers but where the etching parameters, e.g., RF power or end point, can be independently determined for each individual wafer.

b.1.i. ''Chemical vapor deposition'' (CVD) equipment, *e.g.*, plasma-enhanced CVD (PECVD) or photo-enhanced CVD, for semiconductor device manufacturing, having either of the following capabilities, for deposition of oxides, nitrides, metals or polysilicon:

b.1.i.1. ''Chemical vapor deposition'' equipment operating below 10^5 Pa; or

b.1.i.2. PECVD equipment operating either below 60 Pa (450 millitorr) or having automatic cassette-to-cassette and load lock wafer handling;

Note: 3B991.b.1.i does not control low pressure ''chemical vapor deposition'' (LPCVD) systems or reactive ''sputtering'' equipment.

b.1.j. Electron beam systems ''specially designed'' or modified for mask making or semiconductor device processing having any of the following characteristics:

b.1.j.1. Electrostatic beam deflection;

b.1.j.2. Shaped, non-Gaussian beam profile;

b.1.j.3. Digital-to-analog conversion rate exceeding 3 MHz;

b.1.j.4. Digital-to-analog conversion accuracy exceeding 12 bit; *or*

b.1.j.5. Target-to-beam position feedback control precision of 1 micrometer or finer;

Note: 3B991.b.1.j does not control electron beam deposition systems or general purpose scanning electron microscopes.

b.1.k. Surface finishing equipment for the processing of semiconductor wafers as follows:

b.1.k.1. ''Specially Designed'' equipment for backside processing of wafers thinner than 100 micrometer and the subsequent separation thereof; *or*

b.1.k.2. ''Specially Designed'' equipment for achieving a surface roughness of the active surface of a processed wafer with a two-sigma value of 2 micrometer or less, total indicator reading (TIR);

Note: 3B991.b.1.k does not control single-side lapping and polishing equipment for wafer surface finishing.

b.1.l. Interconnection equipment which includes common single or multiple vacuum chambers ''specially designed'' to permit the integration of any equipment controlled by 3B991 into a complete system;

b.1.m. ''Stored program controlled'' equipment using ''lasers'' for the repair or trimming of ''monolithic integrated circuits'' with either of the following characteristics:

b.1.m.1. Positioning accuracy less than ±1 micrometer; *or*

b.1.m.2. Spot size (kerf width) less than 3 micrometer.

b.2. Masks, mask ''substrates,'' mask-making equipment and image transfer equipment for the manufacture of devices, ''parts'' and ''components'' as specified in the heading of 3B991, as follows:

Note: The term ''masks'' refers to those used in electron beam lithography, X-ray lithography, and ultraviolet lithography, as well as the usual ultraviolet and visible photo-lithography.

b.2.a. Finished masks, reticles and designs therefor, except:

b.2.a.1. Finished masks or reticles for the production of unembargoed integrated circuits; *or*

b.2.a.2. Masks or reticles, having both of the following characteristics:

b.2.a.2.a. Their design is based on geometries of 2.5 micrometer or more; *and*

b.2.a.2.b. The design does not include special features to alter the intended use by means of ''production equipment'' or ''software''

b.2.b. Mask ''substrates'' as follows:

b.2.b.1. Hard surface (*e.g.*, chromium, silicon, molybdenum) coated ''substrates'' (*e.g.*, glass, quartz, sapphire) for the preparation of masks having dimensions exceeding 125 mm × 125 mm; *or*

b.2.b.2. ''Substrates'' ''specially designed'' for X-ray masks;

b.2.c. Equipment, other than general purpose computers, ''specially designed'' for computer aided design (CAD) of semiconductor devices or integrated circuits;

b.2.d. Equipment or machines, as follows, for mask or reticle fabrication:

b.2.d.1. Photo-optical step and repeat cameras capable of producing arrays larger than 100 mm × 100 mm, or capable of producing a single exposure larger than 6 mm × 6 mm in the image (*i.e.*, focal) plane, or capable of producing line widths of less than 2.5 micrometer in the photoresist on the ''substrate';

b.2.d.2. Mask or reticle fabrication equipment using ion or ''laser'' beam lithography capable of producing line widths of less than 2.5 micrometer; *or*

b.2.d.3. Equipment or holders for altering masks or reticles or adding pellicles to remove defects;

Note: 3B991.b.2.d.1 and b.2.d.2 do not control mask fabrication equipment using photo-optical methods which was either commercially available before the 1st January, 1980, or has a performance no better than such equipment.

b.2.e. ''Stored program controlled'' equipment for the inspection of masks, reticles or pellicles with:

b.2.e.1. A resolution of 0.25 micrometer or finer; *and*

b.2.e.2. A precision of 0.75 micrometer or finer over a distance in one or two coordinates of 63.5 mm or more;

Note: 3B991.b.2.e does not control general purpose scanning electron microscopes except when ''specially designed'' and instrumented for automatic pattern inspection.

b.2.f. Align and expose equipment for wafer production using photo-optical or X-ray methods, *e.g.*, lithography equipment, including both projection image transfer equipment and step and repeat (direct step on wafer) or step and scan (scanner) equipment, capable of performing any of the following functions:

Note: 3B991.b.2.f does not control photo-optical contact and proximity mask align and expose equipment or contact image transfer equipment.

b.2.f.1. Production of a pattern size of less than 2.5 micrometer;

b.2.f.2. Alignment with a precision finer than ±0.25 micrometer (3 sigma);

b.2.f.3. Machine-to-machine overlay no better than ±0.3 micrometer; or

b.2.f.4. A light source wavelength shorter than 400 nm;

b.2.g. Electron beam, ion beam or X-ray equipment for projection image transfer capable of producing patterns less than 2.5 micrometer;

Note: For focused, deflected-beam systems (direct write systems), see 3B991.b.1.j or b.10.

b.2.h. Equipment using ''lasers'' for direct write on wafers capable of producing patterns less than 2.5 micrometer.

b.3. Equipment for the assembly of integrated circuits, as follows:

b.3.a. ''Stored program controlled'' die bonders having all of the following characteristics:

b.3.a.1. ''specially designed'' for ''hybrid integrated circuits';

b.3.a.2. X-Y stage positioning travel exceeding 37.5 × 37.5 mm; and

b.3.a.3. Placement accuracy in the X-Y plane of finer than ±10 micrometer;

b.3.b. ''Stored program controlled'' equipment for producing multiple bonds in a single operation (*e.g.*, beam lead bonders, chip carrier bonders, tape bonders);

b.3.c. Semi-automatic or automatic hot cap sealers, in which the cap is heated locally to a higher temperature than the body of the package, ''specially designed'' for ceramic microcircuit packages controlled by 3A001 and that have a throughput equal to or more than one package per minute.

Note: 3B991.b.3 does not control general purpose resistance type spot welders.

b.4. Filters for clean rooms capable of providing an air environment of 10 or less particles of 0.3 micrometer or smaller per 0.02832 m^3 and filter materials therefor.

3B992 Equipment not controlled by 3B002 for the inspection or testing of electronic "components" and materials, (see List of Items Controlled) and "specially designed" "parts," "components" and "accessories" therefor.

LICENSE REQUIREMENTS

Reason for Control: AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
AT applies to entire entry	AT Column 1.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: See also 3A992.a.

Related Definitions: N/A

Items: a. Equipment ''specially designed'' for the inspection or testing of electron tubes, optical elements and ''specially designed'' ''parts'' and ''components'' therefor controlled by 3A001 or 3A991;

b. Equipment ''specially designed'' for the inspection or testing of semiconductor devices, integrated circuits and ''electronic assemblies'', as follows, and systems incorporating or having the characteristics of such equipment:

Note: 3B992.b also controls equipment used or modified for use in the inspection or testing of other devices, such as imaging devices, electro-optical devices, acoustic-wave devices.

b.1. ''Stored program controlled'' inspection equipment for the automatic detection of defects, errors or contaminants of 0.6 micrometer or less in or on processed wafers, ''substrates'', other than printed circuit boards or chips, using optical image acquisition techniques for pattern comparison;

Note: 3B992.b.1 does not control general purpose scanning electron microscopes, except when ''specially designed'' and instrumented for automatic pattern inspection.

b.2. ''specially designed'' ''stored program controlled'' measuring and analysis equipment, as follows:

b.2.a. ''specially designed'' for the measurement of oxygen or carbon content in semiconductor materials;

b.2.b. Equipment for line width measurement with a resolution of 1 micrometer or finer;

b.2.c. ''specially designed'' flatness measurement instruments capable of measuring deviations from flatness of 10 micrometer or less with a resolution of 1 micrometer or finer.

b.3. ''Stored program controlled'' wafer probing equipment having any of the following characteristics:

b.3.a. Positioning accuracy finer than 3.5 micrometer;

b.3.b. Capable of testing devices having more than 68 terminals; *or*

b.3.c. Capable of testing at a frequency exceeding 1 GHz;

b.4. Test equipment as follows:

b.4.a. ''Stored program controlled'' equipment ''specially designed'' for testing discrete semiconductor devices and unencapsulated dice, capable of testing at frequencies exceeding 18 GHz;

Technical Note: Discrete semiconductor devices include photocells and solar cells.

b.4.b. ''Stored program controlled'' equipment ''specially designed'' for testing integrated circuits and ''electronic assemblies'' thereof, capable of functional testing:

b.4.b.1. At a 'pattern rate' exceeding 20 MHz; *or*

b.4.b.2. At a 'pattern rate' exceeding 10 MHz but not exceeding 20 MHz and capable of testing packages of more than 68 terminals.

Notes: 3B992.b.4.b does not control test equipment ''specially designed'' for testing:

1. memories;

2. ''Assemblies'' or a class of ''electronic assemblies'' for home and entertainment applications; and

3. Electronic ''parts,'' ''components,'' ''assemblies'' and integrated circuits not controlled by 3A001 or 3A991 provided such test equipment does not incorporate computing facilities with ''user accessible programmability''.

Technical Note: For purposes of 3B992.b.4.b, 'pattern rate' is defined as the maximum frequency of digital operation of a tester. It is therefore equivalent to the highest data rate that a tester can provide in non-multiplexed mode. It is also referred to as test speed, maximum digital frequency or maximum digital speed.

b.4.c. Equipment ''specially designed'' for determining the performance of focal-plane arrays at wavelengths of more than 1,200 nm, using ''stored program controlled'' measurements or computer aided evaluation and having any of the following characteristics:

b.4.c.1. Using scanning light spot diameters of less than 0.12 mm;

b.4.c.2. Designed for measuring photosensitive performance parameters and for evaluating frequency response, modulation transfer function, uniformity of responsivity or noise; *or*

b.4.c.3. Designed for evaluating arrays capable of creating images with more than 32 × 32 line elements;

b.5. Electron beam test systems designed for operation at 3 keV or below, or ''laser'' beam systems, for non-contactive probing of powered-up semiconductor devices having any of the following:

b.5.a. Stroboscopic capability with either beam blanking or detector strobing;

b.5.b. An electron spectrometer for voltage measurements with a resolution of less than 0.5 V; *or*

b.5.c. Electrical tests fixtures for performance analysis of integrated circuits;

Note: 3B992.b.5 does not control scanning electron microscopes, except when ''specially designed'' and instrumented for non-contactive probing of a powered-up semiconductor device.

b.6. ''Stored program controlled'' multi-functional focused ion beam systems ''specially designed'' for manufacturing, repairing, physical layout analysis and testing of masks or semiconductor devices and having either of the following characteristics:

b.6.a. Target-to-beam position feedback control precision of 1 micrometer or finer; *or*

b.6.b. Digital-to-analog conversion accuracy exceeding 12 bit;

b.7. Particle measuring systems employing ''lasers'' designed for measuring particle size and concentration in air having both of the following characteristics:

b.7.a. Capable of measuring particle sizes of 0.2 micrometer or less at a flow rate of 0.02832 m^3 per minute or more; *and*

b.7.b. Capable of characterizing Class 10 clean air or better.

C. ''MATERIALS''

3C001 Hetero-epitaxial materials consisting of a "substrate" having stacked epitaxially grown multiple layers of any of the following (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 2
AT applies to entire entry	AT Column 1

REPORTING REQUIREMENTS See §743.1 of the EAR for reporting requirements for exports under License Exceptions, and Validated End-User authorizations

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: $3000

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: This entry does not control equipment or material whose functionality has been unalterably disabled are not controlled.

Related Definitions: N/A

Items: a. Silicon (Si);

b. Germanium (Ge);

c. Silicon Carbide (SiC); *or*

d. ''III/V compounds'' of gallium or indium.

Note: 3C001.d does not apply to a ''substrate'' having one or more P-type epitaxial layers of GaN, InGaN, AlGaN, InAlN, InAlGaN, GaP, InGaP, AlInP or InGaAlP, independent of the sequence of the elements, except if the P-type epitaxial layer is between N-type layers.

3C002 Resist materials as follows (see List of Items Controlled) and "substrates" coated with the following resists.

Reason for Control: NS, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 2
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: $3000

GBS: Yes for 3C002.a provided that they are not also controlled by 3C002.b through .e.

CIV: Yes for 3C002.a provided that they are not also controlled by 3C002.b through .e.

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: a. Resists designed for semiconductor lithography as follows:

a.1. Positive resists adjusted (optimized) for use at wavelengths less than 245 nm but equal to or greater than 15 nm;

a.2. Resists adjusted (optimized) for use at wavelengths less than 15 nm but greater than 1 nm;

b. All resists designed for use with electron beams or ion beams, with a sensitivity of 0.01 μcoulomb/mm^2 or better;

c. [Reserved]

d. All resists optimized for surface imaging technologies;

e. All resists designed or optimized for use with imprint lithography equipment specified by 3B001.f.2 that use either a thermal or photo-curable process.

3C003 Organo-inorganic compounds as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 2
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: $3000

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: This entry controls only compounds whose metallic, partly metallic or non-metallic element is directly linked to carbon in the organic part of the molecule.

Related Definition: N/A
Items: a. Organo-metallic compounds of aluminum, gallium or indium, having a purity (metal basis) better than 99.999%;

b. Organo-arsenic, organo-antimony and organo-phosphorus compounds, having a purity (inorganic element basis) better than 99.999%.

3C004 Hydrides of phosphorus, arsenic or antimony, having a purity better than 99.999%, even diluted in inert gases or hydrogen.

LICENSE REQUIREMENTS
Reason for Control: NS, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 2
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
LVS: $3000
GBS: N/A
CIV: N/A
LIST OF ITEMS CONTROLLED
Related Controls: N/A
Related Definition: N/A
Items: The list of items controlled is contained in the ECCN heading.

Note: This entry does not control hydrides containing 20% molar or more of inert gases or hydrogen.

3C005 Silicon carbide (SiC), gallium nitride (GaN), aluminum nitride (AlN) or aluminum gallium nitride (AlGaN) semiconductor "substrates", or ingots, boules, or other preforms of those materials, having resistivities greater than 10,000 ohm-cm at 20 °C.

LICENSE REQUIREMENTS
Reason for Control: NS, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 2.
AT applies to entire entry	AT Column 1.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
LVS: $3000
GBS: Yes
CIV: Yes
LIST OF ITEMS CONTROLLED
Related Controls: See ECCN 3E001 for related development and production technology, and ECCN 3B991.b.1.b for related production equipment.
Related Definition: N/A
Items: The list of items controlled is contained in the ECCN heading.

3C006 "Substrates" specified in 3C005 with at least one epitaxial layer of silicon carbide, gallium nitride, aluminum nitride or aluminum gallium nitride.

LICENSE REQUIREMENTS
Reason for Control: NS, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 2.
AT applies to entire entry	AT Column 1.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
LVS: $3000
GBS: Yes
CIV: Yes
LIST OF ITEMS CONTROLLED
Related Controls: See ECCN 3D001 for related ''development'' or ''production'' ''software'', ECCN 3E001 for related ''development'' and ''production'' ''technology'', and ECCN 3B991.b.1.b for related ''production'' equipment.
Related Definition: N/A
Items: The list of items controlled is contained in the ECCN heading.

3C992 Positive resists designed for semiconductor lithography specially adjusted (optimized) for use at wavelengths between 370 and 245 nm.

LICENSE REQUIREMENTS
Reason for Control: AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
LVS: N/A
GBS: N/A
CIV: N/A
LIST OF ITEMS CONTROLLED
Related Controls: N/A
Related Definitions: N/A
Items: The list of items controlled is contained in the ECCN heading.

D. ''SOFTWARE''

3D001 "Software" "specially designed" for the "development" or "production" of equipment controlled by 3A001.b to 3A002.h or 3B (except 3B991 and 3B992).

LICENSE REQUIREMENTS
Reason for Control: NS, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to ''software'' for equipment controlled by 3A001.b to 3A001.h, 3A002, and 3B.	NS Column 1
AT applies to entire entry	AT Column 1

REPORTING REQUIREMENTS See §743.1 of the EAR for reporting requirements for exports under License Exceptions, and Validated End-User authorizations

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: Yes, except for ''software'' ''specially designed'' for the ''development'' or ''production'' of Traveling Wave Tube Amplifiers described in 3A001.b.8 having operating frequencies exceeding 18 GHz.

SPECIAL CONDITIONS FOR STA

STA: License Exception STA may not be used to ship or transmit ''software'' ''specially designed'' for the ''development'' or ''production'' of equipment specified by 3A002.g.1 or 3B001.a.2 to any of the destinations listed in Country Group A:6 (See Supplement No. 1 to part 740 of the EAR).

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading.

3D002 " Software" "specially designed" for the "use" of equipment controlled by 3B001.a to .f, or 3B002.

LICENSE REQUIREMENTS

Reason for Control: NS, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 1
AT applies to entire entry	AT Column 1

License Requirements Note: See §744.17 of the EAR for additional license requirements for microprocessors having a processing speed of 5 GFLOPS or more and an arithmetic logic unit with an access width of 32 bit or more, including those incorporating ''information security'' functionality, and associated ''software'' and ''technology'' for the ''production'' or ''development'' of such microprocessors.

REPORTING REQUIREMENTS See §743.1 of the EAR for reporting requirements for exports under License Exceptions, and Validated End-User authorizations

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: Yes

LIST OF ITEMS CONTROLLED

Related Controls: Also see 3D991.

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading.

3D003 'Physics-based' simulation "software" "specially designed" for the "development" of lithographic, etching or deposition processes for translating masking patterns into specific topographical patterns in conductors, dielectrics or semiconductor materials..

LICENSE REQUIREMENTS

Reason for Control: NS, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: Yes

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: (1) Libraries, design attributes or associated data for the design of semiconductor devices or integrated circuits are considered as ''technology''. (2) 'Physics-based' in 3D003 means using computations to determine a sequence of physical cause and effect events based on physical properties (*e.g.*, temperature, pressure, diffusion constants and semiconductor materials properties).

Items: The list of items controlled is contained in the ECCN heading.

3D004 "Software" "specially designed" for the "development" of equipment controlled by 3A003.

LICENSE REQUIREMENTS

Reason for Control: NS, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: Yes

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading.

3D101 "Software" "specially designed" or modified for the "use" of equipment controlled by 3A101.b.

LICENSE REQUIREMENTS

Reason for Control: MT, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
MT applies to entire entry	MT Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A
LIST OF ITEMS CONTROLLED
Related Controls: N/A
Related Definitions: N/A
Items: The list of items controlled is contained in the ECCN heading.

3D201 "Software" "specially designed" for the "use" of equipment described in ECCN 3A225.
LICENSE REQUIREMENTS
Reason for Control: NP, AT

Control(s)	Country chart (see Supp. No. 1 to part 738)
NP applies to entire entry	NP Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
CIV: N/A
TSR: N/A
LIST OF ITEMS CONTROLLED
Related Controls: See ECCN 3E202 (''development,'' ''production,'' and ''use'') for ''technology'' for items controlled under this entry.
Related Definitions: N/A
Items: The list of items controlled is contained in the ECCN heading.

3D202 "Software" "specially designed" to enhance or release the performance characteristics of frequency changers or generators to meet or exceed the level of the performance characteristics described in ECCN 3A225.
LICENSE REQUIREMENTS
Reason for Control: NP, AT

Control(s)	Country chart (see Supp. No. 1 to part 738)
NP applies to entire entry	NP Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
CIV: N/A
TSR: N/A
LIST OF ITEMS CONTROLLED
Related Controls: See ECCN 3E202 (''development,'' ''production,'' and ''use'') for ''technology'' for items controlled under this entry.
Related Definitions: N/A
Items: a. ''Software'' or encryption keys/codes ''specially designed'' to enhance or release the performance characteristics of equipment not controlled by ECCN 3A225, so that such equipment meets or exceeds the performance characteristics of equipment controlled by that ECCN.

b. ''Software'' ''specially designed'' to enhance or release the performance characteristics of equipment controlled by ECCN 3A225.

3D611 "Software" "specially designed" for military electronics, as follows (see List of Items Controlled).
LICENSE REQUIREMENTS
Reason for Control: NS, RS, AT, UN

Control(s)	Country chart (see Supp. No. 1 to part 738)
NS applies to entire entry except 3D611.y.	NS Column 1
RS applies to entire entry except 3D611.y.	RS Column 1
AT applies to entire entry	AT Column 1
UN applies to entire entry except 3D611.y.	See §746.1(b) for UN controls

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
CIV: N/A
TSR: N/A
SPECIAL CONDITIONS FOR STA
STA: 1. Paragraph (c)(2) of License Exception STA (§740.20(c)(2) of the EAR) may not be used for any ''software'' in 3D611. 2. Except for ''build-to-print'' software, License Exception STA is not eligible for software enumerated in ECCN 3D611.b.
LIST OF ITEMS CONTROLLED
Related Controls: ''Software'' directly related to articles enumerated in USML Category XI is controlled in USML Category XI(d).
Related Definitions: N/A
Items: a. ''Software'' ''specially designed'' for the ''development,'' ''production,'' operation, or maintenance of commodities controlled by ECCN 3A611 (other than 3A611.y) and 3B611.

b. ''Software'' ''specially designed'' for the ''development,'' ''production,'' operation or maintenance of technology in ECCN 3E611.b.

c. through x. [Reserved]

y. ''Software'' ''specially designed'' for the ''production,'' ''development,'' operation or maintenance of commodities enumerated in ECCNs 3A611.y.

3D980 "Software" "specially designed" for the "development," "production" or "use" of commodities controlled by 3A980 and 3A981.
LICENSE REQUIREMENTS
Reason for Control: CC, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
CC applies to entire entry	CC Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
CIV: N/A
TSR: N/A
LIST OF ITEMS CONTROLLED

Related Controls: N/A
Related Definitions: N/A
Items: The list of items controlled is contained in the ECCN heading.

3D991 "Software" "specially designed" for the "development," "production" or "use" of electronic devices, "parts" or "components" controlled by 3A991, general purpose electronic equipment controlled by 3A992, or manufacturing and test equipment controlled by 3B991 and 3B992; or "software" "specially designed" for the "use" of equipment controlled by 3B001.g and .h.

LICENSE REQUIREMENTS
Reason for Control: AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
AT applies to entire entry	AT Column 1

License Requirements Note: See § 744.17 of the EAR for additional license requirements for microprocessors having a processing speed of 5 GFLOPS or more and an arithmetic logic unit with an access width of 32 bit or more, including those incorporating ''information security'' functionality, and associated ''software'' and ''technology'' for the ''production'' or ''development'' of such microprocessors.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
CIV: N/A
TSR: N/A
LIST OF ITEMS CONTROLLED
Related Controls: N/A
Related Definitions: N/A
Items: The list of items controlled is contained in the ECCN heading.

E. ''TECHNOLOGY''

3E001 "Technology" according to the General Technology Note for the "development" or "production" of equipment or materials controlled by 3A (except 3A980, 3A981, 3A991 3A992, or 3A999), 3B (except 3B991 or 3B992) or 3C (except 3C992).

LICENSE REQUIREMENTS
Reason for Control: NS, MT, NP, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to ''technology'' for items controlled by 3A001, 3A002, 3A003, 3B001, 3B002, or 3C001 to 3C006.	NS Column 1.
MT applies to ''technology'' for equipment controlled by 3A001 or 3A101 for MT reasons.	MT Column 1.
NP applies to ''technology'' for equipment controlled by 3A001, 3A201, or 3A225 to 3A234 for NP reasons.	NP Column 1.
AT applies to entire entry	AT Column 1.

License Requirements Note: See § 744.17 of the EAR for additional license requirements for microprocessors having a processing speed of 5 GFLOPS or more and an arithmetic logic unit with an access width of 32 bit or more, including those incorporating ''information security'' functionality, and associated ''software'' and ''technology'' for the ''production'' or ''development'' of such microprocessors.

REPORTING REQUIREMENTS See § 743.1 of the EAR for reporting requirements for exports under License Exceptions, and Validated End-User authorizations

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: Yes for ''Technology'' According to the General Technology Note for the ''Development'' or ''Production of Equipment in 3B001.c.

TSR: Yes, except N/A for MT, and ''technology'' for the ''development'' or ''production'' of: (a) Traveling Wave Tube Amplifiers described in 3A001.b.8, having operating frequencies exceeding 19 GHz; (b) solar cells, coverglass-interconnect-cells or covered-interconnect-cells (CIC) ''assemblies,'' solar arrays and/or solar panels described in 3A001.e.4; (c) Microwave ''Monolithic Integrated Circuits'' (MMIC) power amplifiers in 3A001.b.2; and (d) discrete microwave transistors in 3A001.b.3.

SPECIAL CONDITIONS FOR STA

STA: License Exception STA may not be used to ship or transmit ''technology'' according to the General Technology Note for the ''development'' or ''production'' of equipment specified by ECCNs 3A002.g.1 or 3B001.a.2 to any of the destinations listed in Country Group A:6 (See Supplement No. 1 to part 740 of the EAR). License Exception STA may not be used to ship or transmit ''technology'' according to the General Technology Note for the ''development'' or ''production'' of components specified by ECCN 3A001.b.2 or b.3 to any of the destinations listed in Country Group A:5 or A:6 (See Supplement No. 1 to part 740 of the EAR).

LIST OF ITEMS CONTROLLED
Related Controls: See also 3E101 and 3E201.
Related Definition: N/A
Items: The list of items controlled is contained in the ECCN heading.

Note 1: 3E001 does not control ''technology'' for the ''production'' of equipment or ''components'' controlled by 3A003.

Note 2: 3E001 does not control ''technology'' for the ''development'' or ''production'' of integrated circuits controlled by 3A001.a.3 to a.12, having all of the following:

(a) Using ''technology'' at or above 0.130 μm; and

(b) Incorporating multi-layer structures with three or fewer metal layers.

3E002 "Technology" according to the General Technology Note other than that controlled in 3E001 for the "development" or "production" of a "microprocessor microcircuit", "micro-computer microcircuit" and microcontroller microcircuit core, having an arithmetic logic unit with an access width of 32 bits or more and any of the following features or characteristics (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 1.
AT applies to entire entry	AT Column 1.

License Requirements Note: See § 744.17 of the EAR for additional license requirements for microprocessors having a processing speed of 5 GFLOPS or more and an arithmetic logic unit with an access width of 32 bit or more, including those incorporating ''information security'' functionality, and associated ''software'' and ''technology'' for the ''production'' or ''development'' of such microprocessors.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: Yes, for deemed exports, as described in §734.13(a)(2) of the EAR, of ''technology'' for the ''development'' or ''production'' of general purpose microprocessor cores with a vector processor unit with operand length of 64-bit or less, 64-bit floating operations not exceeding 50 GFLOPS, or 16-bit or more floating-point operations not exceeding 50 GMACS (billions of 16-bit fixed-point multiply-accumulate operations per second). License Exception CIV does not apply to ECCN 3E002 technology also required for the development or production of items controlled under ECCNs beginning with 3A, 3B, or 3C, or to ECCN 3E002 technology also controlled under ECCN 3E003.

TSR: Yes.

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: a. A 'vector processor unit' designed to perform more than two calculations on floating-point vectors (one dimensional arrays of 32-bit or larger numbers) simultaneously;

Technical Note: A 'vector processor unit' is a processor element with built-in instructions that perform multiple calculations on floating-point vectors (one-dimensional arrays of 32-bit or larger numbers) simultaneously, having at least one vector arithmetic logic unit and vector registers of at least 32 elements each.

b. Designed to perform more than four 64-bit or larger floating-point operation results per cycle; *or*

c. Designed to perform more than eight 16-bit fixed-point multiply-accumulate results per cycle (*e.g.*, digital manipulation of analog information that has been previously converted into digital form, also known as digital ''signal processing'').

Note 1: 3E002 does not control ''technology'' for multimedia extensions.

Note 2: 3E002 does not control ''technology'' for the ''development'' or ''production'' of microprocessor cores, having all of the following:

a. Using ''technology'' at or above 0.130 μm; and

b. Incorporating multi-layer structures with five or fewer metal layers.

Note 3: 3E002 includes ''technology'' for digital signal processors and digital array processors.

3E003 Other "technology" for the "development" or "production" of the following (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 1.
AT applies to entire entry	AT Column 1.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: Yes, except .f. and .g

LIST OF ITEMS CONTROLLED

Related Controls: See 3E001 for silicon-on-insulation (SOI) technology for the ''development'' or ''production'' related to radiation hardening of integrated circuits.

Related Definitions: N/A

Items: a. Vacuum microelectronic devices;

b. Hetero-structure semiconductor electronic devices such as high electron mobility transistors (HEMT), hetero-bipolar transistors (HBT), quantum well and super lattice devices;

Note: 3E003.b does not control ''technology'' for high electron mobility transistors (HEMT) operating at frequencies lower than 31.8 GHz and hetero-junction bipolar transistors (HBT) operating at frequencies lower than 31.8 GHz.

c. ''Superconductive'' electronic devices;

d. Substrates of films of diamond for electronic components;

e. Substrates of silicon-on-insulator (SOI) for integrated circuits in which the insulator is silicon dioxide;

f. Substrates of silicon carbide for electronic components;

g. Electronic vacuum tubes operating at frequencies of 31.8 GHz or higher.

3E101 "Technology" according to the General Technology Note for the "use" of equipment or "software" controlled by 3A001.a.1 or .2, 3A101, or 3D101.

LICENSE REQUIREMENTS

Reason for Control: MT, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
MT applies to entire entry	MT Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading.

3E102 "Technology" according to the General Technology Note for the "development" of "software" controlled by 3D101.

LICENSE REQUIREMENTS

Reason for Control: MT, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
MT applies to entire entry	MT Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading.

3E201 "Technology" according to the General Technology Note for the "use" of equipment controlled by 3A001.e.2 or .e.3, 3A201 or 3A225 to 3A234.

LICENSE REQUIREMENTS

Reason for Control: NP, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NP applies to "technology" for equipment controlled by 3A001.e.2, or .e.3, 3A201 or 3A225 to 3A234 for NP reasons.	NP Column 1.
AT applies to entire entry	AT Column 1.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading.

3E202 "Technology" according to the General Technology Note for the "development," "production," or "use" of "software" controlled by 3D201 or 3D202.

LICENSE REQUIREMENTS

Reason for Control: NP, AT

Control(s)	Country chart (see Supp. No. 1 to part 738)
NP applies to entire entry	NP Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading.

3E611 "Technology" "required" for military electronics, as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, RS, AT, UN

Control(s)	Country chart (see Supp. No. 1 to part 738)
NS applies to entire entry except 3E611.y.	NS Column 1
RS applies to entire entry except 3E611.y.	RS Column 1
AT applies to entire entry	AT Column 1
UN applies to entire entry except 3E611.y.	See §746.1(b) for UN controls

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

SPECIAL CONDITIONS FOR STA

STA: 1. Paragraph (c)(2) of License Exception STA (§740.20(c)(2) of the EAR) may not be used for any ''technology'' in 3E611. 2. Except for ''build-to-print technology,'' License Exception STA is not eligible for ''technology'' enumerated in ECCN 3E611.b.

LIST OF ITEMS CONTROLLED

Related Controls: Technical data directly related to articles enumerated in USML Category XI is controlled in USML Category XI(d).

Related Definitions: N/A

Items: a. ''Technology'' (other than that controlled by 3E611.b or 3E611.y) ''required'' for the ''development,'' ''production,'' operation, installation, maintenance, repair, overhaul, or refurbishing of commodities or software controlled by ECCN 3A611, 3B611 or 3D611.

b. ''Technology'' ''required'' for the ''development,'' ''production,'' operation, installation, maintenance, repair, overhaul, or refurbishing of the following if controlled by ECCN 3A611, including 3A611.x:

b.1. Helix traveling wave tubes (TWTs);

b.2. Transmit/receive or transmit modules;

c. through x. [Reserved]

y. ''Technology'' ''required'' for the ''production,'' ''development,'' operation, installation, maintenance, repair, overhaul, or refurbishing of commodities or software enumerated in ECCNs 3A611.y or 3D611.y.

3E980 "Technology" "specially designed" for "development," "production" or "use" of commodities controlled by 3A980 and 3A981.

LICENSE REQUIREMENTS

Reason for Control: CC, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
CC applies to entire entry	CC Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading.

3E991 "Technology" for the "development," "production" or "use" of electronic devices, "parts" or "components" controlled by 3A991, general purpose electronic equipment controlled by 3A992, or manufacturing and test equipment controlled by 3B991 or 3B992, or materials controlled by 3C992.

LICENSE REQUIREMENTS

Reason for Control: AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
AT applies to entire entry	AT Column 1

License Requirements Note: See §744.17 of the EAR for additional license requirements for microprocessors having a processing speed of 5 GFLOPS or more and an arithmetic logic unit with an access width of 32 bit or more, including those incorporating ''information security'' functionality, and associated ''software'' and ''technology'' for the ''production'' or ''development'' of such microprocessors.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading.

EAR99 Items subject to the EAR that are not elsewhere specified in this CCL Category or in any other category in the CCL are designated by the number EAR99.

CATEGORY 4—COMPUTERS

Note 1: Computers, related equipment and ''software'' performing telecommunications or ''local area network'' functions must also be evaluated against the performance characteristics of Category 5, Part 1 (Telecommunications).

Note 2: Control units that directly interconnect the buses or channels of central processing units, ''main storage'' or disk controllers are not regarded as telecommunications equipment described in Category 5, Part 1 (Telecommunications).

N.B: For the control status of ''software'' ''specially designed'' for packet switching, see ECCN 5D001. (Telecommunications).

A. ''END ITEMS'', ''EQUIPMENT'', ''ACCESSORIES'', ''ATTACHMENTS'', ''PARTS'', ''COMPONENTS'' AND ''SYSTEMS''

4A001 Electronic computers and related equipment, having any of the following (see List of Items Controlled), and "electronic assemblies" and "specially designed" "components" therefore.

LICENSE REQUIREMENTS

Reason for Control: NS, MT, AT, NP

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 2.
MT applies to items in 4A001.a when the parameters in 4A101 are met or exceeded.	MT Column 1.
AT applies to entire entry	AT Column 1.

NP applies, unless a License Exception is available. See §742.3(b) of the EAR for information on applicable licensing review policies.

REPORTING REQUIREMENTS See §743.1 of the EAR for reporting requirements for exports under License Exceptions, and Validated End-User authorizations

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: $5000 for 4A001.a; N/A for MT

GBS: N/A

CIV: N/A

SPECIAL CONDITIONS FOR STA

STA: License Exception STA may not be used to ship any commodity in 4A001.a.2 to any of the destinations listed in Country Group A:6 (See Supplement No. 1 to part 740 of the EAR).

LIST OF ITEMS CONTROLLED

Related Controls: See also 4A101 and 4A994. Equipment designed or rated for transient ionizing radiation is ''subject to the ITAR'' (see 22 CFR parts 120 through 130).

Related Definitions: For the purposes of integrated circuits in 4A001.a.2, 5×10^3 Gy(Si) = 5×10^5 Rads (Si); 5×10^6 Gy (Si)/s = 5×10^8 Rads (Si)/s.

Items: a. ''Specially designed'' to have any of the following:

a.1. Rated for operation at an ambient temperature below 228 K (−45 °C) or above 358 K (85 °C); or

Note: 4A001.a.1 does not apply to computers ''specially designed'' for civil automobile, railway train or ''civil aircraft'' applications.

a.2. Radiation hardened to exceed any of the following specifications:

a.2.a. A total dose of 5×10^3 Gy (Si);

a.2.b. A dose rate upset of 5×10^6 Gy (Si)/s; *or*

a.2.c. Single Event Upset of $1 \times 10^{-}$ Error/bit/day;

Note: 4A001.a.2 does not apply to computers ''specially designed'' for ''civil aircraft'' applications.

b. [Reserved]

4A003 "Digital computers," "electronic assemblies" and related equipment therefor, as follows (see List of Items Controlled) and "specially designed" "components" therefor

LICENSE REQUIREMENTS

Reason for Control: NS, CC, AT

Control(s)	Country chart (See Supp. No. 1 to part 738)
NS applies to 4A003.b and .c	NS Column 1
NS applies to 4A003.e and .g	NS Column 2
CC applies to "digital computers" for computerized finger-print equipment.	CC Column 1
AT applies to entire entry (refer to 4A994 for controls on "digital computers" with a APP > 0.0128 but ≤ 12.5 WT).	AT Column 1

Note: For all destinations, except those countries in Country Group E:1 or E:2 of Supplement No. 1 to part 740 of the EAR, no license is required (NLR) for computers with an ''Adjusted Peak Performance'' (''APP'') not exceeding 12.5 Weighted TeraFLOPS (WT) and for ''electronic assemblies'' described in 4A003.c that are not capable of exceeding an ''Adjusted Peak Performance'' (''APP'') exceeding 12.5 Weighted TeraFLOPS (WT) in aggregation, except certain transfers as set forth in § 746.3 (Iraq).

REPORTING REQUIREMENTS

Special Post Shipment Verification reporting and recordkeeping requirements for exports of computers to destinations in Computer Tier 3 may be found in § 743.2 of the EAR.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: $5000; N/A for 4A003.b and .c.

GBS: Yes, for 4A003.g and ''specially designed'' ''parts'' and ''components'' therefor, exported separately or as part of a system.

APP: Yes, for computers controlled by 4A003.b, and ''electronic assemblies'' controlled by 4A003.c, to the exclusion of other technical parameters. See § 740.7 of the EAR.

CIV: Yes, for 4A003.g.

LIST OF ITEMS CONTROLLED

Related Controls: See also 4A994 and 4A980

Related Definitions: N/A

Items:

Note 1: 4A003 includes the following:

—'Vector processors' (as defined in Note 7 of the ''Technical Note on ''Adjusted Peak Performance'' (''APP'')'');

—Array processors;

—Digital signal processors;

—Logic processors;

—Equipment designed for ''image enhancement'';

Note 2: The control status of the ''digital computers'' and related equipment described in 4A003 is determined by the control status of other equipment or systems provided:

a. The ''digital computers'' or related equipment are essential for the operation of the other equipment or systems;

b. The ''digital computers'' or related equipment are not a ''principal element'' of the other equipment or systems; and

N.B. 1: The control status of ''signal processing'' or ''image enhancement'' equipment ''specially designed'' for other equipment with functions limited to those required for the other equipment is determined by the control status of the other equipment even if it exceeds the ''principal element'' criterion.

N.B. 2: For the control status of ''digital computers'' or related equipment for telecommunications equipment, see Category 5, Part 1 (Telecommunications).

c. The ''technology'' for the ''digital computers'' and related equipment is determined by 4E.

a. [Reserved]

b. ''Digital computers'' having an ''Adjusted Peak Performance'' (''APP'') exceeding 12.5 weighted TeraFLOPS (WT);

c. ''Electronic assemblies'' ''specially designed'' or modified to be capable of enhancing performance by aggregation of processors so that the ''APP'' of the aggregation exceeds the limit in 4A003.b.

Note 1: 4A003.c applies only to ''electronic assemblies'' and programmable interconnections not exceeding the limit in 4A003.b when shipped as unintegrated ''electronic assemblies.''

Note 2: 4A003.c does not control ''electronic assemblies'' ''specially designed'' for a product

or family of products whose maximum configuration does not exceed the limit of 4A003.b.

d. to f. [Reserved]

N.B.: For ''electronic assemblies,'' modules or equipment, performing analog-to-digital conversions, see 3A002.h.

g. Equipment ''specially designed'' for aggregating the performance of ''digital computers'' by providing external interconnections which allow communications at unidirectonal data rates exceeding 2.0 Gbyte/s per link.

Note: 4A003.g does not control internal interconnection equipment (e.g., backplanes, buses) passive interconnection equipment, ''network access controllers'' or ''communication channel controllers''.

4A004 Computers as follows (see List of Items Controlled) and "specially designed" related equipment, "electronic assemblies" and "components" therefor.

LICENSE REQUIREMENTS

Reason for Control: NS, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 2
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: $5000

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: a. ''Systolic array computers'';

b. ''Neural computers'';

c. ''Optical computers''.

4A101 Analog computers, "digital computers" or digital differential analyzers, other than those controlled by 4A001 designed or modified for use in "missiles", having any of the following (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: MT, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
MT applies to entire entry	MT Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: a. Rated for continuous operation at temperatures from below 228 K (−45 °C) to above 328 K (+ 55 °C); *or*

b. Designed as ruggedized or 'radiation hardened'.

Note: 'Radiation hardened' means that the ''part,'' ''component'' or equipment is designed or rated to withstand radiation levels which meet or exceed a total irradiation dose of 5×10^5 rads (Si).

4A102 "Hybrid computers" "specially designed" for modelling, simulation or design integration of "missiles" or their subsystems. (These items are "subject to the ITAR." See 22 CFR parts 120 through 130.)

4A611 Computers, and "parts," "components," "accessories," and "attachments" "specially designed" therefor, "specially designed" for a military application that are not enumerated in any USML category are controlled by ECCN 3A611.

4A980 Computers for fingerprint equipment, n.e.s.

LICENSE REQUIREMENTS

Reason for Control: CC, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
CC applies to entire entry	CC Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading.

Note: 4A980 does not control equipment limited to one finger and designed for user authentication or access control.

4A994 Computers, "electronic assemblies" and related equipment not controlled by 4A001 or 4A003, and "specially designed" "parts" and "components" therefor (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
AT applies to entire entry	AT Column 1.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items:

Note 1: The control status of the ''digital computers'' and related equipment described in 4A994 is determined by the control status of other equipment or systems provided:

a. The ''digital computers'' or related equipment are essential for the operation of the other equipment or systems;

b. The ''digital computers'' or related equipment are not a ''principal element'' of the other equipment or systems; and,

N.B. 1: The control status of ''signal processing'' or ''image enhancement'' equipment ''specially designed'' for other equipment with functions limited to those required for the other equipment is determined by the control status of the other equipment even if it exceeds the ''principal element'' criterion.

N.B. 2: For the control status of ''digital computers'' or related equipment for telecommunications equipment, see Category 5, Part 1 (Telecommunications).

c. The ''technology'' for the ''digital computers'' and related equipment is determined by 4E.

a. Electronic computers and related equipment, and ''electronic assemblies'' and ''specially designed'' ''parts'' and ''components'' therefor, rated for operation at an ambient temperature above 343 K (70 °C);

b. ''Digital computers'', including equipment of ''signal processing'' or image enhancement'', having an ''Adjusted Peak Performance'' (''APP'') equal to or greater than 0.0128 Weighted TeraFLOPS (WT);

c. ''Electronic assemblies'' that are ''specially designed'' or modified to enhance performance by aggregation of processors, as follows:

c.1. Designed to be capable of aggregation in configurations of 16 or more processors;

c.2. [Reserved];

Note 1: 4A994.c applies only to ''electronic assemblies'' and programmable interconnections with a ''APP'' not exceeding the limits in 4A994.b, when shipped as unintegrated ''electronic assemblies''. It does not apply to ''electronic assemblies'' inherently limited by nature of their design for use as related equipment controlled by 4A994.k.

Note 2: 4A994.c does not control any ''electronic assembly'' ''specially designed'' for a product or family of products whose maximum configuration does not exceed the limits of 4A994.b.

d–e. [Reserved];

f. Equipment for ''signal processing'' or ''image enhancement'' having an ''Adjusted Peak Performance'' (''APP'') equal to or greater than [0.0128] Weighted TeraFLOPS WT];

g–h. [Reserved];

i. Equipment containing ''terminal interface equipment'' exceeding the limits in 5A991;

j. Equipment ''specially designed'' to provide external interconnection of ''digital computers'' or associated equipment that allows communications at data rates exceeding 80 Mbyte/s.

Note: 4A994.j does not control internal interconnection equipment (e.g., backplanes, buses) passive interconnection equipment, ''network access controllers'' or ''communication channel controllers''.

k. ''Hybrid computers'' and ''electronic assemblies'' and ''specially designed'' ''parts'' and ''components'' therefor containing analog-to-digital converters having all of the following characteristics:

k.1. 32 channels or more; and,

k.2. A resolution of 14 bit (plus sign bit) or more with a conversion rate of 200,000 conversions/s or more.

B. ''TEST'', ''INSPECTION'' AND ''PRODUCTION EQUIPMENT'' [RESERVED]

C. ''MATERIALS'' [RESERVED]

D. ''SOFTWARE''

Note: The control status of ''software'' for equipment described in other Categories is dealt with in the appropriate Category.

4D001 "Software" as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, CC, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 1.
CC applies to "software" for computerized finger-print equipment controlled by 4A003 for CC reasons.	CC Column 1.
AT applies to entire entry	AT Column 1.

REPORTING REQUIREMENTS See §743.1 of the EAR for reporting requirements for exports under License Exceptions, and Validated End-User authorizations.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: Yes, except for ''software'' for the ''development'' or ''production'' of commodities with an ''Adjusted Peak Performance'' (''APP'') exceeding 12.5 WT.

APP: Yes to specific countries (see §740.7 of the EAR for eligibility criteria).

SPECIAL CONDITIONS FOR STA

STA: License Exception STA may not be used to ship or transmit ''software'' ''specially designed'' for the ''development'' or ''production'' of equipment specified by ECCN 4A001.a.2 or for the ''development'' or ''production'' of ''digital computers''

having an 'Adjusted Peak Performance' ('APP') exceeding 12.5Weighted TeraFLOPS (WT) to any of the destinations listed in Country Group A:6 (See Supplement No.1 to part 740 of the EAR).

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: a. ''Software'' ''specially designed'' or modified for the ''development'' or ''production'', of equipment or ''software'' controlled by 4A001, 4A003, 4A004, or 4D (except 4D980, 4D993 or 4D994).

b. ''Software'', other than that controlled by 4D001.a, ''specially designed'' or modified for the ''development'' or ''production'' of equipment as follows:

b.1. ''Digital computers'' having an ''Adjusted Peak Performance'' (''APP'') exceeding 6.0 Weighted TeraFLOPS (WT);

b.2. ''Electronic assemblies'' ''specially designed'' or modified for enhancing performance by aggregation of processors so that the ''APP'' of the aggregation exceeds the limit in 4D001.b.1.

4D980 "Software" "specially designed" for the "development," "production" or "use" of commodities controlled by 4A980.

LICENSE REQUIREMENTS

Reason for Control: CC, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
CC applies to entire entry	CC Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading.

4D993 "Program" proof and validation "software", "software" allowing the automatic generation of "source codes", and operating system "software" that are "specially designed" for real time processing equipment (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: ''Global interrupt latency time'' is the time taken by the computer system to recognize an interrupt due to the event, service the interrupt and perform a context switch to an alternate memory-resident task waiting on the interrupt.

Items: a. ''Program'' proof and validation ''software'' using mathematical and analytical techniques and designed or modified for ''programs'' having more than 500,000 ''source code'' instructions;

b. ''Software'' allowing the automatic generation of ''source codes'' from data acquired on line from external sensors described in the Commerce Control List; *or*

c. Operating system ''software'' ''specially designed'' for ''real time processing'' equipment that guarantees a ''global interrupt latency time'' of less than 20 microseconds.

4D994 "Software" Other Than That Controlled in 4D001 "Specially Designed" or Modified for the "Development", "Production", or "Use" of Equipment Controlled by 4A101 and 4A994.

LICENSE REQUIREMENTS

Reason for Control: AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading.

E. ''TECHNOLOGY''

4E001 "Technology" as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, MT, CC, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 1.
MT applies to ''technology'' for items controlled by 4A001.a and 4A101 for MT reasons.	MT Column 1.
CC applies to ''technology'' for computerized fingerprint equipment controlled by 4A003 for CC reasons.	CC Column 1.
AT applies to entire entry	AT Column 1.

REPORTING REQUIREMENTS See §743.1 of the EAR for reporting requirements for exports under License Exceptions, and Validated End-User authorizations

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: Yes, except for ''technology'' for the ''development'' or ''production'' of commodities with an ''Adjusted Peak Performance'' (''APP'') exceeding 12.5 WT.

APP: Yes to specific countries (see §740.7 of the EAR for eligibility criteria).

SPECIAL CONDITIONS FOR STA

STA: License Exception STA may not be used to ship or transmit ''technology'' according to the General Technology Note for the ''development'' or ''production'' of any of the following equipment or ''software'': a. Equipment specified by ECCN 4A001.a.2; b. ''Digital computers'' having an 'Adjusted Peak Performance' ('APP') exceeding 12.5 Weighted TeraFLOPS (WT); or c. ''software'' specified in the License Exception STA paragraph found in the License Exception section of ECCN 4D001 to any of the destinations listed in Country Group A:6 (See Supplement No. 1 to part 740 of the EAR).

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: a. ''Technology'' according to the General Technology Note, for the ''development'', ''production'', or ''use'' of equipment or ''software'' controlled by 4A (except 4A980 or 4A994) or 4D (except 4D980, 4D993, 4D994).

b. ''Technology'', other than that controlled by 4E001.a, ''specially designed'' or modified for the ''development'' or ''production'' of equipment as follows:

b.1. ''Digital computers'' having an ''Adjusted Peak Performance'' (''APP'') exceeding 6.0 Weighted TeraFLOPS (WT);

b.2. ''Electronic assemblies'' ''specially designed'' or modified for enhancing performance by aggregation of processors so that the ''APP'' of the aggregation exceeds the limit in 4E001.b.1.

4E980 "Technology" for the "development," "production" or "use" of commodities controlled by 4A980.

LICENSE REQUIREMENTS

Reason for Control: CC, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
CC applies to entire entry	CC Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading.

4E992 " Technology" other than that controlled in 4E001 for the "development," "production," or "use" of equipment controlled by 4A994, or "software" controlled by 4D993 or 4D994.

LICENSE REQUIREMENTS

Reason for Control: AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading.

4E993 " Technology" for the "development" or "production" of equipment designed for "multi-data-stream processing."

LICENSE REQUIREMENTS

Reason for Control: AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading.

EAR99 Items subject to the EAR that are not elsewhere specified in this CCL Category or in any other category in the CCL are designated by the number EAR99.

Technical Note on ''Adjusted Peak Performance'' (''APP'')

''APP'' is an adjusted peak rate at which ''digital computers'' perform 64-bit or larger floating point additions and multiplications.

Abbreviations used in this Technical Note

n number of processors in the ''digital computer''

I processor number (i,....n)

ti processor cycle time (ti = 1/Fi)

Fi processor frequency

Ri peak floating point calculating rate
Wi architecture adjustment factor

''APP'' is expressed in Weighted TeraFLOPS (WT) in units of 10^{12} adjusted floating point operations per second.

Outline of ''APP'' Calculation Method

1. For each processor i, determine the peak number of 64-bit or larger floating-point operations, FPOi, performed per cycle for each processor in the ''digital computer''.

Note: In determining FPO, include only 64-bit or larger floating point additions and/or multiplications. All floating point operations must be expressed in operations per processor cycle; operations requiring multiple cycles may be expressed in fractional results per cycle. For processors not capable of performing calculations on floating-point operands of 64-bits or more the effective calculating rate R is zero.

2. Calculate the floating point rate R for each processor.

$R_i = FPO_i/t_i$.

3. Calculate ''APP'' as

''APP'' $= W_1 \times R_1 + W_2 \times R_2 + * * * + W_n \times R_n$.

4. For 'vector processors', $W_i = 0.9$. *For non-'vector processors'*, $W_i = 0.3$.

Note 1: For processors that perform compound operations in a cycle, such as an addition and multiplication, each operation is counted.

Note 2: For a pipelined processor the effective calculating rate R is the faster of the pipelined rate, once the pipeline is full, or the non-pipelined rate.

Note 3: The calculating rate R of each contributing processor is to be calculated at its maximum value theoretically possible before the ''APP'' of the combination is derived. Simultaneous operations are assumed to exist when the computer manufacturer claims concurrent, parallel, or simultaneous operation or execution in a manual or brochure for the computer.

Note 4: Do not include processors that are limited to input/output and peripheral functions (e.g., disk drive, communication and video display) when calculating ''APP''.

Note 5: ''APP'' values are not to be calculated for processor combinations (inter)connected by ''Local Area Networks'', Wide Area Networks, I/O shared connections/devices, I/O controllers and any communication interconnection implemented by ''software''.

Note 6: ''APP'' values must be calculated for processor combinations containing processors ''specially designed'' to enhance performance by aggregation, operating simultaneously and sharing memory

Technical Notes: 1. Aggregate all processors and accelerators operating simultaneously and located on the same die.

2. Processor combinations share memory when any processor is capable of accessing any memory location in the system through the hardware transmission of cache lines or memory words, without the involvement of any software mechanism, which may be achieved using ''electronic assemblies'' specified in 4A003.c.

Note 7: A 'vector processor' is defined as a processor with built-in instructions that perform multiple calculations on floating-point vectors (one-dimensional arrays of 64-bit or larger numbers) simultaneously, having at least 2 vector functional units and at least 8 vector registers of at least 64 elements each.

CATEGORY 5—TELECOMMUNICATIONS AND ''INFORMATION SECURITY''

PART 1—TELECOMMUNICATIONS

Notes: 1. The control status of ''components'', test and ''production'' equipment, and ''software'' therefor which are ''specially designed'' for telecommunications equipment or systems is determined in Category 5, Part 1.

N.B.: For ''lasers'' ''specially designed'' for telecommunications equipment or systems, see ECCN 6A005.

2. ''Digital computers'', related equipment or ''software'', when essential for the operation and support of telecommunications equipment described in this Category, are regarded as ''specially designed'' ''components'', provided they are the standard models customarily supplied by the manufacturer. This includes operation, administration, maintenance, engineering or billing computer systems.

A. ''END ITEMS'', ''EQUIPMENT'', ''ACCESSORIES'', ''ATTACHMENTS'', ''PARTS'', ''COMPONENTS'' AND ''SYSTEMS''

5A001 Telecommunications systems, equipment, "components" and "accessories," as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, SL, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to 5A001.a, .e, .b.5, f.3 and .h..	NS Column 1
NS applies to 5A001.b (except .b.5), .c, .d, .f (except f.3), and .g..	NS Column 2
SL applies to 5A001.f.1	A license is required for all destinations, as specified in § 742.13 of the EAR. Accordingly, a column specific to this control does not appear on the Commerce Country Chart (Supplement No. 1 to Part 738 of the EAR). **Note to SL paragraph:** *This licensing requirement does not supersede, nor does it implement, construe or limit the scope of any criminal statute, including, but not limited to the Omnibus Safe Streets Act of 1968, as amended.*
AT applies to entire entry	AT Column 1

REPORTING REQUIREMENTS See §743.1 of the EAR for reporting requirements for exports under License Exceptions, and Validated End-User authorizations

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A for 5A001.a, b.5, .e, f.3 and .h;

$5000 for 5A001.b.1, .b.2, .b.3, .b.6, .d, f.2, f.4, and .g;

$3000 for 5A001.c.

GBS: Yes, except 5A001.a, b.5, e, and h.

CIV: Yes, except 5A001.a, b.3, b.5, e, and h.

SPECIAL CONDITIONS FOR STA

STA: License Exception STA may not be used to ship any commodity in 5A001.b.3, .b.5 or .h to any of the destinations listed in Country Group A:6 (See Supplement No. 1 to part 740 of the EAR).

LIST OF ITEMS CONTROLLED

Related Controls: 1. See USML Category XI for controls on direction-finding ''equipment'' including types of ''equipment'' in ECCN 5A001.e and any other military or intelligence electronic ''equipment'' that is ''subject to the ITAR.'' 2. See USML Category XI(a)(4)(iii) for controls on electronic attack and jamming ''equipment'' defined in 5A001.f and .h that are subject to the ITAR. 3. See also ECCNs 5A101, 5A980, and 5A991.

Related Definitions: N/A

Items: a. Any type of telecommunications equipment having any of the following characteristics, functions or features:

a.1. ''Specially designed''to withstand transitory electronic effects or electromagnetic pulse effects, both arising from a nuclear explosion;

a.2. Specially hardened to withstand gamma, neutron or ion radiation; *or*

a.3. ''Specially designed'' to operate outside the temperature range from 218 K (−55 °C) to 397 K (124 °C);

Note: 5A001.a.3 applies only to electronic equipment.

b. Telecommunication systems and equipment, and ''specially designed'' ''components'' and ''accessories'' therefor, having any of the following characteristics, functions or features:

b.1 Being underwater untethered communications systems having any of the following:

b.1.a. An acoustic carrier frequency outside the range from 20 kHz to 60 kHz;

b.1.b. Using an electromagnetic carrier frequency below 30 kHz; *or*

b.1.c. Using electronic beam steering techniques; *or*

b.1.d. Using ''lasers'' or light-emitting diodes (LEDs), with an output wavelength greater than 400 nm and less than 700 nm, in a ''local area network'';

b.2. Being radio equipment operating in the 1.5 MHz to 87.5 MHz band and having all of the following:

b.2.a. Automatically predicting and selecting frequencies and ''total digital transfer rates'' per channel to optimize the transmission; *and*

b.2.b. Incorporating a linear power amplifier configuration having a capability to support multiple signals simultaneously at an output power of 1 kW or more in the frequency range of 1.5 MHz or more but less than 30 MHz, or 250 W or more in the frequency range of 30 MHz or more but not exceeding 87.5 MHz, over an ''instantaneous bandwidth'' of one octave or more and with an output harmonic and distortion content of better than −80 dB;

b.3. Being radio equipment employing ''spread spectrum'' techniques, including ''frequency hopping'' techniques, not controlled in 5A001.b.4 and having any of the following:

b.3.a. User programmable spreading codes; *or*

b.3.b. A total transmitted bandwidth which is 100 or more times the bandwidth of any one information channel and in excess of 50 kHz;

Note: 5A001.b.3.b does not control radio equipment ''specially designed'' for use with any of the following:

a. Civil cellular radio-communications systems; or

b. Fixed or mobile satellite Earth stations for commercial civil telecommunications.

Note: 5A001.b.3 does not control equipment operating at an output power of 1 W or less.

b.4. Being radio equipment employing ultra-wideband modulation techniques, having user programmable channelizing codes, scrambling codes, or network identification codes and having any of the following:

b.4.a. A bandwidth exceeding 500 MHz; *or*

b.4.b. A ''fractional bandwidth'' of 20% or more;

b.5. Being digitally controlled radio receivers having all of the following:

b.5.a. More than 1,000 channels;

b.5.b. A 'channel switching time' of less than 1 ms;

b.5.c. Automatic searching or scanning of a part of the electromagnetic spectrum; *and*

b.5.d. Identification of the received signals or the type of transmitter; *or*

Note: 5A001.b.5 does not control radio equipment ''specially designed'' for use with civil cellular radio-communications systems.

Technical Note: 'Channel switching time': the time (i.e., delay) to change from one receiving frequency to another, to arrive at or within ±0.05% of the final specified receiving frequency. Items having a specified frequency range of less than ±0.05% around their centre frequency are defined to be incapable of channel frequency switching.

b.6. Employing functions of digital ''signal processing'' to provide 'voice coding' output at rates of less than 2,400 bit/s.

Technical Notes: 1. For variable rate 'voice coding', 5A001.b.6 applies to the 'voice coding' output of continuous speech.

2. For the purpose of 5A001.b.6, 'voice coding' is defined as the technique to take samples of human voice and then convert these samples of human voice into a digital signal taking into account specific characteristics of human speech.

c. Optical fibers of more than 500 m in length and specified by the manufacturer as being capable of withstanding a 'proof test' tensile stress of 2×10^9 N/m^2 or more;

N.B.: For underwater umbilical cables, see 8A002.a.3.

Technical Note: 'Proof Test': on-line or off-line production screen testing that dynamically applies a prescribed tensile stress over a 0.5 to 3 m length of fiber at a running rate of 2 to 5 m/s while passing between capstans approximately 150 mm in diameter. The ambient temperature is a nominal 293 K (20 °C) and relative humidity 40%. Equivalent national standards may be used for executing the proof test.

d. ''Electronically steerable phased array antennas'' as follows:

d.1. Rated for operation above 31.8 GHz, but not exceeding 57 GHz, and having an Effective Radiated Power (ERP) equal to or greater than +20 dBm (22.15 dBm Effective Isotropic Radiated Power (EIRP));

d.2. Rated for operation above 57 GHz, but not exceeding 66 GHz, and having an ERP equal to or greater than +24 dBm (26.15 dBm EIRP);

d.3. Rated for operation above 66 GHz, but not exceeding 90 GHz, and having an ERP equal to or greater than +20 dBm (22.15 dBm EIRP);

d.4. Rated for operation above 90 GHz;

Note: 5A001.d does not control ''electronically steerable phased array antennas'' for landing systems with instruments meeting ICAO standards covering Microwave Landing Systems (MLS).

e. Radio direction finding equipment operating at frequencies above 30 MHz and having all of the following, and ''specially designed'' ''components'' therefor:

e.1. ''Instantaneous bandwidth'' of 10 MHz or more; and

e.2. Capable of finding a Line Of Bearing (LOB) to non-cooperating radio transmitters with a signal duration of less than 1 ms;

f. Mobile telecommunications interception or jamming equipment, and monitoring equipment therefor, as follows, and ''specially designed'' ''components'' therefor:

f.1. Interception equipment designed for the extraction of voice or data, transmitted over the air interface;

f.2. Interception equipment not specified in 5A001.f.1, designed for the extraction of client device or subscriber identifiers (e.g., IMSI, TIMSI or IMEI), signaling, or other metadata transmitted over the air interface;

f.3. Jamming equipment ''specially designed'' or modified to intentionally and selectively interfere with, deny, inhibit, degrade or seduce mobile telecommunication services and performing any of the following:

f.3.a. Simulate the functions of Radio Access Network (RAN) equipment;

f.3.b. Detect and exploit specific characteristics of the mobile telecommunications protocol employed (e.g., GSM); *or*

f.3.c. Exploit specific characteristics of the mobile telecommunications protocol employed (e.g., GSM);

f.4. Radio Frequency (RF) monitoring equipment designed or modified to identify the operation of items specified in 5A001.f.1, 5A001.f.2 or 5A001.f.3.

Note: 5A001.f.1 and 5A001.f.2 do not apply to any of the following:

a. Equipment ''specially designed'' for the interception of analog Private Mobile Radio (PMR), IEEE 802.11 WLAN;

b. Equipment designed for mobile telecommunications network operators; or

c. Equipment designed for the ''development'' or ''production'' of mobile telecommunications equipment or systems.

N.B. 1: See also the International Traffic in Arms Regulations (ITAR) (22 CFR Parts 120–130). For items specified by 5A001.f.1 (including as previously specified by 5A001.i), see also 5A980 and the U.S. Munitions List (22 CFR part 121).

N.B. 2: For radio receivers see 5A001.b.5.

g. Passive Coherent Location (PCL) systems or equipment, ''specially designed'' for detecting and tracking moving objects by measuring reflections of ambient radio frequency emissions, supplied by non-radar transmitters.

Technical Note: Non-radar transmitters may include commercial radio, television or cellular telecommunications base stations.

Note: 5A001.g does not control:

a. Radio-astronomical equipment; or

b. Systems or equipment, that require any radio transmission from the target.

h. Counter Improvised Explosive Device (IED) equipment and related equipment, as follows:

h.1. Radio Frequency (RF) transmitting equipment, not specified by 5A001.f, designed or modified for prematurely activating or preventing the initiation of Improvised Explosive Devices (IEDs);

h.2. Equipment using techniques designed to enable radio communications in the same frequency channels on which co-located equipment specified by 5A001.h.1 is transmitting.

N.B.: See also Category XI of the International Traffic in Arms Regulations (ITAR) (22 CFR Parts 120–130).

i. [Reserved]

N.B.: See 5A001.f.1 for items previously specified by 5A001.i.

5A101 Telemetering and telecontrol equipment, including ground equipment, designed or modified for unmanned aerial vehicles or rocket systems (including ballistic missile systems, space launch vehicles, sounding rockets, cruise missile systems, target drones, and reconnaissance drones) capable of a maximum "range" equal to or greater than 300km.

LICENSE REQUIREMENTS

Reason for Control: MT, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
MT applies to entire entry	MT Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading.

Note: 5A101 does not control:

1. Telecontrol equipment ''specially designed'' to be used for remote control of recreational model planes, boats or vehicles and having an electric field strength of not more than 200 microvolts per meter at a distance of 500 meters;

2. Equipment designed or modified for manned aircraft or satellites;

3. Ground based equipment designed or modified for terrestrial or marine applications;

4. Equipment designed for commercial, civil, or safety of life (e.g., data integrity or flight safety) Global Navigation Satellite System services.

Note: 5A101 does not include items not designed or modified for unmanned aerial vehicles or rocket systems (including ballistic missile systems, space launch vehicles, sounding rockets, cruise missile systems, target drones, and reconnaissance drones) capable of a maximum ''range'' equal to or greater than 300 km (e.g., telemetry circuit cards limited by design to reception only and designed for use in personal computers).

5A611 Telecommunications equipment, and "parts," "components," "accessories," and "attachments" "specially designed" therefor, "specially designed" for a military application that are not enumerated in any USML category are controlled by ECCN 3A611.

5A980 Devices primarily useful for the surreptitious interception of wire, oral, or electronic communications, other than those controlled under 5A001.f.1; and "parts," "components" and "accessories" therefor.

LICENSE REQUIREMENTS

Reason for Control: SL, AT

Control(s): SL and AT apply to entire entry. A license is required for all destinations, as specified in §742.13 of the EAR. Accordingly, a column specific to this control does not appear on the Commerce Country Chart (Supplement No. 1 to Part 738 of the EAR).

Note: This licensing requirement does not supersede, nor does it implement, construe or limit the scope of any criminal statute, including, but not limited to the Omnibus Safe Streets Act of 1968, as amended.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Unit: $ value.

Related Controls: (1) See ECCN 5A001.f.1 for systems or equipment, ''specially designed'' or modified to intercept and process the air interface of 'mobile telecommunications', and ''specially designed'' components therefor. (2) See ECCN 5D980 for ''software'' for the ''development'', ''production'' or ''use'' of equipment controlled by 5A980. (3) See ECCN 5E980 for the ''technology'' for the ''development'', ''production'', and ''use'' of equipment controlled by 5A980.

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading.

5A991 Telecommunication equipment, not controlled by 5A001 (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
AT applies to entire entry	AT Column 1.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: See also 5E101 and 5E991.

Related Definitions: (1) ''Asynchronous transfer mode'' (''ATM'') is a transfer mode in which the information is organized into cells; it is asynchronous in the sense that the recurrence of cells depends on the required or instantaneous bit rate. (2) ''Bandwidth of one voice channel'' is data communication equipment designed to operate in one voice channel of 3,100 Hz, as defined in CCITT Recommendation G.151. (3) ''Communications channel controller'' is the physical interface that controls the

flow of synchronous or asynchronous digital information. It is an assembly that can be integrated into computer or telecommunications equipment to provide communications access. (4) ''Datagram'' is a self-contained, independent entity of data carrying sufficient information to be routed from the source to the destination data terminal equipment without reliance on earlier exchanges between this source and destination data terminal equipment and the transporting network. (5) ''Fast select'' is a facility applicable to virtual calls that allows data terminal equipment to expand the possibility to transmit data in call set-up and clearing ''packets'' beyond the basic capabilities of a virtual call. (6) ''Gateway'' is the function, realized by any combination of equipment and ''software'', to carry out the conversion of conventions for representing, processing or communicating information used on one system into the corresponding, but different conventions used in another system. (7) ''Integrated Services Digital Network'' (ISDN) is a unified end-to-end digital network, in which data originating from all types of communication (*e.g.*, voice, text, data, still and moving pictures) are transmitted from one port (terminal) in the exchange (switch) over one access line to and from the subscriber. (8) ''Packet'' is a group of binary digits including data and call control signals that is switched as a composite whole. The data, call control signals, and possible error control information are arranged in a specified format.

Items: a. Any type of telecommunications equipment, not controlled by 5A001.a, ''specially designed'' to operate outside the temperature range from 219 K (−54 °C) to 397 K (124 °C).

b. Telecommunication transmission equipment and systems, and ''specially designed'' ''parts,'' ''components'' and ''accessories'' therefor, having any of the following characteristics, functions or features:

Note: Telecommunication transmission equipment:

a. Categorized as follows, or combinations thereof:

1. Radio equipment (e.g., transmitters, receivers and transceivers);

2. Line terminating equipment;

3. Intermediate amplifier equipment;

4. Repeater equipment;

5. Regenerator equipment;

6. Translation encoders (transcoders);

7. Multiplex equipment (statistical mutiplex included);

8. Modulators/demodulators (modems);

9. Transmultiplex equipment (see CCITT Rec. G701);

10. ''Stored program controlled'' digital crossconnection equipment;

11. ''Gateways'' and bridges;

12. ''Media access units''; and

b. Designed for use in single or multi-channel communication via any of the following:

1. Wire (line);

2. Coaxial cable;

3. Optical fiber cable;

4. Electromagnetic radiation; or

5. Underwater acoustic wave propagation.

b.1. Employing digital techniques, including digital processing of analog signals, and designed to operate at a ''digital transfer rate'' at the highest multiplex level exceeding 45 Mbit/s or a ''total digital transfer rate'' exceeding 90 Mbit/s;

Note: 5A991.b.1 does not control equipment ''specially designed'' to be integrated and operated in any satellite system for civil use.

b.2. Modems using the ''bandwidth of one voice channel'' with a ''data signaling rate'' exceeding 9,600 bits per second;

b.3. Being ''stored program controlled'' digital cross connect equipment with ''digital transfer rate'' exceeding 8.5 Mbit/s per port.

b.4. Being equipment containing any of the following:

b.4.a. ''Network access controllers'' and their related common medium having a ''digital transfer rate'' exceeding 33 Mbit/s; *or*

b.4.b. ''Communication channel controllers'' with a digital output having a ''data signaling rate'' exceeding 64,000 bit/s per channel;

Note: If any uncontrolled equipment contains a ''network access controller'', it cannot have any type of telecommunications interface, except those described in, but not controlled by 5A991.b.4.

b.5. Employing a ''laser'' and having any of the following characteristics:

b.5.a. A transmission wavelength exceeding 1,000 nm; *or*

b.5.b. Employing analog techniques and having a bandwidth exceeding 45 MHz;

Note: 5A991.b.5.b does not control commercial TV systems.

b.5.c. Employing coherent optical transmission or coherent optical detection techniques (also called optical heterodyne or homodyne techniques);

b.5.d. Employing wavelength division multiplexing techniques; *or*

b.5.e. Performing ''optical amplification'';

b.6. Radio equipment operating at input or output frequencies exceeding:

b.6.a. 31 GHz for satellite-earth station applications; *or*

b.6.b. 26.5 GHz for other applications;

Note: 5A991.b.6. does not control equipment for civil use when conforming with an International Telecommunications Union (ITU) allocated band between 26.5 GHz and 31 GHz.

b.7. Being radio equipment employing any of the following:

b.7.a. Quadrature-amplitude-modulation (QAM) techniques above level 4 if the ''total digital transfer rate'' exceeds 8.5 Mbit/s;

b.7.b. QAM techniques above level 16 if the ''total digital transfer rate'' is equal to or less than 8.5 Mbit/s;

b.7.c. Other digital modulation techniques and having a ''spectral efficiency'' exceeding 3 bit/s/Hz; or

b.7.d. Operating in the 1.5 MHz to 87.5 MHz band and incorporating adaptive techniques providing more than 15 dB suppression of an interfering signal.

Notes: 1. 5A991.b.7 does not control equipment ''specially designed'' to be integrated and operated in any satellite system for civil use.

2. 5A991.b.7 does not control radio relay equipment for operation in an ITU allocated band:

a. Having any of the following:

a.1. Not exceeding 960 MHz; or

a.2. With a ''total digital transfer rate'' not exceeding 8.5 Mbit/s; and

b. Having a ''spectral efficiency'' not exceeding 4 bit/s/Hz.

c. ''Stored program controlled'' switching equipment and related signaling systems, having any of the following characteristics, functions or features, and ''specially designed'' ''parts,'' ''components'' and ''accessories'' therefor:

Note: Statistical multiplexers with digital input and digital output which provide switching are treated as ''stored program controlled'' switches.

c.1. ''Data (message) switching'' equipment or systems designed for ''packet-mode operation'' and ''parts,'' electronic assemblies and ''components'' therefor, n.e.s.

c.2. [Reserved]

c.3. Routing or switching of ''datagram'' packets;

c.4. [Reserved]

Note: The restrictions in 5A991.c.3 do not apply to networks restricted to using only ''network access controllers'' or to ''network access controllers'' themselves.

c.5. Multi-level priority and pre-emption for circuit switching;

Note: 5A991.c.5 does not control single-level call preemption.

c.6. Designed for automatic hand-off of cellular radio calls to other cellular switches or automatic connection to a centralized subscriber data base common to more than one switch;

c.7. Containing ''stored program controlled'' digital cross connect equipment with ''digital transfer rate'' exceeding 8.5 Mbit/s per port.

c.8. ''Common channel signaling'' operating in either non-associated or quasi-associated mode of operation;

c.9. ''Dynamic adaptive routing'';

c.10. Being packet switches, circuit switches and routers with ports or lines exceeding any of the following:

c.10.a. A ''data signaling rate'' of 64,000 bit/s per channel for a ''communications channel controller''; *or*

Note: 5A991.c.10.a does not control multiplex composite links composed only of communication channels not individually controlled by 5A991.b.1.

c.10.b. A ''digital transfer rate'' of 33 Mbit/s for a ''network access controller'' and related common media;

Note: 5A991.c.10 does not control packet switches or routers with ports or lines not exceeding the limits in 5A991.c.10.

c.11. ''Optical switching'';

c.12. Employing ''Asynchronous Transfer Mode'' (''ATM'') techniques.

d. Optical fibers and optical fiber cables of more than 50 m in length designed for single mode operation;

e. Centralized network control having all of the following characteristics:

e.1. Receives data from the nodes; *and*

e.2. Process these data in order to provide control of traffic not requiring operator decisions, and thereby performing ''dynamic adaptive routing'';

Note: 5A991.e does not preclude control of traffic as a function of predictable statistical traffic conditions.

f. Phased array antennas, operating above 10.5 GHz, containing active elements and distributed ''parts'' or ''components,'' and designed to permit electronic control of beam shaping and pointing, except for landing systems with instruments meeting International Civil Aviation Organization (ICAO) standards (microwave landing systems (MLS)).

g. Mobile communications equipment, n.e.s., and ''parts,'' electronic assemblies and ''components'' therefor; *or*

h. Radio relay communications equipment designed for use at frequencies equal to or exceeding 19.7 GHz and ''parts'' and ''components'' therefor, n.e.s.

B. ''TEST'', ''INSPECTION'' AND ''PRODUCTION EQUIPMENT''

5B001 Telecommunication test, inspection and production equipment, "components" and "accessories," as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 2
AT applies to entire entry	AT Column 1

REPORTING REQUIREMENTS See §743.1 of the EAR for reporting requirements for exports under License Exceptions, and Validated End-User authorizations

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: $5000

GBS: Yes

CIV: Yes

SPECIAL CONDITIONS FOR STA

STA: License Exception STA may not be used to ship 5B001.a equipment and ''specially designed'' ''components'' or ''accessories'' therefor, ''specially designed'' for the ''development,'' or ''production'' of equipment, functions or features specified by in ECCN 5A001.b.3, .b.5 or .h to any of the destinations listed in Country Group A:6 (See Supplement No. 1 to part 740 of the EAR).

LIST OF ITEMS CONTROLLED

Related Controls: See also 5B991.

Related Definition: N/A

Items: a. Equipment and ''specially designed'' ''components'' or ''accessories'' therefor, ''specially designed'' for the ''development,'' or ''production'' of equipment, functions or features, controlled by 5A001.

Note: 5B001.a does not apply to optical fiber characterization equipment.

b. Equipment and ''specially designed'' ''components'' or ''accessories'' therefor, ''specially designed'' for the ''development'' of any of the following telecommunication transmission or switching equipment:

b.1. [Reserved]

b.2. Equipment employing a ''laser'' and having any of the following:

b.2.a. A transmission wavelength exceeding 1750 nm;

b.2.b. [Reserved]

b.2.c. Employing coherent optical transmission or coherent optical detection techniques; *or*

Note: 5B001.b.2.c applies to equipment ''specially designed'' for the ''development'' of systems using an optical local oscillator in the receiving side to synchronize with a carrier ''laser.''

Technical Note: For the purpose of 5B001.b.2.c, these techniques include optical heterodyne, homodyne or intradyne techniques.

b.2.d. Employing analog techniques and having a bandwidth exceeding 2.5 GHz; or

Note: 5B001.b.2.d. does not include equipment ''specially designed'' for the ''development'' of commercial TV systems.

b.3. [Reserved]

b.4. Radio equipment employing Quadrature-Amplitude-Modulation (QAM) techniques above level 1,024.

5B991 Telecommunications test equipment, n.e.s.

LICENSE REQUIREMENTS

Reason for Control: AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
AT applies to entire entry	AT Column 1.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading.

C. ''MATERIALS''

5C991 Preforms of glass or of any other material optimized for the manufacture of optical fibers controlled by 5A991.

LICENSE REQUIREMENTS

Reason for Control: AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading.

D. ''SOFTWARE''

5D001 "Software" as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, SL, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 1.
SL applies to the entire entry as applicable for equipment, functions, features, or characteristics controlled by 5A001.f.1.	A license is required for all destinations, as specified in § 742.13 of the EAR. Accordingly, a column specific to this control does not appear on the Commerce Country Chart (Supplement No. 1 to Part 738 of the EAR). **Note to SL paragraph:** This licensing requirement does not supersede, nor does it implement, construe or limit the scope of any criminal statute, including, but not limited to the Omnibus Safe Streets Act of 1968, as amended.
AT applies to entire entry	AT Column 1.

REPORTING REQUIREMENTS See § 743.1 of the EAR for reporting requirements for exports under License Exceptions, and Validated End-User authorizations

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: Yes, except for ''software'' controlled by 5D001.a and ''specially designed'' for the ''development'' or ''production'' of items controlled by 5A001.b.5 and 5A001.h.

TSR: Yes, except for exports and reexports to destinations outside of those countries listed in Country Group A:5 (See Supplement No. 1 to part 740 of the EAR) of ''software'' controlled by 5D001.a and ''specially designed'' for items controlled by 5A001.b.5 and 5A001.h.

SPECIAL CONDITIONS FOR STA

STA: License Exception STA may not be used to ship or transmit 5D001.a ''software'' ''specially designed'' for the ''development'' or ''production'' of equipment, functions or features, specified by ECCN 5A001.b.3, .b.5 or .h; and for 5D001.b. for ''software'' ''specially designed'' or modified to support ''technology'' specified by the STA paragraph in the License Exception section of ECCN 5E001 to any of the destinations listed in Country Group A:6 (See Supplement No. 1 to part 740 of the EAR).

LIST OF ITEMS CONTROLLED

Related Controls: See also 5D980 and 5D991

Related Definitions: N/A

Items: a. ''Software'' ''specially designed'' or modified for the ''development'', ''production'' or ''use'' of equipment, functions or features, controlled by 5A001;

b. [Reserved]

c. Specific ''software'' ''specially designed'' or modified to provide characteristics, functions or features of equipment, controlled by 5A001 or 5B001;

d. ''Software'' ''specially designed'' or modified for the ''development'' of any of the following telecommunication transmission or switching equipment:

d.1. [Reserved]

d.2. Equipment employing a ''laser'' and having any of the following:

d.2.a. A transmission wavelength exceeding 1,750 nm; *or*

d.2.b. Employing analog techniques and having a bandwidth exceeding 2.5 GHz; or

Note: 5D001.d.2.b does not control ''software'' ''specially designed'' or modified for the ''development'' of commercial TV systems.

d.3. [Reserved]

d.4. Radio equipment employing Quadrature-Amplitude-Modulation (QAM) techniques above level 1,024.

5D101 "Software" "specially designed" or modified for the "use" of equipment controlled by 5A101.

LICENSE REQUIREMENTS

Reason for Control: MT, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
MT applies to entire entry	MT Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading.

5D980 Other "software", other than that controlled by 5D001 (for the equipment, functions, features, or characteristics controlled by 5A001. f.1, or to support certain "technology" controlled by 5E001.a), as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: SL, AT

Controls: SL and AT apply to entire entry. A license is required for all destinations, as specified in §742.13 of the EAR. Accordingly, a column specific to this control does not appear on the Commerce Country Chart (Supplement No. 1 to Part 738 of the EAR).

Note: This licensing requirement does not supersede, nor does it implement, construe or limit the scope of any criminal statute, including, but not limited to the Omnibus Safe Streets Act of 1968, as amended.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

LIST OF ITEMS CONTROLLED

Related Controls: See also 5D001.a and .c for software controls for equipment, functions, features or characteristics controlled by 5A001.f.1 and also 5D001.b for controls on ''software'' ''specially designed'' or modified to support ''technology'' controlled by 5E001.a (for 5A001.f.1 equipment, functions or features, and for 5D001.a ''software'' for 5A001.f.1 equipment). See 5E980 for ''technology'' for the ''development'', ''production'', and ''use'' of equipment controlled by 5A980 or ''software'' controlled by 5D980.

Related Definitions: N/A

Items: a. ''Software'' primarily useful for the surreptitious interception of wire, oral, and electronic communications.

b. ''Software'' primarily useful for the ''development'', ''production'', or ''use'' of equipment controlled by 5A980.

5D991 "Software" "specially designed" or modified for the "development," "production" or "use" of equipment controlled by 5A991 and 5B991, and dynamic adaptive routing software as described as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
CIV: N/A
TSR: N/A
LIST OF ITEMS CONTROLLED
Related Controls: N/A
Related Definitions: N/A
Items: a. ''Software'', other than in machine-executable form, ''specially designed'' for ''dynamic adaptive routing''.
b. [Reserved]

E. ''TECHNOLOGY''

5E001 "Technology" as follows (see List of Items Controlled).
LICENSE REQUIREMENTS
Reason for Control: NS, SL, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 1.
SL applies to "technology" for the "development" or "production" of equipment, functions or features controlled by 5A001.f.1, or for the "development" or "production" of "software" controlled by ECCN 5D001.a (for 5A001.f.1).	A license is required for all destinations, as specified in §742.13 of the EAR. Accordingly, a column specific to this control does not appear on the Commerce Country Chart (Supplement No. 1 to Part 738 of the EAR). **Note to SL paragraph:** *This licensing requirement does not supersede, nor does it implement, construe or limit the scope of any criminal statute, including, but not limited to the Omnibus Safe Streets Act of 1968, as amended.*
AT applies to entire entry	AT Column 1.

REPORTING REQUIREMENTS See §743.1 of the EAR for reporting requirements for exports under License Exceptions, and Validated End-User authorizations
LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
*CIV:*N/A
TSR: Yes, except for exports and reexports to destinations outside of those countries listed in Country Group A:5 (See Supplement No. 1 to part 740 of the EAR) of ''technology'' controlled by 5E001.a for the ''development'' or ''production'' of the following:
(1) Items controlled by 5A001.b.5 or 5A001.h; or
(2) ''Software'' controlled by 5D001.a that is ''specially designed'' for the ''development'' or ''production'' of equipment, functions or features controlled by 5A001.b.5 or 5A001.h.
SPECIAL CONDITIONS FOR STA
STA: License Exception STA may not be used to ship or transmit ''technology'' according to the General Technology Note for the ''development'' or ''production'' of equipment, functions or features specified by 5A001.b.3, .b.5 or .h; or for ''software'' in 5D001.a that is specified in the STA paragraph in the License Exception section of ECCN 5D001 to any of the destinations listed in Country Group A:6 (See Supplement No. 1 to part 740 of the EAR).
LIST OF ITEMS CONTROLLED
Related Controls: (1) See also 5E101, 5E980 and 5E991. (2) ''Technology'' for ''development'' or ''production'' of Microwave ''Monolithic Integrated Circuits'' (MMIC) power amplifiers that meet the control criteria given at 3A001.b.2 is controlled in 3E001; 5E001.d refers only to that additional ''technology'' ''required'' for telecommunications.
Items: a. ''Technology'' according to the General Technology Note for the ''development'', ''production'' or ''use'' (excluding operation) of equipment, functions or features, controlled by 5A001 or ''software'' controlled by 5D001.a.
b. Specific ''technology'' as follows:
b.1. ''Required'' ''technology'' for the ''development'' or ''production'' of telecommunications equipment ''specially designed'' to be used on board satellites;
b.2. ''Technology'' for the ''development'' or ''use'' of ''laser'' communication techniques with the capability of automatically acquiring and tracking signals and maintaining communications through exoatmosphere or sub-surface (water) media;
b.3. ''Technology'' for the ''development'' of digital cellular radio base station receiving equipment whose reception capabilities that allow multi-band, multi-channel, multi-mode, multi-coding algorithm or multi-protocol operation can be modified by changes in ''software'';
b.4. ''Technology'' for the ''development'' of ''spread spectrum'' techniques, including ''frequency hopping'' techniques.
Note: 5E001.b.4 does not apply to ''technology'' for the ''development'' of any of the following:
a. Civil cellular radio-communications systems; or
b. Fixed or mobile satellite Earth stations for commercial civil telecommunications.
c. ''Technology'' according the General Technology Note for the ''development'' or ''production'' of any of the following:
c.1. Equipment employing digital techniques designed to operate at a ''total digital transfer rate'' exceeding 560 Gbit/s;
Technical Note: For telecommunication switching equipment the ''total digital transfer rate'' is the unidirectional speed of a single interface, measured at the highest speed port or line.

c.2. Equipment employing a ''laser'' and having any of the following:

c.2.a. A transmission wavelength exceeding 1,750 nm;

c.2.b. [Reserved]

c.2.c. Employing coherent optical transmission or coherent optical detection techniques;

Note: 5E001.c.2.c applies to ''technology'' for the ''development'' or ''production'' of systems using an optical local oscillator in the receiving side to synchronize with a carrier ''laser.''

Technical Note: For the purpose of 5E001.c.2.c, these techniques include optical heterodyne, homodyne or intradyne techniques.

c.2.d. Employing wavelength division multiplexing techniques of optical carriers at less than 100 GHz spacing; *or*

c.2.e. Employing analog techniques and having a bandwidth exceeding 2.5 GHz;

Note: 5E001.c.2.e. does not control ''technology'' for the ''development'' or ''production'' of commercial TV systems.

N.B.: For ''technology'' for the ''development'' or ''production'' of non-telecommunications equipment employing a ''laser'', see Product Group E of Category 6, e.g., 6E00x.

c.3. Equipment employing ''optical switching'' and having a switching time less than 1 ms; or

c.4. Radio equipment having any of the following:

c.4.a. Quadrature-Amplitude-Modulation (QAM) techniques above level 1,024; *or*

c.4.b. Operating at input or output frequencies exceeding 31.8 GHz; *or*

Note: 5E001.c.4.b. does not control ''technology'' for the ''development'' or ''production'' of equipment designed or modified for operation in any frequency band which is ''allocated by the ITU'' for radio-communications services, but not for radio-determination.

c.4.c. Operating in the 1.5 MHz to 87.5 MHz band and incorporating adaptive techniques providing more than 15 dB suppression of an interfering signal; *or*

c.5. [Reserved]

c.6. Mobile equipment having all of the following:

c.6.a. Operating at an optical wavelength greater than or equal to 200 nm and less than or equal to 400 nm; *and*

c.6.b. Operating as a ''local area network'';

d. ''Technology'' according to the General Technology Note for the ''development'' or ''production'' of Microwave Monolithic Integrated Circuit (MMIC) power amplifiers ''specially designed'' for telecommunications and that are any of the following:

Technical Note: For purposes of 5E001.d, the parameter peak saturated power output may also be referred to on product data sheets as output power, saturated power output, maximum power output, peak power output, or peak envelope power output.

d.1. Rated for operation at frequencies exceeding 2.7 GHz up to and including 6.8 GHz with a ''fractional bandwidth'' greater than 15%, and having any of the following:

d.1.a. A peak saturated power output greater than 75 W (48.75 dBm) at any frequency exceeding 2.7 GHz up to and including 2.9 GHz;

d.1.b. A peak saturated power output greater than 55 W (47.4 dBm) at any frequency exceeding 2.9 GHz up to and including 3.2 GHz;

d.1.c. A peak saturated power output greater than 40 W (46 dBm) at any frequency exceeding 3.2 GHz up to and including 3.7 GHz; or

d.1.d. A peak saturated power output greater than 20 W (43 dBm) at any frequency exceeding 3.7 GHz up to and including 6.8 GHz;

d.2. Rated for operation at frequencies exceeding 6.8 GHz up to and including 16 GHz with a ''fractional bandwidth'' greater than 10%, and having any of the following:

d.2.a. A peak saturated power output greater than 10W (40 dBm) at any frequency exceeding 6.8 GHz up to and including 8.5 GHz; or

d.2.b. A peak saturated power output greater than 5W (37 dBm) at any frequency exceeding 8.5 GHz up to and including 16 GHz;

d.3. Rated for operation with a peak saturated power output greater than 3 W (34.77 dBm) at any frequency exceeding 16 GHz up to and including 31.8 GHz, and with a ''fractional bandwidth'' of greater than 10%;

d.4. Rated for operation with a peak saturated power output greater than 0.1n W (−70 dBm) at any frequency exceeding 31.8 GHz up to and including 37 GHz;

d.5. Rated for operation with a peak saturated power output greater than 1 W (30 dBm) at any frequency exceeding 37 GHz up to and including 43.5 GHz, and with a ''fractional bandwidth'' of greater than 10%;

d.6. Rated for operation with a peak saturated power output greater than 31.62 mW (15 dBm) at any frequency exceeding 43.5 GHz up to and including 75 GHz, and with a ''fractional bandwidth'' of greater than 10%;

d.7. Rated for operation with a peak saturated power output greater than 10 mW (10 dBm) at any frequency exceeding 75 GHz up to and including 90 GHz, and with a ''fractional bandwidth'' of greater than 5%; or

d.8. Rated for operation with a peak saturated power output greater than 0.1 nW (−70 dBm) at any frequency exceeding 90 GHz;

e. ''Technology'' according to the General Technology Note for the ''development'' or ''production'' of electronic devices and circuits, ''specially designed'' for telecommunications and containing ''components'' manufactured from ''superconductive'' materials, ''specially designed'' for operation at temperatures below the ''critical temperature'' of at least one of the ''superconductive'' constituents and having any of the following:

e.1. Current switching for digital circuits using ''superconductive'' gates with a product of delay time per gate (in seconds) and

power dissipation per gate (in watts) of less than 10^{-14} J; *or*

e.2. Frequency selection at all frequencies using resonant circuits with Q-values exceeding 10,000.

5E101 "Technology" according to the General Technology Note for the "development," "production" or "use" of equipment or software controlled by 5A101 or 5D101.

LICENSE REQUIREMENTS

Reason for Control: MT, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
MT applies to entire entry	MT Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading.

5E980 "Technology", other than that controlled by 5E001.a (for 5A001.f.1, and for 5D001.a (for 5A001.f.1)), primarily useful for the "development", "production", or "use" of equipment, functions or features, of equipment controlled by 5A980 or "software" controlled by 5D980.

LICENSE REQUIREMENTS

Reason for Control: SL, AT

Controls: SL and AT apply to entire entry. A license is required for all destinations, as specified in §742.13 of the EAR. Accordingly, a column specific to this control does not appear on the Commerce Country Chart (Supplement No. 1 to Part 738 of the EAR).

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

LIST OF ITEMS CONTROLLED

Related Controls: See also 5D001.a and .c (for 5A001.f.1 equipment), 5D001.b (supporting 5E001.a ''technology'' for 5A001.f.1 equipment, or for 5D001.a ''software'' (for 5A001.f.1equipment)), and 5E001.a (for 5A001.f.1 equipment, or for 5D001.a ''software'' for 5A001.f.1 equipment).

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading.

5E991 "Technology" for the "Development", "Production" or "Use" of Equipment Controlled by 5A991 or 5B991, or "Software" Controlled by 5D991, and Other "Technologies" as Follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: (1) ''Synchronous digital hierarchy'' (SDH) is a digital hierarchy providing a means to manage, multiplex, and access various forms of digital traffic using a synchronous transmission format on different types of media. The format is based on the Synchronous Transport Module (STM) that is defined by CCITT Recommendation G.703, G.707, G.708, G.709 and others yet to be published. The first level rate of 'SDH' is 155.52 Mbits/s. (2) 'Synchronous optical network' (SONET) is a network providing a means to manage, multiplex and access various forms of digital traffic using a synchronous transmission format on fiber optics. The format is the North America version of 'SDH' and also uses the Synchronous Transport Module (STM). However, it uses the Synchronous Transport Signal (STS) as the basic transport module with a first level rate of 51.81 Mbits/s. The SONET standards are being integrated into those of 'SDH'.

Items: a. Specific ''technologies'' as follows:

a.1. ''Technology'' for the processing and application of coatings to optical fiber ''specially designed'' to make it suitable for underwater use;

a.2. ''Technology'' for the ''development'' of equipment employing 'Synchronous Digital Hierarchy' ('SDH') or 'Synchronous Optical Network' ('SONET') techniques.

PART 2—''INFORMATION SECURITY''

Note 1: [Reserved]

Note 2: Category 5—Part 2, ''information security'' products, when accompanying their user for the user's personal use or as tools of trade, are eligible for License Exceptions TMP or BAG, subject to the terms and conditions of these license exceptions.

Note 3: Cryptography Note: ECCNs 5A002, 5A003, 5A004 and 5D002, do not control items as follows:

a. Items meeting all of the following:

1. Generally available to the public by being sold, without restriction, from stock at retail selling points by means of any of the following:

a. Over-the-counter transactions;

b. Mail order transactions;

c. Electronic transactions; or

d. Telephone call transactions;

2. The cryptographic functionality cannot be easily changed by the user;

3. Designed for installation by the user without further substantial support by the supplier; and

4. [Reserved]

5. When necessary, details of the items are accessible and will be provided, upon request, to the appropriate authority in the exporter's country in order to ascertain compliance with conditions described in paragraphs 1. through 3. of this Note a.;

b. Hardware components or 'executable software', of existing items described in paragraph a. of this Note, that have been designed for these existing items, and meeting all of the following:

1. ''Information security'' is not the primary function or set of functions of the component or 'executable software';

2. The component or 'executable software' does not change any cryptographic functionality of the existing items, or add new cryptographic functionality to the existing items;

3. The feature set of the component or 'executable software' is fixed and is not designed or modified to customer specification; and

4. When necessary, as determined by the appropriate authority in the exporter's country, details of the component or 'executable software', and details of relevant end-items are accessible and will be provided to the authority upon request, in order to ascertain compliance with conditions described above.

Technical Note: For the purpose of the Cryptography Note, 'executable software' means ''software'' in executable form, from an existing hardware component excluded from 5A002, 5A003 or 5A004 by the Cryptography Note.

Note: 'Executable software' does not include complete binary images of the ''software'' running on an end-item.

Note to the Cryptography Note: 1. To meet paragraph a. of Note 3, all of the following must apply:

a. The item is of potential interest to a wide range of individuals and businesses; and

b. The price and information about the main functionality of the item are available before purchase without the need to consult the vendor or supplier. A simple price inquiry is not considered to be a consultation.

2. In determining eligibility of paragraph a. of Note 3, BIS may take into account relevant factors such as quantity, price, required technical skill, existing sales channels, typical customers, typical use or any exclusionary practices of the supplier.

N.B. to Note 3 (Cryptography Note): You must submit a classification request or self-classification report to BIS for mass market encryption commodities and software eligible for the Cryptography Note employing a key length greater than 64 bits for the symmetric algorithm (or, for commodities and software not implementing any symmetric algorithms, employing a key length greater than 768 bits for asymmetric algorithms or greater than 128 bits for elliptic curve algorithms) in accordance with the requirements of § 740.17(b) of the EAR in order to be released from the ''EI'' and ''NS'' controls of ECCN 5A002 or 5D002.

Note 4: Category 5—Part 2 does not apply to items incorporating or using ''cryptography'' and meeting all of the following:

a. The primary function or set of functions is not any of the following:

1. ''Information security'';

2. A computer, including operating systems, parts and components therefor;

3. Sending, receiving or storing information (except in support of entertainment, mass commercial broadcasts, digital rights management or medical records management); or

4. Networking (includes operation, administration, management and provisioning);

b. The cryptographic functionality is limited to supporting their primary function or set of functions; and

c. When necessary, details of the items are accessible and will be provided, upon request, to the appropriate authority in the exporter's country in order to ascertain compliance with conditions described in paragraphs a. and b. above.

A. ''END ITEMS,'' ''EQUIPMENT,'' ''ACCESSORIES,'' ''ATTACHMENTS,'' ''PARTS,'' ''COMPONENTS,'' AND ''SYSTEMS''

I. CRYPTOGRAPHIC ''INFORMATION SECURITY''

5A002 "Information security" systems, equipment and "components," as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, AT, EI

Control(s)	Country chart (see Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 1
AT applies to entire entry	AT Column 1
EI applies to entire entry	Refer to § 742.15 of the EAR

License Requirements Note: See § 744.17 of the EAR for additional license requirements for microprocessors having a processing speed of 5 GFLOPS or more and an arithmetic logic unit with an access width of 32 bit or more, including those incorporating ''information security'' functionality, and associated ''software'' and ''technology'' for the ''production'' or ''development'' of such microprocessors.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: Yes: $500 for ''components''. N/A for systems and equipment.

GBS: N/A

CIV: N/A

ENC: Yes for certain EI controlled commodities, see § 740.17 of the EAR for eligibility.

LIST OF ITEMS CONTROLLED

Related Controls: (1) ECCN 5A002.a controls ''components'' providing the means or functions necessary for ''information security.'' All such ''components'' are presumptively ''specially designed'' and controlled by 5A002.a. (2) See USML Categories XI (including XI(b)) and XIII(b) (including XIII(b)(2)) for controls on systems, equipment, and components described in 5A002.d or .e that are subject to the ITAR. (3) After classification or self-classification in accordance with §740.17(b) of the EAR, mass market encryption commodities that meet eligibility requirements are released from ''EI'' and ''NS'' controls. These commodities are designated 5A992.c.

Related Definitions: N/A

Items:

a. Systems, equipment and components, for cryptographic ''information security,'' as follows:

N.B.: For the control of Global Navigation Satellite Systems (GNSS) receiving equipment containing or employing decryption, see ECCN 7A005, and for related decryption ''software'' and ''technology'' see 7D005 and 7E001.

a.1. Designed or modified to use ''cryptography'' employing digital techniques performing any cryptographic function other than authentication, digital signature, or execution of copy-protected ''software,'' and having any of the following:

Technical Notes: 1. Functions for authentication, digital signature and the execution of copy-protected ''software'' include their associated key management function.

2. Authentication includes all aspects of access control where there is no encryption of files or text except as directly related to the protection of passwords, Personal Identification Numbers (PINs) or similar data to prevent unauthorized access.

a.1.a. A ''symmetric algorithm'' employing a key length in excess of 56-bits; *or*

Technical Note: In Category 5—Part 2, parity bits are not included in the key length.

a.1.b. An ''asymmetric algorithm'' where the security of the algorithm is based on any of the following:

a.1.b.1. Factorization of integers in excess of 512 bits (*e.g.*, RSA);

a.1.b.2. Computation of discrete logarithms in a multiplicative group of a finite field of size greater than 512 bits (*e.g.*, Diffie-Hellman over Z/pZ); or

a.1.b.3. Discrete logarithms in a group other than mentioned in 5A002.a.1.b.2 in excess of 112 bits (*e.g.*, Diffie-Hellman over an elliptic curve);

a.2. [Reserved]

N.B.: See 5A004.a for items formerly specified in 5A002.a.2.

Note: 5A002.a does not control any of the following:

(a) Smart cards and smart card 'readers/writers' as follows:

(1) A smart card or an electronically readable personal document (e.g., token coin, e-passport) that meets any of the following:

a. The cryptographic capability is restricted for use in equipment or systems, excluded from 5A002, 5A003 or 5A004 by Note 4 in Category 5—Part 2 or entries (b) to (i) of this Note, and cannot be reprogrammed for any other use; or

b. Having all of the following:

1. It is specially designed and limited to allow protection of 'personal data' stored within;

2. Has been, or can only be, personalized for public or commercial transactions or individual identification; and

3. Where the cryptographic capability is not user-accessible;

Technical Note: 'Personal data' includes any data specific to a particular person or entity, such as the amount of money stored and data necessary for authentication.

(2). 'Readers/writers' specially designed or modified, and limited, for items specified by (a)(1) of this Note;

Technical Note: 'Readers/writers' include equipment that communicates with smart cards or electronically readable documents through a network.

(b) Cryptographic equipment specially designed and limited for banking use or 'money transactions';

Technical Note: 'Money transactions' in 5A002 Note (b) includes the collection and settlement of fares or credit functions.

(c) Portable or mobile radiotelephones for civil use (e.g., for use with commercial civil cellular radio communication systems) that are not capable of transmitting encrypted data directly to another radiotelephone or equipment (other than Radio Access Network (RAN) equipment), nor of passing encrypted data through RAN equipment (e.g., Radio Network Controller (RNC) or Base Station Controller (BSC));

(d) Cordless telephone equipment not capable of end-to-end encryption where the maximum effective range of unboosted cordless operation (i.e., a single, unrelayed hop between terminal and home base station) is less than 400 meters according to the manufacturer's specifications;

(e) Portable or mobile radiotelephones and similar client wireless devices for civil use, that implement only published or commercial cryptographic standards (except for anti-piracy functions, which may be non-published) and also meet the provisions of paragraphs a.2. to a.5. of the Cryptography Note (Note 3 in Category 5—Part 2), that have been customized for a specific civil industry application with features that do not affect the cryptographic functionality of these original non-customized devices;

(f) Wireless ''personal area network'' equipment that implement only published or commercial cryptographic standards and where the cryptographic capability is limited to a nominal operating range not exceeding 30 meters according to the manufacturer's specifications, or not

exceeding 100 meters according to the manufacturer's specifications for equipment that cannot interconnect with more than seven devices;

(g) Equipment meeting all of the following:

1. All cryptographic capability specified by 5A002.a meets any of the following:

a. It cannot be used; or

b. It can only be made useable by means of ''cryptographic activation;'' and

2. When necessary as determined by the appropriate authority in the exporter's country, details of the equipment are accessible and will be provided to the authority upon request, in order to ascertain compliance with conditions described above;

N.B.1: See 5A002.a for equipment that has undergone ''cryptographic activation.''

N.B.2: See also 5A002.b, 5D002.d and 5E002.b.

(h) Mobile telecommunications Radio Access Network (RAN) equipment designed for civil use, which also meet the provisions 2. to 5. of part a. of the Cryptography Note (Note 3 in Category 5—Part 2), having an RF output power limited to 0.1W (20 dBm) or less, and supporting 16 or fewer concurrent users;

(i) Routers, switches or relays, where the ''information security'' functionality is limited to the tasks of ''Operations, Administration or Maintenance'' (''OAM'') implementing only published or commercial cryptographic standards; or

(j) General purpose computing equipment or servers, where the ''information security'' functionality meets all of the following:

1. Uses only published or commercial cryptographic standards; and

2. Is any of the following:

a. Integral to a CPU that meets the provisions of Note 3 in Category 5—Part 2;

b. Integral to an operating system that is not specified by 5D002; or

c. Limited to ''OAM'' of the equipment.

b. Designed or modified to enable, by means of ''cryptographic activation,'' an item to achieve or exceed the controlled performance levels for functionality specified by 5A002.a that would not otherwise be enabled;

c. Designed or modified to use or perform ''quantum cryptography;''

Technical Note: ''Quantum cryptography'' is also known as Quantum Key Distribution (QKD).

d. Designed or modified to use cryptographic techniques to generate channelizing codes, scrambling codes or network identification codes, for systems using ultra-wideband modulation techniques and having any of the following:

d.1. A bandwidth exceeding 500 MHz; *or*

d.2. A ''fractional bandwidth'' of 20% or more;

e. Designed or modified to use cryptographic techniques to generate the spreading code for ''spread spectrum'' systems, not controlled in 5A002.d., including the hopping code for ''frequency hopping'' systems.

5A992 Equipment not controlled by 5A002 (see List of Items Controlled).

LICENSE REQUIREMENTS

Control(s)	Country Chart (See Supp. No. 1 to part 738)
AT applies to entire entry	AT Column 1.

License Requirements Note: See § 744.17 of the EAR for additional license requirements for microprocessors having a processing speed of 5 GFLOPS or more and an arithmetic logic unit with an access width of 32 bit or more, including those incorporating ''information security'' functionality, and associated ''software'' and ''technology'' for the ''production'' or ''development'' of such microprocessors.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: a. to b. [Reserved]

c. Commodities classified as mass market encryption commodities in accordance with § 740.17(b) of the EAR.

II. NON-CRYPTOGRAPHIC ''INFORMATION SECURITY''

5A003 "Systems," "equipment" and "components," for non-cryptographic "information security," as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, AT

Control(s)	Country chart (see supp. no. 1 to part 738)
NS applies to entire entry	NS Column 2
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: Yes: $500 for ''components.'' N/A for systems and equipment.

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items:

a. Communications cable systems designed or modified using mechanical, electrical or electronic means to detect surreptitious intrusion;

NOTE: 5A003.a applies only to physical layer security.

b. ''Specially designed'' or modified to reduce the compromising emanations of information-bearing signals beyond what is necessary for health, safety or electromagnetic interference standards.

III. DEFEATING, WEAKENING, OR BYPASSING ''INFORMATION SECURITY''

5A004 "Systems," "equipment" and "components" for defeating, weakening or bypassing "information security," as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, AT, EI

Control(s)	Country chart (see supp. no. 1 to part 738)
NS applies to entire entry	NS Column 1
AT applies to entire entry	AT Column 1
EI applies to entire entry	Refer to §742.15 of the EAR

License Requirements Note: See §744.17 of the EAR for additional license requirements for microprocessors having a processing speed of 5 GFLOPS or more and an arithmetic logic unit with an access width of 32 bit or more, including those incorporating ''information security'' functionality, and associated ''software'' and ''technology'' for the ''production'' or ''development'' of such microprocessors.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: Yes: $500 for ''components.'' N/A for systems and equipment.

GBS: N/A

CIV: N/A

ENC: Yes for certain EI controlled commodities, see §740.17 of the EAR for eligibility.

LIST OF ITEMS CONTROLLED

Related Controls: ECCN 5A004.a controls ''components'' providing the means or functions necessary for ''information security.'' All such ''components'' are presumptively ''specially designed'' and controlled by 5A004.a.

Related Definitions: N/A

Items:

a. Designed or modified to perform 'cryptanalytic functions.'

Note: 5A004.a includes systems or equipment, designed or modified to perform 'cryptanalytic functions' by means of reverse engineering.

Technical Note: 'Cryptanalytic functions' are functions designed to defeat cryptographic mechanisms in order to derive confidential variables or sensitive data, including clear text, passwords or cryptographic keys.

b. [Reserved]

B. TEST, INSPECTION AND ''PRODUCTION EQUIPMENT''

5B002 "Information Security" test, inspection and "production" equipment, as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

ENC: Yes for certain EI controlled equipment, see §740.17 of the EAR for eligibility.

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items:

a. Equipment ''specially designed'' for the ''development'' or ''production'' of equipment controlled by 5A002, 5A003, 5A004 or 5B002.b;

b. Measuring equipment ''specially designed'' to evaluate and validate the ''information security'' functions of equipment controlled by 5A002, 5A003 or 5A004, or of ''software'' controlled by 5D002.a or 5D002.c.

C. ''MATERIALS'' [RESERVED]

D. ''SOFTWARE''

5D002 "Software" as follows (see List of Items Controlled)

LICENSE REQUIREMENTS

Reason for Control: NS, AT, EI

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 1.
AT applies to entire entry	AT Column 1.
EI applies to "software" in 5D002.a, c.1 and .d, for commodities or "software" controlled for EI reasons in ECCNs 5A002, 5A004 or 5D002.	See §742.15 of the EAR *Note: Encryption software is controlled because of its functional capacity, and not because of any informational value of such software; such software is not accorded the same treatment under the EAR as other "software'; and for export licensing purposes, encryption software is treated under the EAR in the same manner as a commodity included in ECCN 5A002*

License Requirements Note: See §744.17 of the EAR for additional license requirements for microprocessors having a processing speed of 5 GFLOPS or more and an arithmetic logic unit with an access width of 32 bit or more, including those incorporating ''information security'' functionality, and associated ''software'' and ''technology'' for the ''production'' or ''development'' of such microprocessors.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
CIV: N/A
TSR: N/A
ENC: Yes for certain EI controlled software, see §740.17 of the EAR for eligibility.
LIST OF ITEMS CONTROLLED
Related Controls: After classification or self-classification in accordance with §740.17(b) of the EAR, mass market encryption software that meet eligibility requirements are released from ''EI'' and ''NS'' controls. This software is designated as 5D992.c.
Related Definitions: 5D002.a controls ''software'' designed or modified to use ''cryptography'' employing digital or analog techniques to ensure ''information security'.
Items: a. ''Software'' ''specially designed'' or modified for the ''development,'' ''production'' or ''use'' of equipment controlled by 5A002, 5A003 or 5A004, or of ''software'' controlled by 5D002.c;

b. ''Software'' ''specially designed'' or modified to support ''technology'' controlled by 5E002;

c. Specific ''software'' as follows:

c.1. ''Software'' having the characteristics, or performing or simulating the functions of the equipment, controlled by 5A002, 5A003 or 5A004;

c.2. ''Software'' to certify ''software'' controlled by 5D002.c.1.

Note: 5D002.c does not apply to ''software'' limited to the tasks of ''OAM'' implementing only published or commercial cryptographic standards.

d. ''Software'' designed or modified to enable, by means of ''cryptographic activation,'' an item to achieve or exceed the controlled performance levels for functionality specified by 5A002.a that would not otherwise be enabled.

5D992 "Information Security" "software" not controlled by 5D002 as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Control(s)	Country Chart (See Supp. No. 1 to part 738)
AT applies to entire entry	AT Column 1.

License Requirements Note: See §744.17 of the EAR for additional license requirements for microprocessors having a processing speed of 5 GFLOPS or more and an arithmetic logic unit with an access width of 32 bit or more, including those incorporating ''information security'' functionality, and associated ''software'' and ''technology'' for the ''production'' or ''development'' of such microprocessors.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
CIV: N/A
TSR: N/A
LIST OF ITEMS CONTROLLED
Related Controls: This entry does not control ''software'' designed or modified to protect against malicious computer damage, *e.g.*, viruses, where the use of ''cryptography'' is limited to authentication, digital signature and/or the decryption of data or files.
Related Definitions: N/A
Items:

a. [Reserved]

b. [Reserved]

c. ''Software'' classified as mass market encryption software in accordance with §740.17(b) of the EAR.

E. ''TECHNOLOGY''

5E002 "Technology" as follows (see List of Items Controlled).

LICENSE REQUIREMENTS
Reason for Control: NS, AT, EI

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 1
AT applies to entire entry	AT Column 1
EI applies to "technology" in 5E002.a for commodities or "software" controlled for EI reasons in ECCNs 5A002, 5A004 or 5D002, and to "technology" in 5E002.b.	Refer to §742.15 of the EAR

License Requirement Note: When a person performs or provides technical assistance that incorporates, or otherwise draws upon, ''technology'' that was either obtained in the United States or is of US-origin, then a release of the ''technology'' takes place. Such technical assistance, when rendered with the intent to aid in the ''development'' or ''production'' of encryption commodities or software that would be controlled for ''EI'' reasons under ECCN 5A002 or 5D002, may require authorization under the EAR even if the underlying encryption algorithm to be implemented is from the public domain or is not of U.S. origin.

License Requirements Note:

(1) See §744.17 of the EAR for additional license requirements for microprocessors having a processing speed of 5 GFLOPS or more and an arithmetic logic unit with an access width of 32 bit or more, including those incorporating ''information security'' functionality, and associated ''software'' and ''technology'' for the ''production'' or ''development'' of such microprocessors.

(2) When a person performs or provides technical assistance that incorporates, or otherwise draws upon, ''technology'' that was either obtained in the United States or is of US-origin, then a release of the ''technology'' takes place. Such technical assistance, when rendered with the intent to aid in the ''development'' or ''production'' of encryption commodities or software that would be controlled for ''EI'' reasons under

ECCN 5A002, 5A004 or 5D002, may require authorization under the EAR even if the underlying encryption algorithm to be implemented is from the public domain or is not of U.S.-origin.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

ENC: Yes for certain EI controlled technology, see §740.17 of the EAR for eligibility.

LIST OF ITEMS CONTROLLED

Related Controls: See also 5E992. This entry does not control ''technology'' ''required'' for the ''use'' of equipment excluded from control under the Related Controls paragraph or the Technical Notes in ECCN 5A002 or ''technology'' related to equipment excluded from control under ECCN 5A002.

Related Definitions: N/A

Items: a. ''Technology'' according to the General Technology Note for the ''development,'' ''production'' or ''use'' of equipment controlled by 5A002, 5A003, 5A004 or 5B002, or of ''software'' controlled by 5D002.a or 5D002.c.

b. ''Technology'' to enable, by means of ''cryptographic activation,'' an item to achieve or exceed the controlled performance levels for functionality specified by 5A002.a that would not otherwise be enabled.

Note: 5E002 includes ''information security'' technical data resulting from procedures carried out to evaluate or determine the implementation of functions, features or techniques specified in Category 5-Part 2.

5E992 "Information Security" "technology" according to the General Technology Note, not controlled by 5E002, as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Control(s)	Country Chart (See Supp. No. 1 to part 738)
AT applies to entire entry	AT Column 1.

License Requirements Note: See §744.17 of the EAR for additional license requirements for microprocessors having a processing speed of 5 GFLOPS or more and an arithmetic logic unit with an access width of 32 bit or more, including those incorporating ''information security'' functionality, and associated ''software'' and ''technology'' for the ''production'' or ''development'' of such microprocessors.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: a. [Reserved]

b. ''Technology'', n.e.s., for the ''use'' of mass market commodities controlled by 5A992.c or mass market ''software'' controlled by 5D992.c.

EAR99 Items subject to the EAR that are not elsewhere specified in this CCL Category or in any other category in the CCL are designated by the number EAR99.

CATEGORY 6—SENSORS AND LASERS

A. ''END ITEMS'', ''EQUIPMENT'', ''ACCESSORIES'', ''ATTACHMENTS'', ''PARTS'', ''COMPONENTS'' AND ''SYSTEMS''

6A001 Acoustic systems, equipment and "components", as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 2
AT applies to entire entry	AT Column 1

REPORTING REQUIREMENTS See §743.1 of the EAR for reporting requirements for exports under License Exceptions, and Validated End-User authorizations

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: $3000; N/A for 6A001.a.1.b.1 object detection and location systems having a transmitting frequency below 5 kHz or a sound pressure level exceeding 210 dB (reference 1 μPa at 1 m) for equipment with an operating frequency in the band from 30 kHz to 2 kHz inclusive; 6A001.a.1.e, 6A001.a.2.a.1, a.2.a.2, 6A001.a.2.a.3, a.2.a.5, a.2.a.6, 6A001.a.2.b; processing equipment controlled by 6A001.a.2.c, and ''specially designed'' for real time application with towed acoustic hydrophone arrays; a.2.e.1, a.2.e.2; and bottom or bay cable systems controlled by 6A001.a.2.f and having processing equipment ''specially designed'' for real time application with bottom or bay cable systems.

GBS: Yes for 6A001.a.1.b.4.

CIV: Yes for 6A001.a.1.b.4.

SPECIAL CONDITIONS FOR STA

STA: License Exception STA may not be used to ship commodities in 6A001.a.1.b, 6A001.a.1.e or 6A001.a.2 (except .a.2.a.4) to any of the destinations listed in Country Group A:6 (See Supplement No. 1 to part 740 of the EAR).

LIST OF ITEMS CONTROLLED

Related Controls: See also 6A991.

Related Definitions: N/A

Items: a. Marine acoustic systems, equipment and ''specially designed'' ''components'' therefor, as follows:

a.1. Active (transmitting or transmitting-and-receiving) systems, equipment and

''specially designed'' ''components'' therefor, as follows:

Note: 6A001.a.1 does not control equipment as follows:

a. Depth sounders operating vertically below the apparatus, not including a scanning function exceeding ±20°, and limited to measuring the depth of water, the distance of submerged or buried objects or fish finding;

b. Acoustic beacons, as follows:

1. Acoustic emergency beacons;

2. Pingers ''specially designed'' for relocating or returning to an underwater position.

a.1.a. Acoustic seabed survey equipment as follows:

a.1.a.1. Surface vessel survey equipment designed for sea bed topographic mapping and having all of the following:

a.1.a.1.a. Designed to take measurements at an angle exceeding 20° from the vertical;

a.1.a.1.b. Designed to measure seabed topography at seabed depths exceeding 600 m;

a.1.a.1.c. ''Sounding resolution' less than 2; *and*

a.1.a.1.d. 'Enhancement' of the depth accuracy through compensation for all the following:

a.1.a.1.d.1. Motion of the acoustic sensor;

a.1.a.1.d.2. In-water propagation from sensor to the seabed and back; *and*

a.1.a.1.d.3. Sound speed at the sensor;

Technical Notes: 1. 'Sounding resolution' is the swath width (degrees) divided by the maximum number of soundings per swath.

2. 'Enhancement' includes the ability to compensate by external means.

a.1.a.2. Underwater survey equipment designed for seabed topographic mapping and having any of the following:

Technical Note: The acoustic sensor pressure rating determines the depth rating of the equipment specified by 6A001.a.1.a.2.

a.1.a.2.a. Having all of the following:

a.1.a.2.a.1. Designed or modified to operate at depths exceeding 300 m; and

a.1.a.2.a.2. 'Sounding rate' greater than 3,800 m/s; *or*

Technical Note: 'Sounding rate' is the product of the maximum speed (m/s) at which the sensor can operate and the maximum number of soundings per swath assuming 100% coverage. For systems that produce soundings in two directions (3D sonars), the maximum of the 'sounding rate' in either direction should be used.

a.1.a.2.b. Survey equipment, not specified by 6A001.a.1.a.2.a, having all of the following:

a.1.a.2.b.1. Designed or modified to operate at depths exceeding 100 m;

a.1.a.2.b.2. Designed to take measurements at an angle exceeding 20° from the vertical;

a.1.a.2.b.3. Having any of the following:

a.1.a.2.b.3.a. Operating frequency below 350 kHz; *or*

a.1.a.2.b.3.b. Designed to measure seabed topography at a range exceeding 200 m from the acoustic sensor; *and*

a.1.a.2.b.4. 'Enhancement' of the depth accuracy through compensation of all of the following:

a.1.a.2.b.4.a. Motion of the acoustic sensor;

a.1.a.2.b.4.b. In-water propagation from sensor to the seabed and back; *and*

a.1.a.2.b.4.c. Sound speed at the sensor.

a.1.a.3. Side Scan Sonar (SSS) or Synthetic Aperture Sonar (SAS), designed for seabed imaging and having all of the following, and specially designed transmitting and receiving acoustic arrays therefor:

a.1.a.3.a. Designed or modified to operate at depths exceeding 500 m; and

a.1.a.3.b. An 'area coverage rate' of greater than 570 m^2/s while operating at the maximum range that it can operate with an 'along track resolution' of less than 15 cm; *and*

a.1.a.3.c. An 'across track resolution' of less than 15 cm;

Technical Notes: 1. 'Area coverage rate' (m^2/s) is twice the product of the sonar range (m) and the maximum speed (m/s) at which the sensor can operate at that range.

2. 'Along track resolution' (cm), for SSS only, is the product of azimuth (horizontal) beamwidth (degrees) and sonar range (m) and 0.873.

3. 'Across track resolution' (cm) is 75 divided by the signal bandwidth (kHz).

a.1.b. Systems or transmitting and receiving arrays, designed for object detection or location, having any of the following:

a.1.b.1. A transmitting frequency below 10 kHz;

a.1.b.2. Sound pressure level exceeding 224dB (reference 1μPa at 1 m) for equipment with an operating frequency in the band from 10 kHz to 24 kHz inclusive;

a.1.b.3. Sound pressure level exceeding 235 dB (reference 1 μPa at 1 m) for equipment with an operating frequency in the band between 24 kHz and 30 kHz;

a.1.b.4. Forming beams of less than 1° on any axis and having an operating frequency of less than 100 kHz;

a.1.b.5. Designed to operate with an unambiguous display range exceeding 5,120 m; *or*

a.1.b.6. Designed to withstand pressure during normal operation at depths exceeding 1,000 m and having transducers with any of the following:

a.1.b.6.a. Dynamic compensation for pressure; *or*

a.1.b.6.b. Incorporating other than lead zirconate titanate as the transduction element;

a.1.c. Acoustic projectors, including transducers, incorporating piezoelectric, magnetostrictive, electrostrictive, electrodynamic or hydraulic elements operating individually or in a designed combination and having any of the following:

Notes: 1. The control status of acoustic projectors, including transducers, ''specially designed'' for other equipment not specified by 6A001 is determined by the control status of the other equipment.

2. 6A001.a.1.c does not control electronic sources that direct the sound vertically only, or mechanical (e.g., air gun or vapor-shock gun) or chemical (e.g., explosive) sources.

3. Piezoelectric elements specified in 6A001.a.1.c include those made from lead-magnesium-niobate/lead-titanate ($Pb(Mg_{1/3}Nb_{2/3})O_3$-$PbTiO_3$, or PMN-PT) single crystals grown from solid solution or lead-indium-niobate/lead-magnesium niobate/lead-titanate ($Pb(In_{1/2}Nb_{1/2})O_3$-$Pb(Mg_{1/3}Nb_{2/3})O_3$-$PbTiO_3$, or PIN-PMN-PT) single crystals grown from solid solution.

a.1.c.1. Operating at frequencies below 10 kHz and having any of the following:

a.1.c.1.a. Not designed for continuous operation at 100% duty cycle and having a radiated 'free-field Source Level (SL_{RMS})' exceeding (10log(f) + 169.77)dB (reference 1 μPa at 1 m) where f is the frequency in Hertz of maximum Transmitting Voltage Response (TVR) below 10 kHz; *or*

a.1.c.1.b. Designed for continuous operation at 100% duty cycle and having a continuously radiated 'free-field Source Level (SL_{RMS})' at 100% duty cycle exceeding (10log(f) + 159.77)dB (reference 1 μPa at 1 m) where f is the frequency in Hertz of maximum Transmitting Voltage Response (TVR) below 10 kHz; *or*

Technical Note: The 'free-field Source Level (SL_{RMS})' is defined along the maximum response axis and in the far field of the acoustic projector. It can be obtained from the Transmitting Voltage Response using the following equation: $SL_{RMS} = (TVR + 20\log V_{RMS})$ dB (ref 1μPa at 1 m), where SL_{RMS} is the source level, TVR is the Transmitting Voltage Response and V_{RMS} is the Driving Voltage of the Projector.

a.1.c.2. [Reserved]

N.B.: See 6A001.a.1.c.1 for items previously specified in 6A001a.1.c.2.

a.1.c.3. Side-lobe suppression exceeding 22 dB;

a.1.d. Acoustic systems and equipment, designed to determine the position of surface vessels or underwater vehicles and having all of the following, and ''specially designed'' ''components'' therefor:

a.1.d.1. Detection range exceeding 1,000 m; and

a.1.d.2. Determined position error of less than 10 m rms (root mean square) when measured at a range of 1,000 m;

Note: 6A001.a.1.d includes:

a. Equipment using coherent ''signal processing'' between two or more beacons and the hydrophone unit carried by the surface vessel or underwater vehicle;

b. Equipment capable of automatically correcting speed-of-sound propagation errors for calculation of a point.

a.1.e. Active individual sonars, ''specially designed'' or modified to detect, locate and automatically classify swimmers or divers, having all of the following, and ''specially designed'' transmitting and receiving acoustic arrays therefor:

a.1.e.1. Detection range exceeding 530 m;

a.1.e.2. Determined position error of less than 15 m rms (root mean square) when measured at a range of 530 m; *and*

a.1.e.3. Transmitted pulse signal bandwidth exceeding 3 kHz;

N.B.: For diver detection systems ''specially designed'' or modified for military use, see the U.S. Munitions List in the International Traffic in Arms Regulations (ITAR) (22 CFR part 121).

a.2. Passive systems, equipment and ''specially designed'' ''components'' therefor, as follows:

a.2.a. Hydrophones having any of the following:

Note: The control status of hydrophones ''specially designed'' for other equipment is determined by the control status of the other equipment.

Technical Note: Hydrophones consist of one or more sensing elements producing a single acoustic output channel. Those that contain multiple elements can be referred to as a hydrophone group.

a.2.a.1. Incorporating continuous flexible sensing elements;

a.2.a.2. Incorporating flexible assemblies of discrete sensing elements with either a diameter or length less than 20 mm and with a separation between elements of less than 20 mm;

a.2.a.3. Having any of the following sensing elements:

a.2.a.3.a. Optical fibers;

a.2.a.3.b. 'Piezoelectric polymer films' other than polyvinylidene-fluoride (PVDF) and its co-polymers {P(VDF-TrFE) and P(VDF-TFE)};

a.2.a.3.c. 'Flexible piezoelectric composites';

a.2.a.3.d. Lead-magnesium-niobate/lead-titanate (i.e., $Pb(Mg_{1/3}Nb_{2/3})O_3$-$PbTiO_3$, or PMN-PT) piezoelectric single crystals grown from solid solution; *or*

a.2.a.3.e. Lead-indium-niobate/lead-magnesium niobate/lead-titanate (i.e., $Pb(In_{1/2}Nb_{1/2})O_3$-$Pb(Mg_{1/3}Nb_{2/3})O_3$-$PbTiO_3$, or PIN-PMN-PT) piezoelectric single crystals grown from solid solution;

a.2.a.4. A 'hydrophone sensitivity' better than −180dB at any depth with no acceleration compensation;

a.2.a.5. Designed to operate at depths exceeding 35 m with acceleration compensation; *or*

a.2.a.6. Designed for operation at depths exceeding 1,000 m;

Technical Notes: 1. 'Piezoelectric polymer film' sensing elements consist of polarized polymer film that is stretched over and attached to a supporting frame or spool (mandrel).

2. 'Flexible piezoelectric composite' sensing elements consist of piezoelectric ceramic particles or fibers combined with an electrically insulating, acoustically transparent rubber, polymer or epoxy compound, where the compound is an integral part of the sensing elements.

3. 'Hydrophone sensitivity' is defined as twenty times the logarithm to the base 10 of the ratio of rms output voltage to a 1 V rms reference, when the hydrophone sensor, without a pre-amplifier, is placed in a plane wave acoustic field with an rms pressure of 1 μPa. For example, a hydrophone of −160 dB (reference 1 V per μPa) would yield an output voltage of 10^{-8} V in such a field, while one of −180 dB sensitivity would yield only 10^{-9} V output. Thus, −160 dB is better than −180 dB.

a.2.b. Towed acoustic hydrophone arrays having any of the following:

Technical Note: Hydrophone arrays consist of a number of hydrophones providing multiple acoustic output channels.

a.2.b.1. Hydrophone group spacing of less than 12.5 m or 'able to be modified' to have hydrophone group spacing of less than 12.5 m;

a.2.b.2. Designed or 'able to be modified' to operate at depths exceeding 35m;

Technical Note: 'Able to be modified' in 6A001.a.2.b means having provisions to allow a change of the wiring or interconnections to alter hydrophone group spacing or operating depth limits. These provisions are: spare wiring exceeding 10% of the number of wires, hydrophone group spacing adjustment blocks or internal depth limiting devices that are adjustable or that control more than one hydrophone group.

a.2.b.3. Heading sensors controlled by 6A001.a.2.d;

a.2.b.4. Longitudinally reinforced array hoses;

a.2.b.5. An assembled array of less than 40 mm in diameter;

a.2.b.6. [Reserved]

a.2.b.7. Hydrophone characteristics controlled by 6A001.a.2.a; *or*

a.2.b.8. Accelerometer-based hydro-acoustic sensors specified by 6A001.a.2.g;

a.2.c. Processing equipment, ''specially designed'' for towed acoustic hydrophone arrays, having ''user accessible programmability'' and time or frequency domain processing and correlation, including spectral analysis, digital filtering and beamforming using Fast Fourier or other transforms or processes;

a.2.d. Heading sensors having all of the following:

a.2.d.1. An ''accuracy'' of better than ±0.5°; *and*

a.2.d.2. Designed to operate at depths exceeding 35 m or having an adjustable or removable depth sensing device in order to operate at depths exceeding 35 m;

a.2.e. Bottom or bay-cable hydrophone arrays having any of the following:

a.2.e.1. Incorporating hydrophones controlled by 6A001.a.2.a;

a.2.e.2. Incorporating multiplexed hydrophone group signal modules having all of the following characteristics:

a.2.e.2.a. Designed to operate at depths exceeding 35 m or having an adjustable or removal depth sensing device in order to operate at depths exceeding 35 m; *and*

a.2.e.2.b. Capable of being operationally interchanged with towed acoustic hydrophone array modules; *or*

a.2.e.3. Incorporating accelerometer-based hydro-acoustic sensors specified by 6A001.a.2.g;

a.2.f. Processing equipment, ''specially designed'' for bottom or bay cable systems, having ''user accessible programmability'' and time or frequency domain processing and correlation, including spectral analysis, digital filtering and beamforming using Fast Fourier or other transforms or processes;

a.2.g. Accelerometer-based hydro-acoustic sensors having all of the following:

a.2.g.1. Composed of three accelerometers arranged along three distinct axes;

a.2.g.2. Having an overall 'acceleration sensitivity' better than 48 dB (reference 1,000 mV rms per 1g);

a.2.g.3. Designed to operate at depths greater than 35 meters; *and*

a.2.g.4. Operating frequency below 20 kHz;

Note: 6A001.a.2.g does not apply to particle velocity sensors or geophones.

Note: 6A001.a.2 also applies to receiving equipment, whether or not related in normal application to separate active equipment, and ''specially designed'' ''components'' therefor.

Technical Notes:

1. Accelerometer-based hydro-acoustic sensors are also known as vector sensors.

2. 'Acceleration sensitivity' is defined as twenty times the logarithm to the base 10 of the ratio of rms output voltage to a 1 V rms reference, when the hydro-acoustic sensor, without a pre-amplifier, is placed in a plane wave acoustic field with an rms acceleration of 1 g (i.e., 9.81 m/s^2).

b. Correlation-velocity and Doppler-velocity sonar log equipment designed to measure the horizontal speed of the equipment carrier relative to the sea bed, as follows:

b.1. Correlation-velocity sonar log equipment having any of the following characteristics:

b.1.a. Designed to operate at distances between the carrier and the sea bed exceeding 500 m; *or*

b.1.b. Having speed ''accuracy'' better than 1% of speed;

b.2. Doppler-velocity sonar log equipment having speed ''accuracy'' better than 1% of speed;

Note 1: 6A001.b does not apply to depth sounders limited to any of the following:

a. Measuring the depth of water;

b. Measuring the distance of submerged or buried objects; or

c. Fish finding.

Note 2: 6A001.b. does not apply to equipment ''specially designed'' for installation on surface vessels.

c. [Reserved]

N.B.: For diver deterrent acoustic systems, see 8A002.r.

6A002 Optical sensors and equipment, and "components" therefor, as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, MT, CC, RS, AT, UN

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 2.
MT applies to optical detectors in 6A002.a.1, or a.3 that are "specially designed" or modified to protect "missiles" against nuclear effects (e.g., Electromagnetic Pulse (EMP), X-rays, combined blast and thermal effects), and usable for "missiles".	MT Column 1.
RS applies to 6A002.a.1, a.2, a.3 (except a.3.d.2.a and a.3.e for lead selenide based focal plane arrays (FPAs)), and .c.	RS Column 1.
CC applies to police-model infrared viewers in 6A002.c.	CC Column 1.
AT applies to entire entry	AT Column 1.
UN applies to 6A002.a.1, a.2, a.3 and c.	See §746.1(b) for UN controls.

REPORTING REQUIREMENTS See §743.1 of the EAR for reporting requirements for exports under License Exceptions, and Validated End-User authorizations

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: $3,000; except N/A for MT and for 6A002.a.1, a.2, a.3, and .c.

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: (1) See USML Category XII(e)for infrared focal plane arrays, image intensifier tubes, and related parts and components, subject to the ITAR. (2) See USML Category XV(e) for space-qualified focal plane arrays subject to the ITAR. (3) See also ECCNs 6A102, 6A202, and 6A992. (4) See ECCN 0A919 for foreign-made military commodities that incorporate commodities described in 6A002. (5) Section 744.9 imposes a license requirement on commodities described in ECCN 6A002 if being exported, reexported, or transferred (in-country) for use by a military end-user or for incorporation into an item controlled by ECCN 0A919.

Note: Exporters may apply for a commodity jurisdiction request with the Department of State, Directorate of Defense Trade Controls for "space qualified" solid-state detectors defined in 6A002.a.1 and imaging sensors (e.g., "monospectral imaging sensors" and "multispectral imaging sensors") defined in 6A002.b.2.b.1 that may have predominant civil application(s).

Related Definitions: N/A

Items: a. Optical detectors, as follows:

a. Optical detectors as follows:

a.1. "Space-qualified" solid-state detectors as follows:

Note: For the purpose of 6A002.a.1, solid-state detectors include "focal plane arrays".

a.1.a. "Space-qualified" solid-state detectors having all of the following:

a.1.a.1. A peak response in the wavelength range exceeding 10 nm but not exceeding 300 nm; *and*

a.1.a.2. A response of less than 0.1% relative to the peak response at a wavelength exceeding 400 nm;

a.1.b. "Space-qualified" solid-state detectors having all of the following:

a.1.b.1. A peak response in the wavelength range exceeding 900 nm but not exceeding 1,200 nm; *and*

a.1.b.2. A response "time constant" of 95 ns or less;

a.1.c. "Space-qualified" solid-state detectors having a peak response in the wavelength range exceeding 1,200 nm but not exceeding 30,000 nm;

a.1.d. "Space-qualified" "focal plane arrays" having more than 2,048 elements per array and having a peak response in the wavelength range exceeding 300 nm but not exceeding 900 nm;

a.2. Image intensifier tubes and "specially designed" "components" therefor, as follows:

Note: 6A002.a.2 does not control non-imaging photomultiplier tubes having an electron sensing device in the vacuum space limited solely to any of the following:

a. A single metal anode; or

b. Metal anodes with a center to center spacing greater than 500 μm.

Technical Note: 'Charge multiplication' is a form of electronic image amplification and is defined as the generation of charge carriers as a result of an impact ionization gain process. 'Charge multiplication' sensors may take the form of an image intensifier tube, solid state detector or "focal plane array".

a.2.a. Image intensifier tubes having all of the following:

a.2.a.1. A peak response in the wavelength range exceeding 400 nm but not exceeding 1,050 nm;

a.2.a.2. Electron image amplification using any of the following:

a.2.a.2.a. A microchannel plate with a hole pitch (center-to-center spacing) of 12 μm or less; *or*

a.2.a.2.b. An electron sensing device with a non-binned pixel pitch of 500 μm or less, "specially designed" or modified to achieve 'charge multiplication' other than by a microchannel plate; *and*

a.2.a.3. Any of the following photocathodes:

a.2.a.3.a. Multialkali photocathodes (e.g., S–20 and S–25) having a luminous sensitivity exceeding 350 μA/lm;

a.2.a.3.b. GaAs or GaInAs photocathodes; *or*

a.2.a.3.c. Other ''III–V compound'' semiconductor photocathodes having a maximum ''radiant sensitivity'' exceeding 10 mA/W;

a.2.b. Image intensifier tubes having all of the following:

a.2.b.1. A peak response in the wavelength range exceeding 1,050 nm but not exceeding 1,800 nm;

a.2.b.2. Electron image amplification using any of the following:

a.2.b.2.a. A microchannel plate with a hole pitch (center-to-center spacing) of 12 μm or less; *or*

a.2.b.2.b. An electron sensing device with a non-binned pixel pitch of 500 μm or less, ''specially designed'' or modified to achieve 'charge multiplication' other than by a microchannel plate; *and*

a.2.b.3. ''III/V compound'' semiconductor (e.g., GaAs or GaInAs) photocathodes and transferred electron photocathodes, having a maximum ''radiant sensitivity'' exceeding 15 mA/W;

a.2.c. ''Specially designed'' ''components'', as follows:

a.2.c.1. Microchannel plates having a hole pitch (center-to-center spacing) of 12 μm or less;

a.2.c.2. An electron sensing device with a non-binned pixel pitch of 500 μm or less, ''specially designed'' or modified to achieve 'charge multiplication' other than by a microchannel plate;

a.2.c.3. ''III–V compound'' semiconductor (e.g., GaAs or GaInAs) photocathodes and transferred electron photocathodes;

Note: 6A002.a.2.c.3 does not control compound semiconductor photocathodes designed to achieve a maximum ''radiant sensitivity'' of any of the following:

a. 10 mA/W or less at the peak response in the wavelength range exceeding 400 nm but not exceeding 1,050 nm; or

b. 15 mA/W or less at the peak response in the wavelength range exceeding 1,050 nm but not exceeding 1,800 nm.

a.3. Non-''space-qualified'' ''focal plane arrays'' as follows:

N.B.: 'Microbolometer' non-''space-qualified'' ''focal plane arrays'' are only specified by 6A002.a.3.f.

Technical Note: Linear or two-dimensional multi-element detector arrays are referred to as ''focal plane arrays'';

Note 1: 6A002.a.3 includes photoconductive arrays and photovoltaic arrays.

Note 2: 6A002.a.3 does not control:

a. Multi-element (not to exceed 16 elements) encapsulated photoconductive cells using either lead sulphide or lead selenide;

b. Pyroelectric detectors using any of the following:

b.1. Triglycine sulphate and variants;

b.2. Lead-lanthanum-zirconium titanate and variants;

b.3. Lithium tantalate;

b.4. Polyvinylidene fluoride and variants; or

b.5. Strontium barium niobate and variants.

c. ''Focal plane arrays'' ''specially designed'' or modified to achieve 'charge multiplication' and limited by design to have a maximum ''radiant sensitivity'' of 10 mA/W or less for wavelengths exceeding 760 nm, having all of the following:

c.1. Incorporating a response limiting mechanism designed not to be removed or modified; and

c.2. Any of the following:

c.2.a. The response limiting mechanism is integral to or combined with the detector element; or

c.2.b. The ''focal plane array'' is only operable with the response limiting mechanism in place.

d. Thermopile arrays having less than 5,130 elements;

Technical Note: A response limiting mechanism integral to the detector element is designed not to be removed or modified without rendering the detector inoperable.

a.3.a. Non-''space-qualified'' ''focal plane arrays'' having all of the following:

a.3.a.1. Individual elements with a peak response within the wavelength range exceeding 900 nm but not exceeding 1,050 nm; *and*

a.3.a.2. Any of the following:

a.3.a.2.a. A response ''time constant'' of less than 0.5 ns; *or*

a.3.a.2.b. ''Specially designed'' or modified to achieve 'charge multiplication' and having a maximum ''radiant sensitivity'' exceeding 10 mA/W;

a.3.b. Non-''space-qualified'' ''focal plane arrays'' having all of the following:

a.3.b.1. Individual elements with a peak response in the wavelength range exceeding 1,050 nm but not exceeding 1,200 nm; *and*

a.3.b.2. Any of the following:

a.3.b.2.a. A response ''time constant'' of 95 ns or less; *or*

a.3.b.2.b. ''Specially designed'' or modified to achieve 'charge multiplication' and having a maximum ''radiant sensitivity'' exceeding 10 mA/W;

a.3.c. Non-''space-qualified'' non-linear (2-dimensional) ''focal plane arrays'' having individual elements with a peak response in the wavelength range exceeding 1,200 nm but not exceeding 30,000 nm;

N.B.: Silicon and other material based 'microbolometer' non-''space-qualified'' ''focal plane arrays'' are only specified by 6A002.a.3.f.

a.3.d. Non-''space-qualified'' linear (1-dimensional) ''focal plane arrays'' having all of the following:

a.3.d.1. Individual elements with a peak response in the wavelength range exceeding 1,200 nm but not exceeding 3,000 nm; *and*

a.3.d.2. Any of the following:

a.3.d.2.a. A ratio of 'scan direction' dimension of the detector element to the 'cross-

scan direction' dimension of the detector element of less than 3.8; *or*

a.3.d.2.b. Signal processing in the detector elements;

Note: 6A002.a.3.d does not control ''focal plane arrays'' (not to exceed 32 elements) having detector elements limited solely to germanium material.

Technical Note: For the purposes of 6A002.a.3.d, 'cross-scan direction' is defined as the axis parallel to the linear array of detector elements and the 'scan direction' is defined as the axis perpendicular to the linear array of detector elements.

a.3.e. Non-''space-qualified'' linear (1-dimensional) ''focal plane arrays'' having individual elements with a peak response in the wavelength range exceeding 3,000 nm but not exceeding 30,000 nm;

a.3.f. Non-''space-qualified'' non-linear (2-dimensional) infrared ''focal plane arrays'' based on 'microbolometer' material having individual elements with an unfiltered response in the wavelength range equal to or exceeding 8,000 nm but not exceeding 14,000 nm;

Technical Note: For the purposes of 6A002.a.3.f, 'microbolometer' is defined as a thermal imaging detector that, as a result of a temperature change in the detector caused by the absorption of infrared radiation, is used to generate any usable signal.

a.3.g. Non-''space-qualified'' ''focal plane arrays'' having all of the following:

a.3.g.1. Individual detector elements with a peak response in the wavelength range exceeding 400 nm but not exceeding 900 nm;

a.3.g.2. ''Specially designed'' or modified to achieve 'charge multiplication' and having a maximum ''radiant sensitivity'' exceeding 10 mA/W for wavelengths exceeding 760 nm; *and*

a.3.g.3. Greater than 32 elements;

b. ''Monospectral imaging sensors'' and ''multispectral imaging sensors'', designed for remote sensing applications and having any of the following:

b.1. An Instantaneous-Field-Of-View (IFOV) of less than 200 μrad (microradians); *or*

b.2. Specified for operation in the wavelength range exceeding 400 nm but not exceeding 30,000 nm and having all the following:

b.2.a. Providing output imaging data in digital format; *and*

b.2.b. Having any of the following characteristics:

b.2.b.1. ''Space-qualified''; *or*

b.2.b.2. Designed for airborne operation, using other than silicon detectors, and having an IFOV of less than 2.5 mrad (milliradians);

Note: 6A002.b.1 does not control ''monospectral imaging sensors'' with a peak response in the wavelength range exceeding 300 nm but not exceeding 900 nm and only incorporating any of the following non-''space-qualified'' detectors or non-''space-qualified'' ''focal plane arrays'':

a. Charge Coupled Devices (CCD) not designed or modified to achieve 'charge multiplication'; or

b. Complementary Metal Oxide Semiconductor (CMOS) devices not designed or modified to achieve 'charge multiplication'.

c. 'Direct view' imaging equipment incorporating any of the following:

c.1. Image intensifier tubes having the characteristics listed in 6A002.a.2.a or 6A002.a.2.b;

c.2. ''Focal plane arrays'' having the characteristics listed in 6A002.a.3; *or*

c.3. Solid state detectors specified by 6A002.a.1;

Technical Note: 'Direct view' refers to imaging equipment that presents a visual image to a human observer without converting the image into an electronic signal for television display, and that cannot record or store the image photographically, electronically or by any other means.

Note: 6A002.c does not control equipment as follows, when incorporating other than GaAs or GaInAs photocathodes:

a. Industrial or civilian intrusion alarm, traffic or industrial movement control or counting systems;

b. Medical equipment;

c. Industrial equipment used for inspection, sorting or analysis of the properties of materials;

d. Flame detectors for industrial furnaces;

e. Equipment ''specially designed'' for laboratory use.

d. Special support ''components'' for optical sensors, as follows:

d.1. ''Space-qualified'' cryocoolers;

d.2. Non-''space-qualified'' cryocoolers having a cooling source temperature below 218K (−55 °C), as follows:

d.2.a. Closed cycle type with a specified Mean-Time-To-Failure (MTTF) or Mean-Time-Between-Failures (MTBF), exceeding 2,500 hours;

d.2.b. Joule-Thomson (JT) self-regulating minicoolers having bore (outside) diameters of less than 8 mm;

d.3. Optical sensing fibers specially fabricated either compositionally or structurally, or modified by coating, to be acoustically, thermally, inertially, electromagnetically or nuclear radiation sensitive.

Note: 6A002.d.3 does not apply to encapsulated optical sensing fibers ''specially designed'' for bore hole sensing applications.

6A003 Cameras, systems or equipment, and "components" therefor, as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, NP, RS, AT, UN

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 2.

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NP applies to cameras controlled by 6A003.a.2, a.3 or a.4 and to plug-ins in 6A003.a.6 for cameras controlled by 6A003.a.3 or a.4.	NP Column 1.
RS applies to 6A003.b.3, 6A003.b.4.a, 6A003.b.4.c and to items controlled in 6A003.b.4.b that have a frame rate greater than 60 Hz or that incorporate a focal plane array with more than 111,000 elements, or to items in 6A003.b.4.b when being exported or reexported to be embedded in a civil product. (But see §742.6(a)(2)(iii) and (v) for certain exemptions).	RS Column 1.
RS applies to items controlled in 6A003.b.4.b that have a frame rate of 60 Hz or less and that incorporate a focal plane array with not more than 111,000 elements if not being exported or reexported to be embedded in a civil product.	RS Column 2.
AT applies to entire entry	AT Column 1.
UN applies to items controlled in 6A003.b.3 and b.4..	See §746.1(b) for UN controls.

License Requirement Note: Commodities that are not subject to the ITAR but are of the type described in USML Category XII(c) are controlled as cameras in ECCN 6A003 when they incorporate a camera controlled in this ECCN.

REPORTING REQUIREMENTS Reporting Requirements See §743.3 of the EAR for thermal camera reporting for exports that are not authorized by an individually validated license of thermal imaging cameras controlled by ECCN 6A003.b.4.b to destinations in Country Group A:1 (see supplement no. 1 to part 740 of the EAR), must be reported to BIS.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: $1500, except N/A for 6A003.a.2 through a.6, b.1, b.3 and b.4.

GBS: Yes for 6A003.a.1.

CIV: Yes for 6A003.a.1.

SPECIAL CONDITIONS FOR STA

STA: License Exception STA may not be used to ship any commodity in 6A003.b.3 or b.4 to any of the destinations listed in Country Group A:6 (See Supplement No. 1 to part 740 of the EAR).

LIST OF ITEMS CONTROLLED

Related Controls: (1) See ECCNs 6E001 (''development''), 6E002 (''production''), and 6E201 (''use'') for technology for items controlled under this entry. (2) Also see ECCN 6A203. (3) See ECCN 0A919 for foreign made military commodities that incorporate cameras described in 6A003. (4) Section 744.9 imposes a license requirement on cameras described in 6A003 if being exported, reexported, or transferred (in-country) for use by a military end-user or for incorporation into a commodity controlled by ECCN 0A919. (5) See USML Category XII(c) and (e) for cameras subject to the ITAR.

Related Definitions: N/A

Items: a. Instrumentation cameras and ''specially designed'' ''components'' therefor, as follows:

Note: Instrumentation cameras, controlled by 6A003.a.3 to 6A003.a.5, with modular structures should be evaluated by their maximum capability, using plug-ins available according to the camera manufacturer's specifications.

a.1. High-speed cinema recording cameras using any film format from 8 mm to 16 mm inclusive, in which the film is continuously advanced throughout the recording period, and that are capable of recording at framing rates exceeding 13,150 frames/s;

Note: 6A003.a.1 does not control cinema recording cameras designed for civil purposes.

a.2. Mechanical high speed cameras, in which the film does not move, capable of recording at rates exceeding 1,000,000 frames/s for the full framing height of 35 mm film, or at proportionately higher rates for lesser frame heights, or at proportionately lower rates for greater frame heights;

a.3. Mechanical or electronic streak cameras as follows:

a.3.a. Mechanical streak cameras having writing speeds exceeding 10 mm/μs;

a.3.b. Electronic streak cameras having temporal resolution better than 50 ns;

a.4. Electronic framing cameras having a speed exceeding 1,000,000 frames/s;

a.5. Electronic cameras having all of the following:

a.5.a. An electronic shutter speed (gating capability) of less than 1μs per full frame; *and*

a.5.b. A read out time allowing a framing rate of more than 125 full frames per second;

a.6. Plug-ins having all of the following characteristics:

a.6.a. ''Specially designed'' for instrumentation cameras which have modular structures and that are controlled by 6A003.a; *and*

a.6.b. Enabling these cameras to meet the characteristics specified by 6A003.a.3, 6A003.a.4 or 6A003.a.5, according to the manufacturer's specifications;

b. Imaging cameras as follows:

Note: 6A003.b does not control television or video cameras ''specially designed'' for television broadcasting.

b.1. Video cameras incorporating solid state sensors, having a peak response in the wavelength range exceeding 10 nm, but not exceeding 30,000 nm and having all of the following:

b.1.a. Having any of the following:

b.1.a.1. More than 4×10^6 ''active pixels'' per solid state array for monochrome (black and white) cameras;

b.1.a.2. More than 4×10^6 ''active pixels'' per solid state array for color cameras incorporating three solid state arrays; *or*

b.1.a.3. More than 12×10^6 ''active pixels'' for solid state array color cameras incorporating one solid state array; *and*

b.1.b. Having any of the following:

b.1.b.1. Optical mirrors controlled by 6A004.a.;

b.1.b.2. Optical control equipment controlled by 6A004.d.; *or*

b.1.b.3. The capability for annotating internally generated 'camera tracking data';

Technical Notes: 1. For the purposes of this entry, digital video cameras should be evaluated by the maximum number of ''active pixels'' used for capturing moving images.

2. For the purpose of this entry, 'camera tracking data' is the information necessary to define camera line of sight orientation with respect to the earth. This includes: 1) the horizontal angle the camera line of sight makes with respect to the earth's magnetic field direction and; 2) the vertical angle between the camera line of sight and the earth's horizon.

b.2. Scanning cameras and scanning camera systems, having all of the following:

b.2.a. A peak response in the wavelength range exceeding 10 nm, but not exceeding 30,000 nm;

b.2.b. Linear detector arrays with more than 8,192 elements per array; *and*

b.2.c. Mechanical scanning in one direction;

Note: 6A003.b.2 does not apply to scanning cameras and scanning camera systems, ''specially designed'' for any of the following:

a. Industrial or civilian photocopiers;

b. Image scanners ''specially designed'' for civil, stationary, close proximity scanning applications (e.g., reproduction of images or print contained in documents, artwork or photographs); or

c. Medical equipment.

b.3. Imaging cameras incorporating image intensifier tubes having the characteristics listed in 6A002.a.2.a or 6A002.a.2.b;

b.4. Imaging cameras incorporating ''focal plane arrays'' having any of the following:

b.4.a. Incorporating ''focal plane arrays'' controlled by 6A002.a.3.a to 6A002.a.3.e;

b.4.b. Incorporating ''focal plane arrays'' controlled by 6A002.a.3.f; *or*

b.4.c. Incorporating ''focal plane arrays'' controlled by 6A002.a.3.g;

Note 1: Imaging cameras described in 6A003.b.4 include ''focal plane arrays'' combined with sufficient ''signal processing'' electronics, beyond the read out integrated circuit, to enable as a minimum the output of an analog or digital signal once power is supplied.

Note 2: 6A003.b.4.a does not control imaging cameras incorporating linear ''focal plane arrays'' with 12 elements or fewer, not employing time-delay-and-integration within the element and designed for any of the following:

a. Industrial or civilian intrusion alarm, traffic or industrial movement control or counting systems;

b. Industrial equipment used for inspection or monitoring of heat flows in buildings, equipment or industrial processes;

c. Industrial equipment used for inspection, sorting or analysis of the properties of materials;

d. Equipment ''specially designed'' for laboratory use; or

e. Medical equipment.

Note 3: 6A003.b.4.b does not control imaging cameras having any of the following:

a. A maximum frame rate equal to or less than 9 Hz;

b. Having all of the following:

1. Having a minimum horizontal or vertical 'Instantaneous-Field-of-View (IFOV)' of at least 10 mrad/pixel (milliradians/pixel);

2. Incorporating a fixed focal-length lens that is not designed to be removed;

3. Not incorporating a 'direct view' display; and

Technical Note: 'Direct view' refers to an imaging camera operating in the infrared spectrum that presents a visual image to a human observer using a near-to-eye micro display incorporating any light-security mechanism.

4. Having any of the following:

a. No facility to obtain a viewable image of the detected field-of-view; or

b. The camera is designed for a single kind of application and designed not to be user modified; or

Technical Note: 'Instantaneous Field of View (IFOV)' specified in Note 3.b is the lesser figure of the 'Horizontal FOV' or the 'Vertical FOV'.

'Horizontal IFOV' = horizontal Field of View (FOV)/number of horizontal detector elements

'Vertical IFOV'= vertical Field of View (FOV)/number of vertical detector elements.

c. The camera is ''specially designed'' for installation into a civilian passenger land vehicle and having all of the following:

1. The placement and configuration of the camera within the vehicle are solely to assist the driver in the safe operation of the vehicle;

2. Is operable only when installed in any of the following:

a. The civilian passenger land vehicle for which it was intended and the vehicle weighs less than 4,500 kg (gross vehicle weight); or

b. A ''specially designed'', authorized maintenance test facility; and

3. Incorporates an active mechanism that forces the camera not to function when it is removed from the vehicle for which it was intended.

Note: When necessary details of the items will be provided, upon request, to the Bureau of Industry and Security in order to ascertain compliance with the conditions described in Note 3.b.4 and Note 3.c in this Note to 6A003.b.4.b.

Note 4: 6A003.b.4.c does not apply to 'imaging cameras' having any of the following characteristics:

a. Having all of the following:

1. Where the camera is ''specially designed'' for installation as an integrated component into indoor and wall-plug-operated systems or equipment, limited by design for a single kind of application, as follows:

a. Industrial process monitoring, quality control, or analysis of the properties of materials;

b. Laboratory equipment ''specially designed'' for scientific research;

c. Medical equipment;

d. Financial fraud detection equipment; and

2. Is only operable when installed in any of the following:

a. The system(s) or equipment for which it was intended; or

b. A ''specially designed'', authorized maintenance facility; and

3. Incorporates an active mechanism that forces the camera not to function when it is removed from the system(s) or equipment for which it was intended;

b. Where the camera is ''specially designed'' for installation into a civilian passenger land vehicle or passenger and vehicle ferries and having all of the following:

1. The placement and configuration of the camera within the vehicle or ferry are solely to assist the driver or operator in the safe operation of the vehicle or ferry;

2. Is only operable when installed in any of the following:

a. The civilian passenger land vehicle for which it was intended and the vehicle weighs less than 4,500 kg (gross vehicle weight);

b. The passenger and vehicle ferry for which it was intended and having a length overall (LOA) 65 m or greater; or

c. A ''specially designed'', authorized maintenance test facility; and

3. Incorporates an active mechanism that forces the camera not to function when it is removed from the vehicle for which it was intended;

c. Limited by design to have a maximum ''radiant sensitivity'' of 10 mA/W or less for wavelengths exceeding 760 nm, having all of the following:

1. Incorporating a response limiting mechanism designed not to be removed or modified; and

2. Incorporates an active mechanism that forces the camera not to function when the response limiting mechanism is removed; and

3. Not ''specially designed'' or modified for underwater use; or

d. Having all of the following:

1. Not incorporating a 'direct view' or electronic image display;

2. Has no facility to output a viewable image of the detected field of view;

3. The ''focal plane array'' is only operable when installed in the camera for which it was intended; and

4. The ''focal plane array'' incorporates an active mechanism that forces it to be permanently inoperable when removed from the camera for which it was intended.

Note: When necessary, details of the item will be provided, upon request, to the Bureau of Industry and Security in order to ascertain compliance with the conditions described in Note 4 above.

b.5. Imaging cameras incorporating solid-state detectors specified by 6A002.a.1.

6A004 Optical equipment and "components, " as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 2.
AT applies to entire entry	AT Column 1.

REPORTING REQUIREMENTS See §743.1 of the EAR for reporting requirements for exports under License Exceptions, and Validated End-User authorizations

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: $3000

GBS: Yes for 6A004.a.1, a.2, a.4, b, and d.2.

CIV: Yes for 6A004.a.1, a.2, a.4, b, and d.2.

SPECIAL CONDITIONS FOR STA

STA: Paragraph (c)(2) of License Exception STA may not be used to ship any commodity in 6A004.c or .d to any of the eight destinations in §740.20(c)(2) of the EAR.

LIST OF ITEMS CONTROLLED

Related Controls: (1) For optical mirrors or 'aspheric optical elements' ''specially designed'' for lithography ''equipment,'' see ECCN 3B001. (2) See USML Category XII(e) for gimbals ''subject to the ITAR.'' (3) See also 6A994.

Items: a. Optical mirrors (reflectors) as follows:

TECHNICAL NOTE: *For the purpose of 6A004.a, Laser Induced Damage Threshold (LIDT) is measured according to ISO 21254–1:2011.*

a.1. ''Deformable mirrors'' having an active optical aperture greater than 10 mm and having any of the following, and specially designed components therefor:

a.1.a. Having all the following:

a.1.a.1. A mechanical resonant frequency of 750 Hz or more; *and*

a.1.a.2. More than 200 actuators; *or*

a.1.b. A Laser Induced Damage Threshold (LIDT) being any of the following:

a.1.b.1. Greater than 1 kW/cm^2 using a ''CW laser''; *or*

a.1.b.2. Greater than 2 J/cm^2 using 20 ns ''laser'' pulses at 20 Hz repetition rate;

a.2. Lightweight monolithic mirrors having an average ''equivalent density'' of less than 30 kg/m^2 and a total mass exceeding 10 kg;

a.3. Lightweight ''composite'' or foam mirror structures having an average ''equivalent density'' of less than 30 kg/m^2 and a total mass exceeding 2 kg;

Note: 6A004.a.2 and 6A004.a.3 do not apply to mirrors ''specially designed'' to direct solar radiation for terrestrial heliostat installations.

a.4. Mirrors specially designed for beam steering mirror stages specified in 6A004.d.2.a with a flatness of λ/10 or better (λ is equal to 633 nm) and having any of the following:

a.4.a. Diameter or major axis length greater than or equal to 100 mm; *or*

a.4.b. Having all of the following:

a.4.b.1. Diameter or major axis length greater than 50 mm but less than 100 mm; *and*

a.4.b.2. A Laser Induced Damage Threshold (LIDT) being any of the following:

a.4.b.2.a. Greater than 10 kW/cm2 using a ''CW laser''; *or*

a.4.b.2.b. Greater than 20 J/cm2 using 20 ns ''laser'' pulses at 20 Hz repetition rate;

N.B. For optical mirrors specially designed for lithography equipment, see 3B001.

b. Optical ''components'' made from zinc selenide (ZnSe) or zinc sulphide (ZnS) with transmission in the wavelength range exceeding 3,000 nm but not exceeding 25,000 nm and having any of the following:

b.1. Exceeding 100 cm^3 in volume; *or*

b.2. Exceeding 80 mm in diameter or length of major axis and 20 mm in thickness (depth);

c. ''Space-qualified'' ''components'' for optical systems, as follows:

c.1. ''Components'' lightweighted to less than 20% ''equivalent density'' compared with a solid blank of the same aperture and thickness;

c.2. Raw substrates, processed substrates having surface coatings (single-layer or multi-layer, metallic or dielectric, conducting, semiconducting or insulating) or having protective films;

c.3. Segments or assemblies of mirrors designed to be assembled in space into an optical system with a collecting aperture equivalent to or larger than a single optic 1 m in diameter;

c.4. ''Components'' manufactured from ''composite'' materials having a coefficient of linear thermal expansion equal to or less than 5×10^{-6} in any coordinate direction;

d. Optical control equipment as follows:

d.1. Equipment ''specially designed'' to maintain the surface figure or orientation of the ''space-qualified'' ''components'' controlled by 6A004.c.1 or 6A004.c.3;

d.2. Steering, tracking, stabilisation and resonator alignment equipment as follows:

d.2.a. Beam steering mirror stages designed to carry mirrors having diameter or major axis length greater than 50 mm and having all of the following, and specially designed electronic control equipment therefor:

d.2.a.1. A maximum angular travel of ±26 mrad or more;

d.2.a.2. A mechanical resonant frequency of 500 Hz or more; *and*

d.2.a.3. An angular ''accuracy'' of 10 μrad (microradians) or less (better);

d.2.b. Resonator alignment equipment having bandwidths equal to or more than 100 Hz and an ''accuracy'' of 10 μrad or less (better);

d.3. Gimbals having all of the following:

d.3.a. A maximum slew exceeding 5°;

d.3.b. A bandwidth of 100 Hz or more;

d.3.c. Angular pointing errors of 200 μrad (microradians) or less; and

d.3.d. Having any of the following:

d.3.d.1. Exceeding 0.15 m but not exceeding 1 m in diameter or major axis length and capable of angular accelerations exceeding 2 rad (radians)/s^2; or

d.3.d.2. Exceeding 1 m in diameter or major axis length and capable of angular accelerations exceeding 0.5 rad (radians)/s^2;

d.4. [Reserved]

e. 'Aspheric optical elements' having all of the following:

e.1. Largest dimension of the optical-aperture greater than 400 mm;

e.2. Surface roughness less than 1 nm (rms) for sampling lengths equal to or greater than 1 mm; *and*

e.3. Coefficient of linear thermal expansion's absolute magnitude less than 3×10^{-6}/K at 25 °C.

Technical Note: 1. [See Related Definitions section of this ECCN]

2. Manufacturers are not required to measure the surface roughness listed in 6A004.e.2 unless the optical element was designed or manufactured with the intent to meet, or exceed, the control parameter.

Note: 6A004.e does not control 'aspheric optical elements' having any of the following:

a. Largest optical-aperture dimension less than 1 m and focal length to aperture ratio equal to or greater than 4.5:1;

b. Largest optical-aperture dimension equal to or greater than 1 m and focal length to aperture ratio equal to or greater than 7:1;

c. Designed as Fresnel, flyeye, stripe, prism or diffractive optical elements;

d. Fabricated from borosilicate glass having a coefficient of linear thermal expansion greater than $2.5 \times 10^{-6/K}$ at 25 °C; or

e. An x-ray optical element having inner mirror capabilities (e.g., tube-type mirrors).

6A005 "Lasers," "components" and optical equipment, as follows (see List of Items Controlled), excluding items that are subject to the export licensing authority of the Nuclear Regulatory Commission (see 10 CFR part 110).

LICENSE REQUIREMENTS

Reason for Control: NS, NP, AT

Control(s)	Country chart (see Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 2
NP applies to lasers controlled by 6A005.a.2, a.3, a.4, b.2.b, b.3, b.4, b.6.c, c.1.b, c.2.b, d.2, d.3.c, or d.4.c that meet or exceed the technical parameters described in 6A205.	NP Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A for NP items $3000 for all other items

GBS: Neodymium-doped (other than glass) ''lasers'' controlled by 6A005.b.6.d.2 (except 6A005.b.6.d.2.b) that have an output wavelength exceeding 1,000 nm, but not exceeding 1,100 nm, and an average or CW output power not exceeding 2kW, and operate in a pulse-excited, non- ''Q-switched'' multiple-transverse mode, or in a continuously excited, multiple-transverse mode; Dye and Liquid Lasers controlled by 6A005.c.1, c.2 and c.3, except for a pulsed single longitudinal mode oscillator having an average output power exceeding 1 W and a repetition rate exceeding 1 kHz if the ''pulse duration'' is less than 100 ns; CO ''lasers'' controlled by 6A005.d.2 having a CW maximum rated single or multimode output power not exceeding 10 kW; CO_2 or CO/CO_2 ''lasers'' controlled by 6A005.d.3 having an output wavelength in the range from 9,000 to 11,000 nm and having a pulsed output not exceeding 2 J per pulse and a maximum rated average single or multimode output power not exceeding 5 kW; CO_2 ''lasers'' controlled by 6A005.d.3 that operate in CW multiple-transverse mode, and having a CW output power not exceeding 15kW; and 6A005.f.1.

CIV: Neodymium-doped (other than glass) ''lasers'' controlled by 6A005.b.6.d.2 (except 6A005.b.6.d.2.b) that have an output wavelength exceeding 1,000 nm, but not exceeding 1,100 nm, and an average or CW output power not exceeding 2kW, and operate in a pulse-excited, non- ''Q-switched'' multiple-transverse mode, or in a continuously excited, multiple-transverse mode; Dye and Liquid Lasers controlled by 6A005.c.1, c.2 and c.3, except for a pulsed single longitudinal mode oscillator having an average output power exceeding 1 W and a repetition rate exceeding 1 kHz if the ''pulse duration'' is less than 100 ns; CO ''lasers'' controlled by 6A005.d.2 having a CW maximum rated single or multimode output power not exceeding 10 kW; CO_2 or CO/CO_2 ''lasers'' controlled by 6A005.d.3 having an output wavelength in the range from 9,000 to 11,000 nm and having a pulsed output not exceeding 2 J per pulse and a maximum rated average single or multimode output power not exceeding 5 kW; CO_2 ''lasers'' controlled by 6A005.d.3 that operate in CW multiple-transverse mode, and having a CW output power not exceeding 15kW; and 6A005.f.1.

LIST OF ITEMS CONTROLLED

Related Controls: (1) See ECCN 6D001 for ''software'' for items controlled under this entry. (2) See ECCNs 6E001 (''development''), 6E002 (''production''), and 6E201 (''use'') for technology for items controlled under this entry. (3) Also see ECCNs 6A205 and 6A995. (4) See ECCN 3B001 for excimer ''lasers'' ''specially designed'' for lithography equipment. (5) ''Lasers'' ''specially designed'' or prepared for use in isotope separation are subject to the export licensing authority of the Nuclear Regulatory Commission (see 10 CFR part 110). (6) See USML Category XII(b) and (e) for laser systems or lasers subject to the ITAR. (7) See USML Category XVIII for certain laser-based directed energy weapon systems, equipment, and components subject to the ITAR.

Related Definitions: (1) 'Wall-plug efficiency' is defined as the ratio of ''laser'' output power (or ''average output power'') to total electrical input power required to operate the ''laser'', including the power supply/conditioning and thermal conditioning/heat exchanger, see 6A005.a.6.b.1 and 6A005.b.6; (2) 'Non-repetitive pulsed' refers to ''lasers'' that produce either a single output pulse or that have a time interval between pulses exceeding one minute, see Note 2 of 6A005 and 6A005.d.6.

Items:

Note 1: Pulsed ''lasers'' include those that run in a continuous wave (CW) mode with pulses superimposed.

Note 2: Excimer, semiconductor, chemical, CO, CO_2, and 'non-repetitive pulsed' Nd:glass ''lasers'' are only specified by 6A005.d.

Technical Note: 'Non-repetitive pulsed' refers to ''lasers'' that produce either a single output pulse or that have a time interval between pulses exceeding one minute.

Note 3: 6A005 includes fiber ''lasers''.

Note 4: The control status of ''lasers'' incorporating frequency conversion (i.e., wavelength change) by means other than one ''laser'' pumping another ''laser'' is determined by applying the control parameters for both the output of the source ''laser'' and the frequency-converted optical output.

Note 5: 6A005 does not control ''lasers'' as follows:

a. Ruby with output energy below 20 J;

b. Nitrogen;

c. Krypton.

a. Non-''tunable'' continuous wave ''(CW) lasers'' having any of the following:

a.1. Output wavelength less than 150 nm and output power exceeding 1W;

a.2. Output wavelength of 150 nm or more but not exceeding 510 nm and output power exceeding 30 W;

Note: 6A005.a.2 does not control Argon ''lasers'' having an output power equal to or less than 50 W.

a.3. Output wavelength exceeding 510 nm but not exceeding 540 nm and any of the following:

a.3.a. Single transverse mode output and output power exceeding 50 W; or

a.3.b. Multiple transverse mode output and output power exceeding 150 W;

a.4. Output wavelength exceeding 540 nm but not exceeding 800 nm and output power exceeding 30 W;

a.5. Output wavelength exceeding 800 nm but not exceeding 975 nm and any of the following:

a.5.a. Single transverse mode output and output power exceeding 50 W; or

a.5.b. Multiple transverse mode output and output power exceeding 80 W;

a.6. Output wavelength exceeding 975 nm but not exceeding 1,150 nm and any of the following;

a.6.a. Single transverse mode output and output power exceeding 200 W; *or*

a.6.b. Multiple transverse mode output and any of the following:

a.6.b.1. 'Wall-plug efficiency' exceeding 18% and output power exceeding 500 W; or

a.6.b.2. Output power exceeding 2 kW;

Note 1: 6A005.a.6.b does not control multiple transverse mode, industrial ''lasers'' with output power exceeding 2kW and not exceeding 6 kW with a total mass greater than 1,200 kg. For the purpose of this note, total mass includes all ''components'' required to operate the ''laser,'' e.g., ''laser,'' power supply, heat exchanger, but excludes external optics for beam conditioning and/or delivery.

Note 2: 6A005.a.6.b does not apply to multiple transverse mode, industrial ''lasers'' having any of the following:

a. Output power exceeding 500 W but not exceeding 1 kW and having all of the following:

1. Beam Parameter Product (BPP) exceeding 0.7 mm•mrad; and

2. 'Brightness' not exceeding 1024 W/(mm•mrad);[2]

b. Output power exceeding 1 kW but not exceeding 1.6 kW and having a BPP exceeding 1.25 mm•mrad;

c. Output power exceeding 1.6 kW but not exceeding 2.5 kW and having a BPP exceeding 1.7 mm•mrad;

d. Output power exceeding 2.5 kW but not exceeding 3.3 kW and having a BPP exceeding 2.5 mm•mrad;

e. Output power exceeding 3.3 kW but not exceeding 4 kW and having a BPP exceeding 3.5 mm•mrad;

f. Output power exceeding 4 kW but not exceeding 5 kW and having a BPP exceeding 5 mm•mrad;

g. Output power exceeding 5 kW but not exceeding 6 kW and having a BPP exceeding 7.2 mm•mrad;

h. Output power exceeding 6 kW but not exceeding 8 kW and having a BPP exceeding 12 mm•mrad; or

i. Output power exceeding 8 kW but not exceeding 10 kW and having a BPP exceeding 24 mm•mrad;

Technical Note: For the purpose of 6A005.a.6.b, Note 2 (a)(2), 'brightness' is defined as the output power of the ''laser'' divided by the squared Beam Parameter Product (BPP), i.e., (output power)/BPP[2].

a.7. Output wavelength exceeding 1,150 nm but not exceeding 1,555 nm and any of the following:

a.7.a. Single transverse mode and output power exceeding 50 W; or

a.7.b. Multiple transverse mode and output power exceeding 80 W; or

a.8. Output wavelength exceeding 1,555 nm and output power exceeding 1 W;

b. Non-''tunable'' ''pulsed lasers'' having any of the following;

b.1. Output wavelength less than 150 nm and any of the following:

b.1.a. Output energy exceeding 50 mJ per pulse and ''peak power'' exceeding 1 W; or

b.1.b. ''Average output power'' exceeding 1 W;

b.2. Output wavelength of 150 nm or more but not exceeding 510 nm and any of the following:

b.2.a. Output energy exceeding 1.5 J per pulse and ''peak power'' exceeding 30 W; or

b.2.b. ''Average output power'' exceeding 30 W;

Note: 6A005.b.2.b does not control Argon ''lasers'' having an ''average output power'' equal to or less than 50 W.

b.3. Output wavelength exceeding 510 nm, but not exceeding 540 nm and any of the following:

b.3.a. Single transverse mode output and any of the following:

b.3.a.1. Output energy exceeding 1.5 J per pulse and ''peak power'' exceeding 50 W; *or*

b.3.a.2. ''Average output power'' exceeding 50 W; *or*

b.3.b. Multiple transverse mode output and any of the following:

b.3.b.1. Output energy exceeding 1.5 J per pulse and ''peak power'' exceeding 150 W; *or*

b.3.b.2. ''Average output power'' exceeding 150 W;

b.4. Output wavelength exceeding 540 nm but not exceeding 800 nm and any of the following:

b.4.a. ''Pulse duration'' less than 1 ps and any of the following:

b.4.a.1. Output energy exceeding 0.005 J per pulse and ''peak power'' exceeding 5 GW; *or*

b.4.a.2. ''Average output power'' exceeding 20 W; *or*

b.4.b. ''Pulse duration'' equal to or exceeding 1 ps and any of the following:

b.4.b.1. Output energy exceeding 1.5 J per pulse and ''peak power'' exceeding 30 W; *or*

b.4.b.2. ''Average output power'' exceeding 30 W;

b.5. Output wavelength exceeding 800 nm but not exceeding 975 nm and any of the following:

b.5.a. ''Pulse duration'' less than 1ps and any of the following:

b.5.a.1. Output energy exceeding 0.005 J per pulse and ''peak power'' exceeding 5 GW; *or*

b.5.a.2. Single transverse mode output and ''average output power'' exceeding 20 W;

b.5.b. ''Pulse duration'' equal to or exceeding 1 ps and not exceeding 1 μs and any of the following:

b.5.b.1. Output energy exceeding 0.5 J per pulse and ''peak power'' exceeding 50 W;

b.5.b.2. Single transverse mode output and ''average output power'' exceeding 20 W; *or*

b.5.b.3. Multiple transverse mode output and ''average output power'' exceeding 50 W; *or*

b.5.c. ''Pulse duration'' exceeding 1 μs and any of the following:

b.5.c.1. Output energy exceeding 2 J per pulse and ''peak power'' exceeding 50 W;

b.5.c.2. Single transverse mode output and ''average output power'' exceeding 50 W; *or*

b.5.c.3. Multiple transverse mode output and ''average output power'' exceeding 80 W.

b.6. Output wavelength exceeding 975 nm but not exceeding 1,150 nm and any of the following:

b.6.a. ''Pulse duration'' of less than 1 ps, and any of the following:

b.6.a.1. Output ''peak power'' exceeding 2 GW per pulse;

b.6.a.2. ''Average output power'' exceeding 30 W; *or*

b.6.a.3. Output energy exceeding 0.002 J per pulse;

b.6.b. ''Pulse duration'' equal to or exceeding 1 ps and less than 1 ns, and any of the following:

b.6.b.1. Output ''peak power'' exceeding 5 GW per pulse;

b.6.b.2. ''Average output power'' exceeding 50 W; *or*

b.6.b.3. Output energy exceeding 0.1 J per pulse;

b.6.c. ''Pulse duration'' equal to or exceeding 1 ns but not exceeding 1 μs and any of the following:

b.6.c.1. Single transverse mode output and any of the following:

b.6.c.1.a. ''Peak power'' exceeding 100 MW;

b.6.c.1.b. ''Average output power'' exceeding 20 W limited by design to a maximum pulse repetition frequency less than or equal to 1 kHz;

b.6.c.1.c. 'Wall-plug efficiency' exceeding 12%, ''average output power'' exceeding 100 W and capable of operating at a pulse repetition frequency greater than 1 kHz;

b.6.c.1.d. ''Average output power'' exceeding 150 W and capable of operating at a pulse repetition frequency greater than 1 kHz; *or*

b.6.c.1.e. Output energy exceeding 2 J per pulse; *or*

b.6.c.2. Multiple transverse mode output and any of the following:

b.6.c.2.a. ''Peak power'' exceeding 400 MW;

b.6.c.2.b. 'Wall-plug efficiency' exceeding 18% and ''average output power'' exceeding 500 W;

b.6.c.2.c. ''Average output power'' exceeding 2 kW; or

b.6.c.2.d. Output energy exceeding 4 J per pulse; *or*

b.6.d. ''Pulse duration'' exceeding 1 μs and any of the following:

b.6.d.1. Single transverse mode output and any of the following:

b.6.d.1.a. ''Peak power'' exceeding 500 kW;

b.6.d.1.b. 'Wall-plug efficiency' exceeding 12% and ''average output power'' exceeding 100 W; *or*

b.6.d.1.c. ''Average output power'' exceeding 150 W; *or*

b.6.d.2. Multiple transverse mode output and any of the following:

b.6.d.2.a. ''Peak power'' exceeding 1 MW;

b.6.d.2.b. 'Wall-plug efficiency' exceeding 18% and ''average output power'' exceeding 500 W; *or*

b.6.d.2.c. ''Average output power'' exceeding 2 kW;

b.7. Output wavelength exceeding 1,150 nm but not exceeding 1,555 nm and any of the following:

b.7.a. ''Pulse duration'' not exceeding 1 μs and any of the following:

b.7.a.1. Output energy exceeding 0.5 J per pulse and ''peak power'' exceeding 50 W;

b.7.a.2. Single transverse mode output and ''average output power'' exceeding 20 W; *or*

b.7.a.3. Multiple transverse mode output and ''average output power'' exceeding 50 W; *or*

b.7.b. ''Pulse duration'' exceeding 1 μs and any of the following:

b.7.b.1. Output energy exceeding 2 J per pulse and ''peak power'' exceeding 50 W;

b.7.b.2. Single transverse mode output and ''average output power'' exceeding 50 W; *or*

b.7.b.3. Multiple transverse mode output and ''average output power'' exceeding 80 W; *or*

b.8. Output wavelength exceeding 1,555 nm and any of the following:

b.8.a. Output energy exceeding 100 mJ per pulse and ''peak power'' exceeding 1 W; *or*

b.8.b. ''Average output power'' exceeding 1 W;

c. ''Tunable'' lasers having any of the following:

c.1. Output wavelength less than 600 nm and any of the following:

c.1.a. Output energy exceeding 50 mJ per pulse and ''peak power'' exceeding 1 W; *or*

c.1.b. Average or CW output power exceeding 1W;

Note: 6A005.c.1 does not apply to dye ''lasers'' or other liquid ''lasers,'' having a multimode output and a wavelength of 150 nm or more but not exceeding 600 nm and all of the following:

1. Output energy less than 1.5 J per pulse or a ''peak power'' less than 20 W; and

2. Average or CW output power less than 20 W.

c.2. Output wavelength of 600 nm or more but not exceeding 1,400 nm, and any of the following:

c.2.a. Output energy exceeding 1 J per pulse and ''peak power'' exceeding 20 W; *or*

c.2.b. Average or CW output power exceeding 20 W; *or*

c.3. Output wavelength exceeding 1,400 nm and any of the following:

c.3.a. Output energy exceeding 50 mJ per pulse and ''peak power'' exceeding 1 W; *or*

c.3.b. Average or CW output power exceeding 1 W;

d. Other ''lasers'', not controlled by 6A005.a, 6A005.b, or 6A005.c as follows:

d.1. Semiconductor ''lasers'' as follows:

Note: 1. 6A005.d.1 includes semiconductor ''lasers'' having optical output connectors (e.g., fiber optic pigtails).

2. The control status of semiconductor ''lasers'' ''specially designed'' for other equipment is determined by the control status of the other equipment.

d.1. Semiconductor ''lasers'' as follows:

d.1.a. Individual single-transverse mode semiconductor ''lasers'' having any of the following:

d.1.a.1. Wavelength equal to or less than 1,510 nm and average or CW output power, exceeding 1.5 W; *or*

d.1.a.2. Wavelength greater than 1,510 nm and average or CW output power, exceeding 500 mW;

d.1.b. Individual, multiple-transverse mode semiconductor ''lasers'' having any of the following:

d.1.b.1. Wavelength of less than 1,400 nm and average or CW output power, exceeding 15 W;

d.1.b.2. Wavelength equal to or greater than 1,400 nm and less than 1,900 nm and average or CW output power, exceeding 2.5 W; *or*

d.1.b.3. Wavelength equal to or greater than 1,900 nm and average or CW output power, exceeding 1 W;

d.1.c. Individual semiconductor ''laser'' 'bars' having any of the following:

d.1.c.1. Wavelength of less than 1,400 nm and average or CW output power, exceeding 100 W;

d.1.c.2. Wavelength equal to or greater than 1,400 nm and less than 1,900 nm and average or CW output power, exceeding 25 W; *or*

d.1.c.3. Wavelength equal to or greater than 1,900 nm and average or CW output power, exceeding 10 W;

d.1.d. Semiconductor ''laser'' 'stacked arrays' (two-dimensional arrays) having any of the following:

d.1.d.1. Wavelength less than 1,400 nm and having any of the following:

d.1.d.1.a. Average or CW total output power less than 3 kW and having average or CW output 'power density' greater than 500 W/cm^2;

d.1.d.1.b. Average or CW total output power equal to or exceeding 3 kW but less than or equal to 5 kW, and having average or CW output 'power density' greater than 350W/cm^2;

d.1.d.1.c. Average or CW total output power exceeding 5 kW;

d.1.d.1.d. Peak pulsed 'power density' exceeding 2,500 W/cm^2; *or*

Note: 6A005.d.1.d.1.d does not apply to epitaxially-fabricated monolithic devices.

d.1.d.1.e. Spatially coherent average or CW total output power, greater than 150 W;

d.1.d.2. Wavelength greater than or equal to 1,400 nm but less than 1,900 nm, and having any of the following:

d.1.d.2.a. Average or CW total output power less than 250 W and average or CW output 'power density' greater than 150 W/cm^2;

d.1.d.2.b. Average or CW total output power equal to or exceeding 250 W but less than or equal to 500 W, and having average or CW output 'power density' greater than 50W/cm^2;

d.1.d.2.c. Average or CW total output power exceeding 500 W;

d.1.d.2.d. Peak pulsed 'power density' exceeding 500 W/cm^2; *or*

Note: 6A005.d.1.d.2.d does not apply to epitaxially-fabricated monolithic devices.

d.1.d.2.e. Spatially coherent average or CW total output power, exceeding 15 W;

d.1.d.3. Wavelength greater than or equal to 1,900 nm and having any of the following:

d.1.d.3.a. Average or CW output 'power density' greater than 50 W/cm^2;

d.1.d.3.b. Average or CW output power greater than 10 W; *or*

d.1.d.3.c. Spatially coherent average or CW total output power, exceeding 1.5 W; or

d.1.d.4. At least one ''laser'' 'bar' specified by 6A005.d.1.c;

Technical Note: For the purposes of 6A005.d.1.d, 'power density' means the total ''laser'' output power divided by the emitter surface area of the 'stacked array'.

d.1.e. Semiconductor ''laser'' 'stacked arrays', other than those specified by 6A005.d.1.d, having all of the following:

d.1.e.1. ''Specially designed'' or modified to be combined with other 'stacked arrays' to form a larger 'stacked array'; and

d.1.e.2. Integrated connections, common for both electronics and cooling;

Note 1: 'Stacked arrays', formed by combining semiconductor ''laser'' 'stacked arrays' specified by 6A005.d.1.e, that are not designed to be further combined or modified are specified by 6A005.d.1.d.

Note 2: 'Stacked arrays', formed by combining semiconductor ''laser'' 'stacked arrays' specified by 6A005.d.1.e, that are designed to be further combined or modified are specified by 6A005.d.1.e.

Note 3: 6A005.d.1.e does not apply to modular assemblies of single 'bars' designed to be fabricated into end-to-end stacked linear arrays.

Technical Notes: 1. Semiconductor ''lasers'' are commonly called ''laser'' diodes.

2. A 'bar' (also called a semiconductor ''laser'' 'bar', a ''laser'' diode 'bar' or diode 'bar') consists of multiple semiconductor ''lasers'' in a one-dimensional array.

3. A 'stacked array' consists of multiple 'bars' forming a two-dimensional array of semiconductor ''lasers''.

d.2. Carbon monoxide (CO) ''lasers'' having any of the following:

d.2.a. Output energy exceeding 2 J per pulse and ''peak power'' exceeding 5 kW; *or*

d.2.b. Average or CW output power, exceeding 5 kW;

d.3. Carbon dioxide (CO_2) ''lasers'' having any of the following:

d.3.a. CW output power exceeding 15 kW;

d.3.b. Pulsed output with ''pulse duration'' exceeding 10 μs and any of the following:

d.3.b.1. ''Average output power'' exceeding 10 kW; *or*

d.3.b.2. ''Peak power'' exceeding 100 kW; *or*

d.3.c. Pulsed output with a ''pulse duration'' equal to or less than 10 μs and any of the following:

d.3.c.1. Pulse energy exceeding 5 J per pulse; *or*

d.3.c.2. ''Average output power'' exceeding 2.5 kW;

d.4. Excimer ''lasers'' having any of the following:

d.4.a. Output wavelength not exceeding 150 nm and any of the following:

d.4.a.1. Output energy exceeding 50 mJ per pulse; *or*

d.4.a.2. ''Average output power'' exceeding 1 W;

d.4.b. Output wavelength exceeding 150 nm but not exceeding 190 nm and any of the following:

d.4.b.1. Output energy exceeding 1.5 J per pulse; *or*

d.4.b.2. ''Average output power'' exceeding 120 W;

d.4.c. Output wavelength exceeding 190 nm but not exceeding 360 nm and any of the following:

d.4.c.1. Output energy exceeding 10 J per pulse; *or*

d.4.c.2. ''Average output power'' exceeding 500 W; *or*

d.4.d. Output wavelength exceeding 360 nm and any of the following:

d.4.d.1. Output energy exceeding 1.5 J per pulse; *or*

d.4.d.2. ''Average output power'' exceeding 30 W;

Note: For excimer ''lasers'' ''specially designed'' for lithography equipment, see 3B001.

d.5. ''Chemical lasers'', as follows:

d.5.a. Hydrogen Fluoride (HF) ''lasers'';

d.5.b. Deuterium Fluoride (DF) ''lasers'';

d.5.c. ''Transfer lasers'', as follows:

d.5.c.1. Oxygen Iodine (O2-I) ''lasers'';

d.5.c.2. Deuterium Fluoride-Carbon dioxide (DF-CO2) ''lasers'';

d.6. ''Non-repetitive pulsed'' Neodymium (Nd) glass ''lasers'', having any of the following:

d.6.a. A ''pulse duration'' not exceeding 1 μs and an output energy exceeding 50 J per pulse; or

d.6.b. A ''pulse duration'' exceeding 1 μs and an output energy exceeding 100 J per pulse;

e. ''Components'' as follows:

e.1. Mirrors cooled either by ' active cooling' or by heat pipe cooling;

Technical Note: Active cooling is a cooling technique for optical ''components'' using flowing fluids within the subsurface (nominally less than 1 mm below the optical surface) of the optical component to remove heat from the optic.

e.2. Optical mirrors or transmissive or partially transmissive optical or electro-optical-''components,'' other than fused tapered fiber combiners and Multi-Layer Dielectric gratings (MLDs), ''specially designed'' for use with controlled ''lasers'';

Note to 6A005.e.2: Fiber combiners and MLDs are specified by 6A005.e.3.

e.3. Fiber ''laser'' ''components'' as follows:

e.3.a. Multimode to multimode fused tapered fiber combiners having all of the following:

e.3.a.1. An insertion loss better (less) than or equal to 0.3 dB maintained at a rated total average or CW output power (excluding output power transmitted through the single mode core if present) exceeding 1,000 W; *and*

e.3.a.2. Number of input fibers equal to or greater than 3;

e.3.b. Single mode to multimode fused tapered fiber combiners having all of the following:

e.3.b.1. An insertion loss better (less) than 0.5 dB maintained at a rated total average or CW output power exceeding 4,600 W;

e.3.b.2. Number of input fibers equal to or greater than 3; *and*

e.3.b.3. Having any of the following:

e.3.b.3.a. A Beam Parameter Product (BPP) measured at the output not exceeding 1.5 mm mrad for a number of input fibers less than or equal to 5; *or*

e.3.b.3.b. A BPP measured at the output not exceeding 2.5 mm mrad for a number of input fibers greater than 5;

e.3.c. MLDs having all of the following:

e.3.c.1. Designed for spectral or coherent beam combination of 5 or more fiber ''lasers;'' *and*

e.3.c.2. CW ''Laser'' Induced Damage Threshold (LIDT) greater than or equal to 10 kW/cm^2;

f. Optical equipment, as follows:

N.B.: For shared aperture optical elements, capable of operating in ''Super-High Power Laser'' (''SHPL'') applications, see the U.S. Munitions List (22 CFR part 121).

f.1. Dynamic wavefront (phase) measuring equipment capable of mapping at least 50 positions on a beam wavefront having any the following:

f.1.a. Frame rates equal to or more than 100 Hz and phase discrimination of at least 5% of the beam's wavelength; or

f.1.b. Frame rates equal to or more than 1,000 Hz and phase discrimination of at least 20% of the beam's wavelength;

f.2. ''Laser'' diagnostic equipment capable of measuring ''SHPL'' system angular beam steering errors of equal to or less than 10 μrad;

f.3. Optical equipment and ''components,'' ''specially designed'' for a phased-array ''SHPL'' system for coherent beam combination to an ''accuracy'' of λ/10 at the designed wavelength, or 0.1 μm, whichever is the smaller;

f.4. Projection telescopes ''specially designed'' for use with ''SHPL'' systems;

g. ''Laser acoustic detection equipment'' having all of the following:

g.1. CW ''laser'' output power greater than or equal to 20 mW;

g.2. ''Laser'' frequency stability equal to or better (less) than 10 MHz;

g.3. ''Laser'' wavelengths equal to or exceeding 1,000 nm but not exceeding 2,000 nm;

g.4. Optical system resolution better (less) than 1 nm; *and*

g.5. Optical Signal to Noise ratio equal or exceeding to 10^3.

Technical Note: 'Laser acoustic detection equipment' is sometimes referred to as a ''Laser'' Microphone or Particle Flow Detection Microphone.

6A006 "Magnetometers", "magnetic gradiometers", "intrinsic magnetic gradiometers", underwater electric field sensors, "compensation systems", and "specially designed" "components" therefor, as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 2
AT applies to entire entry	AT Column 1

REPORTING REQUIREMENTS See §743.1 of the EAR for reporting requirements for exports under License Exceptions, and Validated End-User authorizations

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: $1500, N/A for 6A006.a.1; ''Magnetometers'' and subsystems defined in 6A006.a.2 using optically pumped or nuclear precession (proton/Overhauser) having a ''sensitivity'' lower (better) than 2 pT (rms) per square root Hz; 6A006.d, and 6A006.e.

GBS: N/A

CIV: N/A

SPECIAL CONDITIONS FOR STA

STA: License Exception STA may not be used to ship any commodity in:

6A006.a.1; or

6A006.a.2; or

6A006.c.1 ''Magnetic gradiometers'' using multiple ''magnetometers'' specified by 6A006.a.1 or 6.A006.a.2; or 6A006.d or .e (only for underwater receivers incorporating magnetometers specified in 6A006.a.1 or 6A006.a.2) to any of the destinations listed in Country Group A:6 (See Supplement No. 1 to part 740 of the EAR)

LIST OF ITEMS CONTROLLED

Related Controls: See also 6A996. This entry does not control instruments ''specially designed'' for fishery applications or biomagnetic measurements for medical diagnostics.

Related Definitions: N/A

Items: a. ''Magnetometers'' and subsystems, as follows:

a.1. ''Magnetometers'' using ''superconductive'' (SQUID) ''technology'' and having any of the following:

a.1.a. SQUID systems designed for stationary operation, without ''specially designed'' subsystems designed to reduce in-motion noise, and having a 'sensitivity' equal to or lower (better) than 50 fT (rms) per square root Hz at a frequency of 1 Hz; or

a.1.b. SQUID systems having an in-motion-magnetometer 'sensitivity' lower (better) than 20 pT (rms) per square root Hz at a frequency of 1 Hz and ''specially designed'' to reduce in-motion noise;

a.2. ''Magnetometers'' using optically pumped or nuclear precession (proton/Overhauser) ''technology'' having a 'sensitivity' lower (better) than 20 pT (rms) per square root Hz at a frequency of 1 Hz;

a.3. ''Magnetometers'' using fluxgate ''technology'' having a 'sensitivity' equal to or lower (better) than 10 pT (rms) per square root Hz at a frequency of 1 Hz;

a.4. Induction coil ''magnetometers'' having a 'sensitivity' lower (better) than any of the following:

a.4.a. 0.05 nT (rms)/square root Hz at frequencies of less than 1 Hz;

a.4.b. 1×10^{-3} nT (rms)/square root Hz at frequencies of 1 Hz or more but not exceeding 10 Hz; or

a.4.c. 1×10^{-4} nT (rms)/square root Hz at frequencies exceeding 10 Hz;

a.5. Fiber optic ''magnetometers'' having a 'sensitivity' lower (better) than 1 nT (rms) per square root Hz;

b. Underwater electric field sensors having a 'sensitivity' lower (better) than 8 nanovolt per meter per square root Hz when measured at 1 Hz;

c. ''Magnetic gradiometers'' as follows:

c.1. ''Magnetic gradiometers'' using multiple ''magnetometers'' controlled by 6A006.a;

c.2. Fiber optic ''intrinsic magnetic gradiometers'' having a magnetic gradient field 'sensitivity' lower (better) than 0.3 nT/m (rms) per square root Hz;

c.3. ''Intrinsic magnetic gradiometers'', using ''technology'' other than fiber-optic ''technology'', having a magnetic gradient field 'sensitivity' lower (better) than 0.015 nT/m (rms) per square root Hz;

d. ''Compensation systems'' for magnetic and underwater electric field sensors resulting in a performance equal to or better than the control parameters of 6A006.a, 6A006.b, and 6A006.c; and

e. Underwater electromagnetic receivers incorporating magnetic field sensors specified by 6A006.a or underwater electric field sensors specified by 6A006.b.

Technical Note: For the purposes of 6A006, 'sensitivity' (noise level) is the root mean square of the device-limited noise floor which is the lowest signal that can be measured.

6A007 Gravity meters (gravimeters) and gravity gradiometers, as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, MT, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 2
MT applies to 6A007.b and .c when the accuracies in 6A007.b.1 and b.2 are met or exceeded.	MT Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: $3000; N/A for MT

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: (1) See USML Category XII(d) for certain gravity meters (gravimeters) and gravity gradiometers subject to the ITAR. (2) See also ECCNs 6A107, 6A997, and 7A611.

Related Definitions: N/A

Items: a. Gravity meters designed or modified for ground use and having a static ''accuracy'' of less (better) than 10 μGal;

Note: 6A007.a does not control ground gravity meters of the quartz element (Worden) type.

b. Gravity meters designed for mobile platforms and having all of the following:

b.1. A static ''accuracy'' of less (better) than 0.7 mGal; *and*

b.2. An in-service (operational) ''accuracy'' of less (better) than 0.7 mGal having a 'time-to-steady-state registration' of less than 2 minutes under any combination of attendant corrective compensations and motional influences;

c. Gravity gradiometers.

6A008 Radar systems, equipment and assemblies, having any of the following (see List of Items Controlled), and "specially designed" "components" therefor.

LICENSE REQUIREMENTS

Reason for Control: NS, MT, RS, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 2.
MT applies to items that are designed for airborne applications and that are usable in systems controlled for MT reasons.	MT Column 1.
RS applies to 6A008.j.1	RS Column 1.
AT applies to entire entry	AT Column 1.

REPORTING REQUIREMENTS See §743.1 of the EAR for reporting requirements for exports under License Exceptions, and Validated End-User authorizations

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: $5000; N/A for MT and for 6A008.j.1.

GBS: Yes, for 6A008.b, .c, and l.1 only.

CIV: Yes, for 6A008.b, .c, and l.1 only.

SPECIAL CONDITIONS FOR STA

STA: License Exception STA may not be used to ship any commodity in 6A008.d, 6A008.h or 6A008.k to any of the destinations listed in Country Group A:6 (See Supplement No. 1 to part 740 of the EAR).

LIST OF ITEMS CONTROLLED

Related Controls: (1) This entry does not control: Secondary surveillance radar (SSR); Car radar designed for collision prevention; Displays or monitors used for Air Traffic Control (ATC) having no more than 12 resolvable elements per mm; Meteorological (weather) radar. (2) See also ECCNs 6A108 and 6A998. ECCN 6A998 controls, *inter alia*, the Light Detection and Ranging (LIDAR) equipment excluded by the note to paragraph j of this ECCN (6A008). (3) See USML Category XII(b) for certain LIDAR, Laser Detection and Ranging (LADAR), or range-gated systems subject to the ITAR.

Related Definitions: N/A

Items:

Note: 6A008 does not control:

—Secondary surveillance radar (SSR);

—Civil Automotive Radar;

—Displays or monitors used for air traffic control (ATC);

—*Meteorological (weather) radar;*

—*Precision Approach Radar (PAR) equipment conforming to ICAO standards and employing electronically steerable linear (1-dimensional) arrays or mechanically positioned passive antennas.*

a. Operating at frequencies from 40 GHz to 230 GHz and having any of the following:

a.1. An ''average output power'' exceeding 100 mW; or

a.2. Locating ''accuracy'' of 1 m or less (better) in range and 0.2 degree or less (better) in azimuth;

b. A tunable bandwidth exceeding ±6.25% of the 'center operating frequency';

Technical Note: The 'center operating frequency' equals one half of the sum of the highest plus the lowest specified operating frequencies

c. Capable of operating simultaneously on more than two carrier frequencies;

d. Capable of operating in synthetic aperture (SAR), inverse synthetic aperture (ISAR) radar mode, or sidelooking airborne (SLAR) radar mode;

e. Incorporating electronically steerable array antennas;

f. Capable of heightfinding non-cooperative targets;

g. ''Specially designed'' for airborne (balloon or airframe mounted) operation and having Doppler ''signal processing'' for the detection of moving targets;

h. Employing processing of radar signals and using any of the following:

h.1. ''Radar spread spectrum'' techniques; *or*

h.2. ''Radar frequency agility'' techniques;

i. Providing ground-based operation with a maximum ''instrumented range'' exceeding 185 km;

Note: 6A008.i does not control:

a. Fishing ground surveillance radar;

b. Ground radar equipment ''specially designed'' for en route air traffic control, and having all of the following:

1. A maximum ''instrumented range'' of 500 km or less;

2. Configured so that radar target data can be transmitted only one way from the radar site to one or more civil ATC centers;

3. Contains no provisions for remote control of the radar scan rate from the en route ATC center; and

4. Permanently installed;

c. Weather balloon tracking radars.

j. Being ''laser'' radar or Light Detection and Ranging (LIDAR) equipment and having any of the following:

j.1. ''Space-qualified'';

j.2. Employing coherent heterodyne or homodyne detection techniques and having an angular resolution of less (better) than 20 μrad (microradians); or

j.3. Designed for carrying out airborne bathymetric littoral surveys to International Hydrographic Organization (IHO) Order 1a Standard (5th Edition February 2008) for Hydrographic Surveys or better, and using one or more ''lasers'' with a wavelength exceeding 400 nm but not exceeding 600 nm;

Note 1: LIDAR equipment ''specially designed'' for surveying is only specified by 6A008.j.3.

Note 2: 6A008.j does not apply to LIDAR equipment ''specially designed'' for meteorological observation.

Note 3: Parameters in the IHO Order 1a Standard 5th Edition February 2008 are summarized as follows:

Horizontal Accuracy (95% Confidence Level) = 5 m + 5% of depth.

Depth Accuracy for Reduced Depths (95% Confidence Level) $= \pm\sqrt{(a^2 + (b*d)^2)}$ *where:*

a = 0.5 m = constant depth error, i.e. the sum of all constant depth errors

b = 0.013 = factor of depth dependant error

*b*d = depth dependant error, i.e. the sum of all depth dependant errors*

d = depth

Feature Detection = Cubic features >2 m in depths up to 40 m; 10% of depth beyond 40 m.

k. Having ''signal processing'' sub-systems using ''pulse compression'' and having any of the following:

k.1. A ''pulse compression'' ratio exceeding 150; *or*

k.2. A compressed pulse width of less than 200 ns; *or*

Note: 6A008.k.2 does not apply to two dimensional 'marine radar' or 'vessel traffic service' radar, having all of the following:

a. ''Pulse compression'' ratio not exceeding 150;

b. Compressed pulse width of greater than 30 ns;

c. Single and rotating mechanically scanned antenna;

d. Peak output power not exceeding 250 W; and

e. Not capable of ''frequency hopping''.

l. Having data processing sub-systems and having any of the following:

l.1. ''Automatic target tracking'' providing, at any antenna rotation, the predicted target position beyond the time of the next antenna beam passage; or

Note: 6A008.l.1 does not control conflict alert capability in ATC systems, or 'marine radar'.

l.2. [Reserved]

l.3. [Reserved]

l.4. Configured to provide superposition and correlation, or fusion, of target data within six seconds from two or more ''geographically dispersed'' radar sensors to improve the aggregate performance beyond that of any single sensor specified by 6A008.f, or 6A008.i.

N.B.: See also the U.S. Munitions List (22 CFR part 121).

Note: 6A008.l does not apply to systems, equipment and assemblies designed for 'vessel traffic services'.

Technical Notes: 1. For the purposes of 6A008, 'marine radar' is a radar that is used to navigate safely at sea, inland waterways or near-shore environments.

2. For the purposes of 6A008, 'vessel traffic service' is a vessel traffic monitoring and control service similar to air traffic control for ''aircraft''.

6A102 Radiation hardened detectors, other than those controlled by 6A002, "specially designed" or modified for protecting against nuclear effects (e.g., Electromagnetic Pulse (EMP), X-rays, combined blast and thermal effects) and usable for "missiles," designed or rated to withstand radiation levels which meet or exceed a total irradiation dose of 5 × 10^5 rads (silicon).

LICENSE REQUIREMENTS

Reason for Control: MT, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
MT applies to entire entry	MT Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: In this entry, a detector is defined as a mechanical, electrical, optical or chemical device that automatically identifies and records, or registers a stimulus such as an environmental change in pressure or temperature, an electrical or electromagnetic signal or radiation from a radioactive material.

Items: The list of items controlled is contained in the ECCN heading.

6A103 Radomes designed to withstand a combined thermal shock greater than 100 cal/sq cm accompanied by a peak over pressure of greater than 50 kPa, usable in protecting "missiles" against nuclear effects (e.g., Electromagnetic Pulse (EMP), X-rays, combined blast and thermal effects), and usable for "missiles". (These items are "subject to the ITAR." See 22 CFR parts 120 through 130.)

6A107 Gravity meters (gravimeters) or gravity gradiometers, other than those controlled by 6A007, designed or modified for airborne or marine use, as follows, (see List of Items Controlled) and "specially designed" "parts" and "components" therefor.

LICENSE REQUIREMENTS

Reason for Control: MT, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
MT applies to entire entry	MT Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: See USML Category XII(d) for certain gravity meters (gravimeters) or gravity gradiometers subject to the ITAR. See also ECCN 7A611.

Related Definitions: N/A

Items: a. Gravity meters having all the following:

1. A static or operational accuracy equal to or less (better) than 0.7 milligal (mgal); and

2. A time to steady-state registration of two minutes or less.

b. Gravity gradiometers.

6A108 Radar systems and tracking systems, other than those controlled by 6A008, as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: MT, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
MT applies to entire entry	MT Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: (1) This entry does not control airborne civil weather radar conforming to international standards for civil weather radars provided that they do not incorporate any of the following: (a) Phased array antennas; (b) Frequency agility; (c) Spread spectrum; or (d) Signal processing ''specially designed'' for the tracking of vehicles. (2) Items in *6A108.a* that are ''specially designed'' or modified for ''missiles'' or for items on the U.S. Munitions List are ''subject to the ITAR'' (see 22 CFR parts 120 through 130).

Related Definitions: Laser radar systems are defined as those that embody specialized transmission, scanning, receiving and signal processing techniques for utilization of lasers for echo ranging, direction finding and discrimination of targets by location, radial speed and body reflection characteristics.

Items: a. Radar and laser radar systems designed or modified for use in ''missiles'';

Note: 6A108.a includes the following:

a. Terrain contour mapping equipment;

b. Imaging sensor equipment;

c. Scene mapping and correlation (both digital and analog) equipment;

d. Doppler navigation radar equipment.

b. Precision tracking systems, usable for rockets, missiles, or unmanned aerial vehicles capable of achieving a ''range'' equal to or greater than 300 km, as follows:

b.1. Tracking systems which use a code translator installed on the rocket or unmanned aerial vehicle in conjunction with either surface or airborne references or navigation satellite systems to provide real-time measurements of in-flight position and velocity;

b.2. Range instrumentation radars including associated optical/infrared trackers with all of the following capabilities:

b.2.a. Angular resolution better than 1.5 milliradians;

b.2.b. Range of 30 km or greater with a range resolution better than 10 m rms;

b.2.c. Velocity resolution better than 3 m/s.

6A202 Photomultiplier tubes having both of the following characteristics (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NP, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NP applies to entire entry	NP Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: See ECCNs 6E001 (''development''), 6E002 (''production''), and 6E201 (''use'') for technology for items controlled under this entry.

Related Definitions: N/A

Items: a. Photocathode area of greater than 20 cm^2; *and*

b. Anode pulse rise time of less than 1 ns.

6A203 High-speed cameras, imaging devices and "components" therefor, other than those controlled by 6A003 (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NP, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NP applies to entire entry	NP Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: (1) See ECCNs 6E001 (''development''), 6E002 (''production''), and 6E201 (''use'') for technology for items controlled under this entry. (2) Also see ECCN 6A003.a.2, a.3, and a.4.

Related Definitions: N/A

Items: a. Streak cameras and ''specially designed'' components therefor, as follows:

a.1. Streak cameras with writing speeds greater than 0.5 mm/μs;

a.2. Electronic streak cameras capable of 50 ns or less time resolution;

a.3. Streak tubes for cameras described in 6A203.a.2;

a.4. Plug-ins, ''specially designed'' for use with streak cameras having modular structures, that enable the performance characteristics described in 6A203.a.1 or .a.2;

a.5. Synchronizing electronics units, and rotor assemblies consisting of turbines, mirrors and bearings, that are ''specially designed'' for cameras described in 6A203.a.1.

b. Framing cameras and ''specially designed'' components therefor, as follows:

b.1. Framing cameras with recording rates greater than 225,000 frames per second;

b.2. Framing cameras capable of 50 ns or less frame exposure time;

b.3. Framing tubes, and solid-state imaging devices, that have a fast image gating (shutter) time of 50 ns or less and are ''specially designed'' for cameras described in 6A203.b.1 or .b.2;

b.4. Plug-ins, ''specially designed'' for use with framing cameras having modular structures, that enable the performance characteristics described in 6A203.b.1 or .b.2;

b.5. Synchronizing electronic units, and rotor assemblies consisting of turbines, mirrors and bearings, that are ''specially designed'' for cameras described in 6A203.b.1 or .b.2.

c. Solid-state or electron tube cameras and ''specially designed'' components therefor, as follows:

c.1. Solid-state cameras, or electron tube cameras, with a fast image gating (shutter) time of 50 ns or less;

c.2. Solid-state imaging devices, and image intensifiers tubes, that have a fast image gating (shutter) time of 50 ns or less and are ''specially designed'' for cameras described in 6A203.c.1;

c.3. Electro-optical shuttering devices (Kerr or Pockels cells) with a fast image gating (shutter) time of 50 ns or less;

c.4. Plug-ins, ''specially designed'' for use with cameras having modular structures, that enable the performance characteristics described in 6A203.c.1.

Technical Note: High speed single frame cameras can be used alone to produce a single image of a dynamic event, or several such cameras can be combined in a sequentially-triggered system to produce multiple images of an event.

d. Radiation-hardened TV cameras, or lenses therefor, ''specially designed'' or rated as radiation hardened to withstand a total radiation dose greater than 5×10^4 Gy (silicon) without operational degradation.

Technical Note: The term Gy (silicon) refers to the energy in Joules per kilogram absorbed by an unshielded silicon sample when exposed to ionizing radiation.

6A205 "Lasers," "laser" amplifiers and oscillators, other than those controlled by 6A005 (see List of Items Controlled), excluding items that are subject to the export licensing authority of the Nuclear Regulatory Commission (see 10 CFR part 110).

LICENSE REQUIREMENTS

Reason for Control: NP, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NP applies to entire entry	NP Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: (1) See ECCNs 6E001 (''development''), 6E002 (''production''), and 6E201 (''use'') for technology for items controlled under this entry. (2) Also see ECCNs 6A005 and 6A995. (3) See ECCN 6A005.a.2 for additional controls on argon ion lasers; See ECCN 6A005.b.6.c for additional controls on neodymium-doped lasers. (4) ''Lasers'' ''specially designed'' or prepared for use in isotope separation are subject to the export licensing authority of the Nuclear Regulatory Commission (see 10 CFR part 110).

Related Definitions: N/A

Items: a. Copper vapor lasers having both of the following characteristics:

a.1. Operating at wavelengths between 500 nm and 600 nm; and

a.2. An average output power equal to or greater than 30 W;

b. Argon ion ''lasers'' having both of the following characteristics:

b.1. Operating at wavelengths between 400 nm and 515 nm; and

b.2. An average output power greater than 40 W;

c. Neodymium-doped (other than glass) lasers with an output wavelength between 1000 nm and 1100 nm having either of the following:

c.1. Pulse-excited and Q-switched with a pulse duration equal to or greater than 1 ns, and having either of the following:

c.1.a. A single-transverse mode output with an average output power greater than 40 W; *or*

c.1.b. A multiple-transverse mode output with an average output power greater than 50 W; *or*

c.2. Incorporating frequency doubling to give an output wavelength between 500 nm and 550 nm with an average output power of greater than 40 W.

d. Tunable pulsed single-mode dye laser oscillators having all of the following characteristics:

d.1. Operating at wavelengths between 300 nm and 800 nm;

d.2. An average output greater than 1 W;

d.3. A repetition rate greater than 1 kHz; and

d.4. Pulse width less than 100 ns;

e. Tunable pulsed dye laser amplifiers and oscillators having all of the following characteristics:

e.1. Operating at wavelengths between 300 nm and 800 nm;

e.2. An average output greater than 30 W;

e.3. A repetition rate greater than 1 kHz; and

e.4. Pulse width less than 100 ns;

Note to 6A205.e: 6A205.e does not control single mode oscillators.

f. Alexandrite lasers having all of the following characteristics:

f.1. Operating at wavelengths between 720 nm and 800 nm;

f.2. A bandwidth of 0.005 nm or less;

f.3. A repetition rate greater than 125 Hz; and

f.4. An average output power greater than 30 W;

g. Pulsed carbon dioxide ''lasers'' having all of the following characteristics:

g.1. Operating at wavelengths between 9,000 nm and 11,000 nm;

g.2. A repetition rate greater than 250 Hz;

g.3. An average output power greater than 500 W; and

g.4. Pulse width of less than 200 ns;

Note to 6A205.g: 6A205.g does not control the higher power (typically 1 kW to 5 kW) industrial CO_2 lasers used in applications such as cutting and welding, as these latter lasers are either continuous wave or are pulsed with a pulse width greater than 200 ns.

h. Pulsed excimer lasers (XeF, XeCl, KrF) having all of the following characteristics:

h.1. Operating at wavelengths between 240 nm and 360 nm;

h.2. A repetition rate greater than 250 Hz; and

h.3. An average output power greater than 500 W;

i. Para-hydrogen Raman shifters designed to operate at 16 micrometer output wavelength and at a repetition rate greater than 250 Hz.;

j. Pulsed carbon monoxide lasers having all of the following characteristics:

j.1. Operating at wavelengths between 5,000 and 6,000 nm;

j.2. A repetition rate greater than 250 Hz;

j.3. An average output power greater than 200 W; *and*

j.4. Pulse width of less than 200 ns.

Note to ECCN 6A205.j: 6A205.j does not control the higher power (typically 1 kW to 5 kW) industrial CO lasers used in applications such as cutting and welding, because such lasers are either continuous wave or are pulsed with a pulse width greater than 200 ns.

6A225 Velocity interferometers for measuring velocities exceeding 1 km/s during time intervals of less than 10 microseconds.

LICENSE REQUIREMENTS

Reason for Control: NP, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NP applies to entire entry	NP Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: See ECCNs 6E001 (''development''), 6E002 (''production''), and 6E201 (''use'') for technology for items controlled under this entry.

Related Definitions: N/A

ECCN Controls: 6A225 includes velocity interferometers, such as VISARs (Velocity Interferometer Systems for Any Reflector), DLIs (Doppler Laser Interferometers) and PDV (Photonic Doppler Velocimeters) also known as Het-V (Heterodyne Velocimeters).

Items: The list of items controlled is contained in the ECCN heading.

6A226 Pressure sensors, as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NP, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NP applies to entire entry	NP Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: See ECCNs 6E001 (''development''), 6E002 (''production''), and 6E201 (''use'') for technology for items controlled under this entry.

Related Definitions: N/A

Items: a. Shock pressure gauges capable of measuring pressures greater than 10 GPa (100 kilobars), including gauges made with manganin, ytterbium, and polyvinylidene bifluoride (PVBF, PVF_2);

b. Quartz pressure transducers for pressures greater than 10 GPa (100 kilobars).

6A611 Acoustic systems and equipment, radar, and "parts," "components," "accessories," and "attachments" "specially designed" therefor, "specially designed" for a military application that are not enumerated in any USML category or other ECCN are controlled by ECCN 3A611. Military fire control, laser, imaging, and guidance equipment that are not enumerated in any USML category or ECCN are controlled by ECCN 7A611.

6A990 Read-out integrated circuits, as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: RS, AT

Control(s)	Country chart (see supp. no. 1 to part 738)
RS applies to entire entry	RS Column 1.
AT applies to entire entry	AT Column 1.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: $500

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: (1) See USML Categories XII(e) and XV(e)(3) for read-out integrated circuits ''subject to the ITAR.'' (2) See ECCN 0A919 for foreign made military commodities that incorporate commodities described in 6A990. (3) Section 744.9 imposes a license requirement on commodities described in 6A990 if being exported, reexported, or transferred (in-country) for use by a military end-user or for incorporation into a commodity controlled by ECCN 0A919.

Related Definitions: N/A

Items:

a. Read-out integrated circuits ''specially designed'' for ''focal plane arrays'' controlled by 6A002.a.3;

Note: 6A990.a does not control read-out integrated circuits ''specially designed'' for civil automotive applications.

b. [RESERVED]

6A991 Marine or terrestrial acoustic equipment, n.e.s., capable of detecting or locating underwater objects or features or positioning surface vessels or underwater vehicles; and "specially designed" "parts" and "components," n.e.s.

LICENSE REQUIREMENTS

Reason for Control: AT, foreign policy

Control(s)	Country chart (see Supp. No. 1 to part 738)
AT applies to entire entry	AT Column 2
Russian industry sector sanctions apply to entire entry.	See §746.5 for specific license requirements and license review policy.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading.

6A992 Optical Sensors, not controlled by 6A002, as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: AT, RS

Control(s)	Country Chart (See Supp. No. 1 to part 738)
AT applies to entire entry	AT Column 1.

RS applies to entire entry. A license is required for items controlled by this entry for export or reexport to Iraq or transfer within Iraq for regional stability reasons. The Commerce Country Chart is not designed to determine RS license requirements for this entry. See §§742.6 and 746.3 of the EAR for additional information.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: a. Image intensifier tubes and ''specially designed'' ''components'' therefor, as follows:

a.1. Image intensifier tubes having all the following:

a.1.a. A peak response in wavelength range exceeding 400 nm, but not exceeding 1,050 nm;

a.1.b. A microchannel plate for electron image amplification with a hole pitch (center-to-center spacing) of less than 25 micrometers; *and*

a.1.c. Having any of the following:

a.1.c.1. An S–20, S–25 or multialkali photocathode; *or*

a.1.c.2. A GaAs or GaInAs photocathode;

a.2. ''Specially designed'' microchannel plates having both of the following characteristics:

a.2.a. 15,000 or more hollow tubes per plate; *and*

a.2.b. Hole pitch (center-to-center spacing) of less than 25 micrometers.

b. Direct view imaging equipment operating in the visible or infrared spectrum, incorporating image intensifier tubes having the characteristics listed in 6A992.a.1.

6A993 Cameras, not controlled by 6A003 or 6A203, as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
AT applies to entire entry	AT Column 1.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: (1) See ECCN 0A919 for foreign made military commodities that incorporate cameras described in 6A993.a that meet the criteria specified in Note 3.a to 6A003.b.4.b (*i.e.*, having a maximum frame rate equal to or less than 9 Hz). (2) Section 744.9 imposes license requirements on cameras described in 6A993.a as a result of meeting the criteria specified in Note 3.a to 6A003.b.4.b (*i.e.*, having a maximum frame rate equal to or less than 9 Hz) if being exported, reexported, or transferred (in-country) for use by a military end-user or for incorporation into a commodity controlled by ECCN 0A919.

Related Definitions: N/A

Items: a. Cameras that meet the criteria of Note 3 to 6A003.b.4.

b. [Reserved]

6A994 Optics, not controlled by 6A004, as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A
LIST OF ITEMS CONTROLLED
Related Controls: N/A
Related Definitions: N/A
Items: a. Optical filters:
a.1. For wavelengths longer than 250 nm, comprised of multi-layer optical coatings and having either of the following:
a.1.a. Bandwidths equal to or less than 1 nm Full Width Half Intensity (FWHI) and peak transmission of 90% or more; or
a.1.b. Bandwidths equal to or less than 0.1 nm FWHI and peak transmission of 50% or more;
NOTE: 6A994 does not control optical filters with fixed air gaps or Lyot-type filters.
a.2. For wavelengths longer than 250 nm, and having all of the following:
a.2.a. Tunable over a spectral range of 500 nm or more;
a.2.b. Instantaneous optical bandpass of 1.25 nm or less;
a.2.c. Wavelength resettable within 0.1 ms to an accuracy of 1 nm or better within the tunable spectral range; and
a.2.d. A single peak transmission of 91% or more;
a.3. Optical opacity switches (filters) with a field of view of 30° or wider and a response time equal to or less than 1 ns;
b. ''Fluoride fiber'' cable, or optical fibers therefor, having an attenuation of less than 4 dB/km in the wavelength range exceeding 1,000 nm but not exceeding 3,000 nm.

6A995 "Lasers" as follows (see List of Items Controlled).
LICENSE REQUIREMENTS
Reason for Control: AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
LVS: N/A
GBS: N/A
CIV: N/A
LIST OF ITEMS CONTROLLED
Related Controls: N/A
Related Definitions: N/A
Items: a. Carbon dioxide (CO_2) ''lasers'' having any of the following:
a.1. A CW output power exceeding 10 kW;
a.2. A pulsed output with a ''pulse duration'' exceeding 10 microseconds; and
a.2.a. An average output power exceeding 10 kW; or
a.2.b. A pulsed ''peak power'' exceeding 100 kW; or
a.3. A pulsed output with a ''pulse duration'' equal to or less than 10 microseconds; and
a.3.a. A pulse energy exceeding 5 J per pulse and ''peak power'' exceeding 2.5 kW; or
a.3.b. An average output power exceeding 2.5 kW;
b. Semiconductor lasers, as follows:
b.1. Individual, single-transverse mode semiconductor ''lasers'' having:
b.1.a. An average output power exceeding 100 mW; or
b.1.b. A wavelength exceeding 1,050 nm;
b.2. Individual, multiple-transverse mode semiconductor ''lasers'', or arrays of individual semiconductor ''lasers'', having a wavelength exceeding 1,050 nm;
c. Ruby ''lasers'' having an output energy exceeding 20 J per pulse;
d. Non-''tunable'' ''pulsed lasers'' having an output wavelength exceeding 975 nm but not exceeding 1,150 nm and having any of the following:
d.1. A ''pulse duration'' equal to or exceeding 1 ns but not exceeding 1 μs, and having any of the following:
d.1.a. A single transverse mode output and having any of the following:
d.1.a.1. A 'wall-plug efficiency' exceeding 12% and an ''average output power'' exceeding 10 W and capable of operating at a pulse repetition frequency greater than 1kHz; *or*
d.1.a.2. An ''average output power'' exceeding 20 W; or
d.1.b. A multiple transverse mode output and having any of the following:
d.1.b.1. A 'wall-plug efficiency' exceeding 18% and an ''average output power'' exceeding 30 W;
d.1.b.2. A ''peak power'' exceeding 200 MW; or
d.1.b.3. An ''average output power'' exceeding 50 W; or
d.2. A ''pulse duration'' exceeding 1 μs and having any of the following:
d.2.a. A single transverse mode output and having any of the following:
d.2.a.1. A 'wall-plug efficiency' exceeding 12% and an ''average output power'' exceeding 10 W and capable of operating at a pulse repetition frequency greater than 1 kHz; or
d.2.a.2. An ''average output power'' exceeding 20 W; or
d.2.b. A multiple transverse mode output and having any of the following:
d.2.b.1. A 'wall-plug efficiency' exceeding 18% and an ''average output power'' exceeding 30 W; or
d.2.b.2. An ''average output power'' exceeding 500 W;
e. Non-''tunable'' continuous wave ''(CW) lasers'', having an output wavelength exceeding 975 nm but not exceeding 1,150 nm and having any of the following:
e.1. A single transverse mode output and having any of the following:
e.1.a. A 'wall-plug efficiency' exceeding 12% and an ''average output power'' exceeding 10 W and capable of operating at a pulse repetition frequency greater than 1 kHz; or
e.1.b. An ''average output power'' exceeding 50 W; or

e.2. A multiple transverse mode output and having any of the following:

e.2.a. A 'wall-plug efficiency' exceeding 18% and an ''average output power'' exceeding 30 W; or

e.2.b. An ''average output power'' exceeding 500 W;

Note: 6A995.e.2.b does not control multiple transverse mode, industrial ''lasers'' with output power less than or equal to 2kW with a total mass greater than 1,200kg. For the purpose of this note, total mass includes all ''components'' required to operate the ''laser,'' e.g., ''laser,'' power supply, heat exchanger, but excludes external optics for beam conditioning and/or delivery.

f. Non-''tunable'' ''lasers'', having a wavelength exceeding 1,400 nm, but not exceeding 1555 nm and having any of the following:

f.1. An output energy exceeding 100 mJ per pulse and a pulsed ''peak power'' exceeding 1 W; or

f.2. An average or CW output power exceeding 1 W.

g. Free electron ''lasers''.

6A996 "Magnetometers" not controlled by ECCN 6A006, "Superconductive" electromagnetic sensors, and "specially designed" "components" therefor, as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: a. ''Magnetometers'', n.e.s., having a 'sensitivity' lower (better) than 1.0 nT (rms) per square root Hz.

Technical Note: For the purposes of 6A996, 'sensitivity' (noise level) is the root mean square of the device-limited noise floor which is the lowest signal that can be measured.

b. ''Superconductive'' electromagnetic sensors, ''components'' manufactured from ''superconductive'' materials:

b.1. Designed for operation at temperatures below the ''critical temperature'' of at least one of their ''superconductive'' constituents (including Josephson effect devices or ''superconductive'' quantum interference devices (SQUIDS));

b.2. Designed for sensing electromagnetic field variations at frequencies of 1 KHz or less; and

b.3. Having any of the following characteristics:

b.3.a. Incorporating thin-film SQUIDS with a minimum feature size of less than 2 μm and with associated input and output coupling circuits;

b.3.b. Designed to operate with a magnetic field slew rate exceeding 1×10^6 magnetic flux quanta per second;

b.3.c. Designed to function without magnetic shielding in the earth's ambient magnetic field; or

b.3.d. Having a temperature coefficient less (smaller) than 0.1 magnetic flux quantum/K.

6A997 Gravity meters (gravimeters) for ground use, n.e.s., as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: a. Having a static accuracy of less (better) than 100 microgal; or

b. Being of the quartz element (Worden) type.

6A998 Radar systems, equipment and major "components," n.e.s., and "specially designed" "components" therefor, as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: RS, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
RS applies to 6A998.b	RS Column 1
RS applies to 6A998.c	RS Column 2
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Unit: $ value.

Related Controls: N/A

Related Definitions: N/A

Items: a. Airborne radar equipment, n.e.s., and ''specially designed'' ''components'' therefor.

b. ''Space-qualified'' ''laser'' radar or Light Detection and Ranging (LIDAR) equipment

''specially designed'' for surveying or for meteorological observation.

c. Millimeter wave enhanced vision radar imaging systems ''specially designed'' for rotary wing aircraft and having all of the following:

c.1. Operates at a frequency of 94 GHz;

c.2. An average output power of less than 20 mW;

c.3. Radar beam width of 1 degree; and

c.4. Operating range equal to or greater than 1500 m.

6A999 Specific Processing Equipment, as Follows (See List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: RS, AT

Control(s)	Country chart (See Supp. No. 1 to part 738)
RS applies to 6A999.c	RS Column 2

AT applies to entire entry. A license is required for items controlled by this entry to North Korea for anti-terrorism reasons. The Commerce Country Chart is not designed to determine AT licensing requirements for this entry. See §742.19 of the EAR for additional information.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: See also 6A203.

Related Definitions: N/A

Items: a. Seismic detection equipment not controlled in paragraph c.

b. Radiation hardened TV cameras, n.e.s.

c. Seismic intrusion detection systems that detect, classify and determine the bearing on the source of a detected signal.

B. ''TEST'', ''INSPECTION'' AND ''PRODUCTION EQUIPMENT''

6B004 Optical equipment, as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 2
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: $5000

GBS: Yes for 6B004.b

CIV: Yes for 6B004.b

LIST OF ITEMS CONTROLLED

Related Controls: This entry does not control microscopes.

Related Definitions: N/A

Items:

a. Equipment for measuring absolute reflectance to an ''accuracy'' of equal to or better than 0.1% of the reflectance value;

b. Equipment other than optical surface scattering measurement equipment, having an unobscured aperture of more than 10 cm, ''specially designed'' for the non-contact optical measurement of a non-planar optical surface figure (profile) to an ''accuracy'' of 2 nm or less (better) against the required profile.

6B007 Equipment to produce, align and calibrate land-based gravity meters with a static "accuracy" of better than 0.1 mGal.

LICENSE REQUIREMENTS

Reason for Control: NS, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 2
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: $5000

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading.

6B008 Pulse radar cross-section measurement systems having transmit pulse widths of 100 ns or less, and "specially designed" "components" therefor.

LICENSE REQUIREMENTS

Reason for Control: NS, MT, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 2
MT applies to entire entry	MT Column 1
AT applies to entire entry	AT Column 1

REPORTING REQUIREMENTS See §743.1 of the EAR for reporting requirements for exports under License Exceptions, and Validated End-User authorizations

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

SPECIAL CONDITIONS FOR STA

STA: License Exception STA may not be used to ship any commodity in this entry to any of the destinations listed in Country Group A:6 (See Supplement No. 1 to part 740 of the EAR).

LICENSE REQUIREMENT NOTES: See §743.1 of the EAR for reporting requirements for exports under License Exceptions.
LIST OF ITEMS CONTROLLED
Related Controls: See also 6B108
Related Definitions: N/A
Items: The list of items controlled is contained in the ECCN heading.

6B108 Systems, other than those controlled by 6B008, "specially designed" for radar cross section measurement usable for rockets, missiles, or unmanned aerial vehicles capable of achieving a "range" equal to or greater than 300 km and their subsystems.
LICENSE REQUIREMENTS
Reason for Control: MT, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
MT applies to entire entry	MT Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
LVS: N/A
GBS: N/A
CIV: N/A
LIST OF ITEMS CONTROLLED
Related Controls: N/A
Related Definitions: N/A
Items: The list of items controlled is contained in the ECCN heading.

6B619 Test, inspection, and production "equipment" and related commodities "specially designed" for the "development," "production," repair, overhaul, or refurbishing of commodities enumerated or otherwise described in USML Category XVIII (see List of Items Controlled)
LICENSE REQUIREMENTS
Reason for Control: NS, RS, AT, UN

Control(s)	Country chart (see supp. no. 1 to part 738)
NS applies to entire entry	NS Column 1.
RS applies to entire entry	RS Column 1.
AT applies to entire entry	AT Column 1.
UN applies to entire entry	See §746.1(b) for UN controls.

LICENSE EXCEPTIONS
LVS: $1500
GBS: N/A
CIV: N/A
SPECIAL CONDITIONS FOR STA
STA: Paragraph (c)(2) of License Exception STA (§740.20(c)(2) of the EAR) may not be used for any item in 6B619.
LIST OF ITEMS CONTROLLED
Related Controls: ''Parts,'' ''components,'' ''accessories,'' ''attachments,'' and associated systems or ''equipment'' ''specially designed'' for defense articles enumerated or otherwise described in paragraphs (a) or (b) of USML Category XVIII are subject to the ITAR (see 22 CFR 121.1, Category XVIII(e)).
Related Definitions: N/A
Items:

a. Tooling, templates, jigs, mandrels, molds, dies, fixtures, alignment mechanisms, and test ''equipment'' not enumerated or otherwise described in USML Category XVIII and not elsewhere specified on the USML that are ''specially designed'' for the ''development,'' ''production,'' repair, overhaul, or refurbishing of commodities controlled by USML Category XVIII.

b. through w. [Reserved]

x. ''Parts,'' ''components,'' ''accessories,'' and ''attachments'' ''specially designed'' for a commodity subject to control under paragraph .a of this ECCN and not enumerated or otherwise described in USML Category XVIII and not elsewhere specified on the USML.

6B995 Equipment, including tools, dies, fixtures or gauges, and other "specially designed" "parts," "components" and "accessories" therefor, "specially designed" or modified for any of the following (see List of Items Controlled).
LICENSE REQUIREMENTS
Reason for Control: AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
LVS: N/A
GBS: N/A
CIV: N/A
LIST OF ITEMS CONTROLLED
Related Controls: N/A
Related Definitions: N/A
Items: a. For the manufacture or inspection of:

a.1. Free electron ''laser'' magnet wigglers;

a.2. Free electron ''laser'' photo injectors;

b. For the adjustment, to required tolerances, of the longitudinal magnetic field of free electron ''lasers''.

C. ''MATERIALS''

6C002 Optical sensor materials as follows (see List of Items Controlled).
LICENSE REQUIREMENTS
Reason for Control: NS, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 2
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
LVS: $3000
GBS: N/A
CIV: N/A
LIST OF ITEMS CONTROLLED
Related Controls: See also 6C992.
Related Definitions: N/A
Items: a. Elemental tellurium (Te) of purity levels of 99.9995% or more;
b. Single crystals (including epitaxial wafers) of any of the following:
b.1. Cadmium zinc telluride (CdZnTe), with zinc content less than 6% by 'mole fraction';
b.2. Cadmium telluride (CdTe) of any purity level; or
b.3. Mercury cadmium telluride (HgCdTe) of any purity level.
Technical Note: 'Mole fraction' is defined as the ratio of moles of ZnTe to the sum of the moles of CdTe and ZnTe present in the crystal.

6C004 Optical materials as follows (see List of Items Controlled).
LICENSE REQUIREMENTS
Reason for Control: NS, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 2
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
LVS: $1500
GBS: Yes for 6C004.a and .e
CIV: Yes for 6C004.a and .e
LIST OF ITEMS CONTROLLED
Related Controls: See also 6C994
Related Definitions: N/A
Items: a. Zinc selenide (ZnSe) and zinc sulphide (ZnS) ''substrate blanks'', produced by the chemical vapor deposition process and having any of the following:
a.1. A volume greater than 100 cm^3; or
a.2. A diameter greater than 80 mm and a thickness of 20 mm or more;
b. Electro-optic materials and non-linear materials, as follows:
b.1. Potassium titanyl arsenate (KTA) (CAS 59400–80–5);
b.2. Silver gallium selenide ($AgGaSe_2$, also known as AGSE) (CAS 12002–67–4);
b.3. Thallium arsenic selenide (Tl_3AsSe_3, also known as TAS) (CAS 16142–89–5);
b.4. Zinc germanium phosphide ($ZnGeP_2$, also known as ZGP, zinc germanium biphosphide or zinc germanium diphosphide); *or*
b.5. Gallium selenide (GaSe) (CAS 12024–11–2);
c. Non-linear optical materials, other than those specified by 6C004.b, having any of the following:
c.1. Having all of the following:
c.1.a. Dynamic (also known as nonstationary) third order nonlinear susceptibility ($\chi^{(3)}$, chi 3) of 10^{-6} m^2/V^2 or more; *and*
c.1.b. Response time of less than 1 ms; *or*
c.2. Second order nonlinear susceptibility ($\chi^{(2)}$, chi 2) of 3.3×10^{-11} m/V or more;
d. ''Substrate blanks'' of silicon carbide or beryllium beryllium (Be/Be) deposited materials, exceeding 300 mm in diameter or major axis length;
e. Glass, including fused silica, phosphate glass, fluorophosphate glass, zirconium fluoride (ZrF_4) (CAS 7783–64–4) and hafnium fluoride (HfF_4) (CAS 13709–52–9) and having all of the following:
e.1. A hydroxyl ion (OH-) concentration of less than 5 ppm;
e.2. Integrated metallic purity levels of less than 1 ppm; and
e.3. High homogeneity (index of refraction variance) less than 5×10^{-6};
f. Synthetically produced diamond material with an absorption of less than 10^{-5} cm^{-1} for wavelengths exceeding 200 nm but not exceeding 14,000 nm.

6C005 "Laser" Materials as Follows (see List of Items Controlled).
LICENSE REQUIREMENTS
Reason for Control: NS, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 2
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
LVS: $1500
GBS: N/A
CIV: N/A
LIST OF ITEMS CONTROLLED
Related Controls: N/A
Related Definitions: N/A
Items: a. Synthetic crystalline ''laser'' host material in unfinished form as follows:
a.1. Titanium doped sapphire;
a.2. [Reserved]
b. Rare-earth-metal doped double-clad fibers having any of the following:
b.1. Nominal ''laser'' wavelength of 975 nm to 1,150 nm and having all of the following:
b.1.a. Average core diameter equal to or greater than 25 μm; *and*
b.1.b. Core 'Numerical Aperture' ('NA') less than 0.065; *or*
Note to 6C005.b.1: 6C005.b.1 does not apply to double-clad fibers having an inner glass cladding diameter exceeding 150 μm and not exceeding 300 μm.
b.2. Nominal ''laser'' wavelength exceeding 1,530 nm and having all of the following:
b.2.a. Average core diameter equal to or greater than 20 μm; *and*
b.2.b. Core 'NA' less than 0.1.

Technical Notes: 1. For the purposes of 6C005, the core 'Numerical Aperture' ('NA') is measured at the emission wavelengths of the fiber.

2. 6C005.b includes fibers assembled with end caps.

6C992 Optical sensing fibers not controlled by 6A002.d.3 that are modified structurally to have a ' beat length' of less than 500 mm (high birefringence) or optical sensor materials not described in 6C002.b and having a zinc content of equal to or more than 6% by ' mole fraction.'

LICENSE REQUIREMENTS

Reason for Control: AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: (1) 'Mole fraction' is defined as the ratio of moles of ZnTe to the sum of the moles of CdTe and ZnTe present in the crystal. (2) 'Beat length' is the distance over which two orthogonally polarized signals, initially in phase, must pass in order to achieve a 2 Pi radian(s) phase difference.

Items: The list of items controlled is contained in the ECCN heading.

6C994 Optical materials, as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: (1) 'Fluoride fibers' are fibers manufactured from bulk fluoride compounds. (2) 'Optical fiber preforms' are bars, ingots, or rods of glass, plastic or other materials that have been specially processed for use in fabricating optical fibers. The characteristics of the preform determine the basic parameters of the resultant drawn optical fibers.

Items: a. Low optical absorption materials, as follows:

a.1. Bulk fluoride compounds containing ingredients with a purity of 99.999% or better; *or*

Note: 6C994.a.1 controls fluorides of zirconium or aluminum and variants.

a.2. Bulk fluoride glass made from compounds controlled by 6C004.e.1;

b. 'Optical fiber preforms' made from bulk fluoride compounds containing ingredients with a purity of 99.999% or better, ''specially designed'' for the manufacture of 'fluoride fibers' controlled by 6A994.b.

D. ''SOFTWARE''

6D001 "Software" "specially designed" for the "development" or "production" of equipment controlled by 6A004, 6A005, 6A008, or 6B008.

LICENSE REQUIREMENTS

Reason for Control: NS, MT, RS, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to "software" for equipment controlled by 6A004, 6A005, 6A008 or 6B008.	NS Column 1.
MT applies to "software" for equipment controlled by 6A008 or 6B008 for MT reasons.	MT Column 1.
RS applies to "software" for equipment controlled by 6A008.j.1.	RS Column 1.
AT applies to entire entry	AT Column 1.

REPORTING REQUIREMENTS See §743.1 of the EAR for reporting requirements for exports under License Exceptions, and Validated End-User authorizations

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

*TSR:*Yes, except for the following:

(1) Items controlled for MT reasons;

(2) ''Software'' ''specially designed'' for the ''development'' or ''production'' of ''space qualified'' ''laser'' radar or Light Detection and Ranging (LIDAR) equipment defined in 6A008.j.1; or

(3) Exports or reexports to destinations outside of those countries listed in Country Group A:5 (See Supplement No. 1 to part 740 of the EAR) of ''software'' ''specially designed'' for the ''development'' or ''production'' of equipment controlled by 6A004.c or d, 6A008.d, h, k or 6B008.

SPECIAL CONDITIONS FOR STA

STA: License Exception STA may not be used to ship or transmit ''software'' ''specially designed'' for the ''development'' or ''production'' of equipment specified by ECCNs 6A004.c, 6A004.d, 6A008.d, 6A008.h, 6A008.k, or 6B008 to any of the destinations

listed in Country Group A:6 (See Supplement No. 1 to part 740 of the EAR)

LIST OF ITEMS CONTROLLED

Related Controls: See also 6D991, and ECCN 6E001 (''development'') for ''technology'' for items controlled under this entry.

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading.

6D002 "Software" "specially designed" for the "use" of equipment controlled by 6A002.b, 6A008, or 6B008.

LICENSE REQUIREMENTS

Reason for Control: NS, MT, RS, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 1.
MT applies to "software" for equipment controlled by 6A008 or 6B008 for MT reasons.	MT Column 1.
RS applies to "software" for equipment controlled by 6A008.j.1.	RS Column 1.
AT applies to entire entry	AT Column 1.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: Yes, except N/A for the following: (1) Items controlled for MT reasons; (2) ''Software'' ''specially designed'' for the ''use'' of ''space qualified'' ''laser'' radar or Light Detection and Ranging (LIDAR) equipment defined in 6A008.j.1; or (3) ''Software'' ''specially designed'' for the ''use'' of commodities controlled by 6A002.b.

LIST OF ITEMS CONTROLLED

Related Controls: (1) ''Software'' ''specially designed'' for the ''use'' of ''space-qualified'' LIDAR ''equipment'' ''specially designed'' for surveying or for meteorological observation, released from control under the note in 6A008.j, is controlled in 6D991. (2) See also ECCNs 6D102, 6D991, and 6D992.

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading.

6D003 Other "software" as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, RS, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 1
RS applies to paragraph c	RS Column 1
AT applies to entire entry	AT Column 1

REPORTING REQUIREMENTS See §743.1 of the EAR for reporting requirements for exports under License Exceptions, and Validated End-User authorizations

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: Yes, for 6D003.h.1

TSR: Yes, except for 6D003.c and exports or reexports to destinations outside of those countries listed in Country Group A:5 (See Supplement No. 1 to part 740 of the EAR) of ''software'' for items controlled by 6D003.a.

SPECIAL CONDITIONS FOR STA

STA: License Exception STA may not be used to ship transmit software in 6D003.a to any of the destinations listed in Country Group A:6 (See Supplement No. 1 to part 740 of the EAR).

LIST OF ITEMS CONTROLLED

Related Controls: See also ECCNs 6D103, 6D991, and 6D993.

Related Definitions: N/A

Items:

ACOUSTICS

a. ''Software'' as follows:

a.1. ''Software'' ''specially designed'' for acoustic beam forming for the ''real time processing'' of acoustic data for passive reception using towed hydrophone arrays;

a.2. ''Source code'' for the ''real time processing'' of acoustic data for passive reception using towed hydrophone arrays;

a.3. ''Software'' ''specially designed'' for acoustic beam forming for the ''real time processing'' of acoustic data for passive reception using bottom or bay cable systems;

a.4. ''Source code'' for the ''real time processing'' of acoustic data for passive reception using bottom or bay cable systems;

a.5. ''Software'' or ''source code'', ''specially designed'' for all of the following:

a.5.a. ''Real time processing'' of acoustic data from sonar systems controlled by 6A001.a.1.e; and

a.5.b. Automatically detecting, classifying and determining the location of divers or swimmers;

N.B.: For diver detection ''software'' or ''source code'', ''specially designed'' or modified for military use, see the U.S. Munitions List of the International Traffic in Arms Regulations (ITAR) (22 CFR part 121).

b. Optical sensors. None.

CAMERAS

c. ''Software'' designed or modified for cameras incorporating ''focal plane arrays'' specified by 6A002.a.3.f and designed or modified to remove a frame rate restriction and allow the camera to exceed the frame rate specified in 6A003.b.4 Note 3.a;

OPTICS

d. ''Software'' specially designed to maintain the alignment and phasing of segmented mirror systems consisting of mirror segments having a diameter or major axis length equal to or larger than 1 m;

e. Lasers. None

MAGNETIC AND ELECTRIC FIELD SENSORS

f. ''Software'' as follows:

f.1. ''Software'' ''specially designed'' for magnetic and electric field ''compensation systems'' for magnetic sensors designed to operate on mobile platforms;

f.2. ''Software'' ''specially designed'' for magnetic and electric field anomaly detection on mobile platforms;

f.3. ''Software'' ''specially designed'' for ''real time processing'' of electromagnetic data using underwater electromagnetic receivers specified by 6A006.e;

f.4. ''Source code'' for ''real time processing'' of electromagnetic data using underwater electromagnetic receivers specified by 6A006.e;

GRAVIMETERS

g. ''Software'' ''specially designed'' to correct motional influences of gravity meters or gravity gradiometers;

RADAR

h. ''Software'' as follows:

h.1. Air Traffic Control (ATC) ''software'' application ''programs'' designed to be hosted on general purpose computers located at Air Traffic Control centers and capable of accepting radar target data from more than four primary radars;

h.2. ''Software'' for the design or ''production'' of radomes and having all of the following:

h.2.a. ''specially designed'' to protect the ''electronically steerable phased array antennae'' controlled by 6A008.e.; *and*

h.2.b. Resulting in an antenna pattern having an 'average side lobe level' more than 40 dB below the peak of the main beam level.

Technical Note: 'Average side lobe level' in 6D003.h.2.b is measured over the entire array excluding the angular extent of the main beam and the first two side lobes on either side of the main beam.

6D102 "Software" "specially designed" or modified for the "use" of equipment controlled by 6A108.

LICENSE REQUIREMENTS

Reason for Control: MT, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
MT applies to entire entry	MT Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading

6D103 "Software" that processes post-flight, recorded data, enabling determination of vehicle position throughout its flight path, "specially designed" or modified for "missiles".

LICENSE REQUIREMENTS

Reason for Control: MT, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
MT applies to entire entry	MT Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

LIST OF ITEMS CONTROLLED

Items: The list of items controlled is contained in the ECCN heading.

6D201 "Software" "specially designed" to enhance or release the performance characteristics of high-speed cameras and imaging devices, and components therefor, to meet or exceed the level of the performance characteristics described in ECCN 6A203.

LICENSE REQUIREMENTS

Reason for Control: NP, AT

Control(s)	Country chart (see Supp. No. 1 to part 738)
NP applies to entire entry	NP Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

LIST OF ITEMS CONTROLLED

Related Controls: See ECCNs 6E001 (''development'') and 6E202 (''production'' and ''use'') for ''technology'' for items controlled under this entry.

Related Definitions: N/A

Items: a. ''Software'' or encryption keys/codes ''specially designed'' to enhance or release the performance characteristics of equipment not controlled by ECCN 6A203, or not controlled for NP reasons by ECCN 6A003, so that such equipment meets or exceeds the performance characteristics of equipment described in ECCN 6A203.

b. ''Software'' or encryption keys/codes ''specially designed'' to enhance or release the performance characteristics of equipment controlled by ECCN 6A203 or equipment controlled by ECCN 6A003 that meets or exceeds the performance characteristics described in ECCN 6A203.

6D619 "Software" "specially designed" for the "development," "production," operation or maintenance of commodities controlled by 6B619.

LICENSE REQUIREMENTS

Reason for Control: NS, RS, AT, UN

Control(s)	Country chart (see supp. no. 1 to part 738)
NS applies to entire entry	NS Column 1.
RS applies to entire entry	RS Column 1.
AT applies to entire entry	AT Column 1.
UN applies to entire entry	See §746.1(b) for UN controls.

LICENSE EXCEPTIONS
CIV: N/A
TSR: N/A
SPECIAL CONDITIONS FOR STA
STA: Paragraph (c)(2) of License Exception STA (§740.20(c)(2) of the EAR) may not be used for any item in 6D619.
LIST OF ITEMS CONTROLLED
Related Controls: ''Software'' directly related to articles enumerated or otherwise described in USML Category XVIII is subject to the ITAR (See 22 CFR 121.1, Category XVIII(f)).
Related Definitions: N/A
Items:

The list of items controlled is contained in the ECCN heading.

6D991 "Software," n.e.s., "specially designed" for the "development", "production", or "use" of commodities controlled by 6A002, 6A003, 6A990, 6A991, 6A996, 6A997, or 6A998.

LICENSE REQUIREMENTS
Reason for Control: RS, AT

Control(s)	Country chart (see supp. no. 1 to part 738)
RS applies to ''software'' for commodities controlled by 6A002, 6A003, 6A990, or 6A998.b.	RS Column 1.
RS applies to ''software'' for commodities controlled by 6A998.c.	RS Column 2.
AT applies to entire entry, except ''software'' for commodities controlled by 6A991.	AT Column 1.
AT applies to ''software'' for commodities controlled by 6A991.	AT Column 2.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
CIV: N/A
TSR: N/A
LIST OF ITEMS CONTROLLED
Related Controls: (1) See ECCN 6D002 for ''software'' ''specially designed'' for the ''use'' of commodities controlled under ECCN 6A002.b. (2) See ECCN 6D003.c for ''software'' ''specially designed'' for cameras incorporating ''focal plane arrays'' specified by 6A002.a.3.f and ''specially designed'' to remove a frame rate restriction and allow the camera to exceed the frame rate specified in 6A003.b.4 Note 3.a.
Related Definitions: N/A
Items:

The list of items controlled is contained in the ECCN heading.

6D992 "Software" "specially designed" for the "development" or "production" of equipment controlled by 6A992, 6A994, or 6A995.

LICENSE REQUIREMENTS
Reason for Control: AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
CIV: N/A
TSR: N/A
LIST OF ITEMS CONTROLLED
Related Controls: N/A
Related Definitions: N/A
Items: The list of items controlled is contained in the ECCN heading.

6D993 Other "software," not controlled by 6D003, as follows (see List of Items Controlled).

LICENSE REQUIREMENTS
Reason for Control: RS, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
RS applies to 6D993.c	RS Column 1
RS applies to 6D993.b	RS Column 2
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
CIV: N/A
TSR: N/A
LIST OF ITEMS CONTROLLED
Related Controls: N/A
Related Definitions: N/A
Items: a. Air Traffic Control (ATC) ''software'' application ''programs'' hosted on general purpose computers located at Air Traffic Control centers, and capable of automatically handing over primary radar target data (if not correlated with secondary surveillance radar (SSR) data) from the host ATC center to another ATC center;

b. ''Software'' ''specially designed'' for seismic intrusion detection systems in 6A999.c.

c. ''Source Code'' ''specially designed'' for seismic intrusion detection systems in 6A999.c.

E. ''TECHNOLOGY''

6E001 "Technology" according to the General Technology Note for the "development" of equipment, materials or "software" controlled by 6A (except 6A990,

6A991, 6A992, 6A994, 6A995, 6A996, 6A997 6A998, or 6A999.c), 6B (except 6B995), 6C (except 6C992 or 6C994), or 6D (except 6D991, 6D992, or 6D993).

LICENSE REQUIREMENTS

Reason for Control: NS, MT, NP, RS, CC, AT, UN

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to "technology" for items controlled by 6A001 to 6A008, 6B004 to 6B008, 6C002 to 6C005, or 6D001 to 6D003.	NS Column 1.
MT applies to "technology" for items controlled by 6A002, 6A007, 6A008,6A102, 6A107, 6A108, 6B008, 6B108, 6D001, 6D002, 6D102 or 6D103 for MT reasons.	MT Column 1.
NP applies to "technology" for items controlled by 6A003, 6A005, 6A202, 6A203, 6A205, 6A225, 6A226, 6D001, or 6D201 for NP reasons.	NP Column 1.
RS applies to "technology" for items controlled by 6A002.a.1, .a.2, .a.3, or .c, 6A003.b.3 or .b.4, or 6A008.j.1.	RS Column 1.
CC applies to "technology" for equipment controlled by 6A002 for CC reasons.	CC Column 1.
AT applies to entire entry	AT Column 1.
UN applies to "technology" for equipment Controlled by 6A002 or 6A003 for UN reasons.	See §746.1(b) for UN controls.

REPORTING REQUIREMENTS See §743.1 of the EAR for reporting requirements for exports under License Exceptions, and Validated End-User authorizations

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: Yes, except for the following: (1) Items controlled for MT reasons; (2) ''Technology'' for commodities controlled by 6A002, 6A004.e or 6A008.j.1; (3) ''Technology'' for 6A003 cameras, unless for ''technology'' for the integration of 6A003 cameras into camera systems ''specially designed'' for civil automotive applications; (4) ''Technology'' for ''software'' ''specially designed'' for ''space qualified'' ''laser'' radar or Light Detection and Ranging (LIDAR) equipment defined in 6A008.j.1 and controlled by 6D001 or 6D002; or (5) Exports or reexports to destinations outside of those countries listed in Country Group A:5 (See Supplement No. 1 to part 740 of the EAR) of ''technology'' for the ''development'' of the following: (a) Items controlled by 6A001.a.1.b, 6A001.a.1.e, 6A001.a.2.a.1, 6A001.a.2.a.2, 6A001.a.2.a.3, 6A001.a.2.a.5, 6A001.a.2.a.6, 6A001.a.2.b, 6A001.a.2.d, 6A001.a.2.e., 6A004.c, 6A004.d,, 6A006.a.2, 6A006.c.1, 6A006.d, 6A006.e, 6A008.d, 6A008.h, 6A008.k, 6B008, or 6D003.a; (b) Equipment controlled by 6A001.a.2.c or 6A001.a.2.f when ''specially designed'' for real time applications; or (c) ''Software'' controlled by 6D001 and ''specially designed'' for the ''development'' or ''production'' of equipment controlled by 6B008, or 6D003.a.

SPECIAL CONDITIONS FOR STA

STA: License Exception STA may not be used to ship or transmit any technology in this entry to any of the destinations listed in Country Group A:6 (See Supplement No. 1 to part 740 of the EAR).

LIST OF ITEMS CONTROLLED

Related Controls: (1) Technical data directly related to satellites and all other items described in USML Category XV are subject to the ITAR under USML Category XV(f). (2) Technical data directly related to laser systems, infrared imaging systems, and all other items described in USML Category XII are subject to the ITAR under USML Category XII(f). (3) See also 6E101, 6E201, and 6E991.

Items: The list of items controlled is contained in the ECCN heading.

6E002 "Technology" according to the General Technology Note for the "production" of equipment or materials controlled by 6A (except 6A990, 6A991, 6A992, 6A994, 6A995, 6A996, 6A997, 6A998 or 6A999.c), 6B (except 6B995) or 6C (except 6C992 or 6C994).

LICENSE REQUIREMENTS

Reason for Control: NS, MT, NP, RS, CC, AT, UN

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to "technology" for equipment controlled by 6A001 to 6A008, 6B004 to 6B008, or 6C002 to 6C005.	NS Column 1.
MT applies to "technology" for equipment controlled by 6A002, 6A007, 6A008, 6A102, 6A107, 6A108, 6B008, or 6B108 for MT reasons.	MT Column 1.
NP applies to "technology" for items controlled by 6A003, 6A005, 6A202, 6A203, 6A205, 6A225 or 6A226 for NP reasons.	NP Column 1.
RS applies to "technology" for items controlled by 6A002.a.1, .a.2, .a.3, or .c, 6A003.b.3 or .b.4, or 6A008.j.1.	RS Column 1
CC applies to "technology" for equipment controlled by 6A002 for CC reasons.	CC Column 1.
AT applies to entire entry	AT Column 1.

Control(s)	Country Chart (See Supp. No. 1 to part 738)
UN applies to "technology" for equipment controlled by 6A002 or 6A003 for UN reasons..	See §746.1(b) for UN controls.

REPORTING REQUIREMENTS See §743.1 of the EAR for reporting requirements for exports under License Exceptions, and Validated End-User authorizations

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: Yes, except for the following:

(1) Items controlled for MT reasons;

(2) "Technology" for commodities controlled by 6A002, 6A004.e, or 6A008.j.1;

(3) "Technology" for 6A003 cameras, unless for "technology" for the integration of 6A003 cameras into camera systems "specially designed" for civil automotive applications ; or

(4) Exports or reexports to destinations outside of those countries listed in Country Group A:5 (See Supplement No. 1 to part 740 of the EAR) of "technology" for the "production" of the following: (a) Items controlled by 6A001.a.1.b, 6A001.a.1.e, 6A001.a.2.a.1, 6A001.a.2.a.2, 6A001.a.2.a.3, 6A001.a.2.a.5, 6A001.a.2.a.6, 6A001.a.2.b, 6A004.c, 6A004.d, 6A006.a.2, 6A006.c.1, 6A006.d, 6A006.e, 6A008.d, 6A008.h, 6A008.k, or 6B008; and (b) Items controlled by 6A001.a.2.c or 6A001.a.2.f when "specially designed" for real time applications.

SPECIAL CONDITIONS FOR STA

STA: License Exception STA may not be used to ship or transmit "technology" according to the General Technology Note for the "production" of equipment specified in the STA exclusion paragraphs found in the License Exception sections of by ECCNs 6A001, 6A002, 6A003, 6A004, 6A006, 6A008, or 6B008 to any of the destinations listed in Country Group A:6 (See Supplement No. 1 to part 740 of the EAR).

LIST OF ITEMS CONTROLLED

Related Controls: (1) Technical data directly related to satellites and all other items described in USML Category XV are subject to the ITAR under USML Category XV(f). (2) Technical data directly related to laser systems, infrared imaging systems, and all other items described in USML Category XII are subject to the ITAR under USML Category XII(f). (3) See also 6E992.

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading.

6E003 Other "technology" as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: Yes

LIST OF ITEMS CONTROLLED

Related Controls: See also 6E993

Related Definitions: N/A

Items:

ACOUSTICS

a. [Reserved]

OPTICAL SENSORS

b. [Reserved]

CAMERAS

c. [Reserved]

OPTICS

d. "Technology" as follows:

d.1. Optical surface coating and treatment "technology," "required" to achieve an 'optical thickness' uniformity of 99.5% or better for optical coatings 500 mm or more in diameter or major axis length and with a total loss (absorption and scatter) of less than 5×10^{-3};

N.B.: See also 2E003.f.

Technical Note: 'Optical thickness' is the mathematical product of the index of refraction and the physical thickness of the coating.

d.2. Optical fabrication "technology" using single point diamond turning techniques to produce surface finish "accuracies" of better than 10 nm rms on non-planar surfaces exceeding 0.5 m2;

LASERS

e. "Technology" "required" for the "development," "production" or "use" of "specially designed" diagnostic instruments or targets in test facilities for "SHPL" testing or testing or evaluation of materials irradiated by "SHPL" beams;

MAGNETIC AND ELECTRIC FIELD SENSORS

f. [Reserved]

GRAVIMETERS

g. [Reserved]

RADAR

h. [Reserved]

6E101 "Technology" according to the General Technology Note for the "use" of equipment or "software" controlled by 6A002, 6A007.b and .c, 6A008, 6A102, 6A107, 6A108, 6B108, 6D102 or 6D103.

LICENSE REQUIREMENTS

Reason for Control: MT, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
MT applies to entire entry	MT Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
CIV: N/A
TSR: N/A
LIST OF ITEMS CONTROLLED
Related Controls: N/A
Related Definitions: (1) This entry only controls ''technology'' for equipment controlled by 6A008 when it is designed for airborne applications and is usable in ''missiles''. (2) This entry only controls ''technology'' for items in 6A002.a.1 and a.3 that are ''specially designed'' or modified to protect ''missiles'' against nuclear effects (e.g., Electromagnetic Pulse (EMP), X-rays, combined blast and thermal effects), and usable for ''missiles.'' (3) This entry only controls ''technology'' for items in 6A007.b and .c when the accuracies in 6A007.b.1 and b.2 are met or exceeded.
Items: The list of items controlled is contained in the ECCN heading.

6E201 "Technology" according to the General Technology Note for the "use" of equipment controlled by 6A003.a.2., 6A003.a.3, 6A003.a.4; 6A005.a.2, 6A005.b.2.b, 6A005.b.3, 6A005.b.4.b.2, 6A005.b.6.c, 6A005.c.1.b, 6A005.c.2.b, 6A005.d.2, 6A005.d.3.c, or 6A005.d.4.c (that meet or exceed the parameters of 6A205); 6A202, 6A203, 6A205, 6A225 or 6A226.
LICENSE REQUIREMENTS
Reason for Control: NP, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NP applies to entire entry	NP Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
CIV: N/A
TSR: N/A
LIST OF ITEMS CONTROLLED
Related Controls: N/A
Related Definitions: N/A
ECCN Controls: This entry only controls ''technology'' for ''lasers'' in 6A005 that are controlled for NP reasons.
Items: The list of items controlled is contained in the ECCN heading.

6E202 "Technology" according to the General Technology Note for the "production" or "use" of "software" controlled by 6D201.
LICENSE REQUIREMENTS
Reason for Control: NP, AT

Control(s)	Country chart (see Supp. No. 1 to part 738)
NP applies to entire entry	NP Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
CIV: N/A
TSR: N/A
LIST OF ITEMS CONTROLLED
Related Controls: N/A
Related Definitions: N/A
Items: The list of items controlled is contained in the ECCN heading.

6E619 "Technology" "required" for the "development," "production," operation, installation, maintenance, repair, overhaul or refurbishing of commodities controlled by 6B619 or "software" controlled by 6D619.
LICENSE REQUIREMENTS
Reason for Control: NS, RS, AT, UN

Control(s)	Country chart (see supp. no. 1 to part 738)
NS applies to entire entry	NS Column 1.
RS applies to entire entry	RS Column 1.
AT applies to entire entry	AT Column 1.
UN applies to entire entry	See §746.1(b) for UN controls.

LICENSE EXCEPTIONS
CIV: N/A
TSR: N/A
SPECIAL CONDITIONS FOR STA
STA: Paragraph (c)(2) of License Exception STA (§740.20(c)(2) of the EAR) may not be used for any item in 6E619.
LIST OF ITEMS CONTROLLED
Related Controls: Technical data directly related to articles enumerated or otherwise described in USML Category XVIII are subject to the ITAR (See 22 CFR 121.1, Category XVIII(f)).
Related Definitions: N/A
Items:

The list of items controlled is contained in the ECCN heading.

6E990 Technology "required" for the "development" or "production" of commodities controlled by ECCN 6A990.
LICENSE REQUIREMENTS
Reason for Control: RS, AT

Control(s)	Country chart (See Supp. No. 1 to part 738)
RS applies to entire entry	RS Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
CIV: N/A
TSR: N/A
LIST OF ITEMS CONTROLLED
Related Controls: Technical data directly related to read-out integrated circuits described in USML Categories XII(e) or

XV(e)(3) is subject to the ITAR under USML Categories XII(f) or XV(f), respectively.

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading.

6E991 "Technology" for the "development", "production" or "use" of equipment controlled by 6A991, 6A996, 6A997, 6A998 or 6A999.c.

LICENSE REQUIREMENTS

Reason for Control: RS, AT

Control(s)	Country chart (See Supp. No. 1 to part 738)
RS applies to "technology" for equipment controlled by 6A998.b, 6A998.c and 6A999.c.	RS Column 1
AT applies to entire entry, except "technology" for equipment controlled by 6A991.	AT Column 1
AT applies to "technology" for equipment controlled by 6A991.	AT Column 2

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading.

6E992 "Technology" for the "development" or "production" of equipment, materials or "software" controlled by 6A992, 6A994, or 6A995, 6B995, 6C992, 6C994, or 6D993.

LICENSE REQUIREMENTS

Reason for Control: AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading.

6E993 Other "technology", not controlled by 6E003, as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: RS, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
RS applies to 6E993.e	RS Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: a. Optical fabrication technologies for serially producing optical "parts" and "components" at a rate exceeding 10 m^2 of surface area per year on any single spindle and having all of the following:

a.1. Area exceeding 1 m^2; *and*

a.2. Surface figure exceeding $\lambda/10$ (rms) at the designed wavelength;

b. "Technology" for optical filters with a bandwidth equal to or less than 10 nm, a field of view (FOV) exceeding 40° and a resolution exceeding 0.75 line pairs per milliradian;

c. "Technology" for the "development" or "production" of cameras controlled by 6A993;

d. "Technology" "required" for the "development" or "production" of non-triaxial fluxgate "magnetometers" or non-triaxial fluxgate "magnetometer" systems, having any of the following:

d.1. 'Sensitivity' lower (better) than 0.05 nT (rms) per square root Hz at frequencies of less than 1 Hz; or

d.2. 'Sensitivity' lower (better) than 1×10^{-3} nT (rms) per square root Hz at frequencies of 1 Hz or more.

e. "Technology" "required" for the "development" or "production" of infrared upconversion devices having all of the following:

e.1. A response in the wavelength range exceeding 700 nm but not exceeding 1500 nm; and

e.2. A combination of an infrared photodetector, light emitting diode (OLED), and nanocrystal to convert infrared light into visible light.

Technical Note: For the purposes of 6E993, 'sensitivity' (or noise level) is the root mean square of the device-limited noise floor which is the lowest signal that can be measured.

EAR99 Items subject to the EAR that are not elsewhere specified in this CCL Category or in any other category in the CCL are designated by the number EAR99.

CATEGORY 7—NAVIGATION AND AVIONICS

A. "END ITEMS", "EQUIPMENT", "ACCESSORIES", "ATTACHMENTS", "PARTS", "COMPONENTS" AND "SYSTEMS"

N.B. 1: For automatic pilots for underwater vehicles, see Category 8. For radar, see Category 6.

7A001 Accelerometers as follows (see List of Items Controlled) and "specially designed" "components" therefor.

LICENSE REQUIREMENTS

Reason for Control: NS, MT, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 1.
MT applies to commodities that meet or exceed the parameters of 7A101.	MT Column 1.
AT applies to entire entry	AT Column 1.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: (1) See USML Category XII(e) for accelerometers subject to the ITAR. (2) See also ECCNs 7A101, 7A611, and 7A994. (3) For angular or rotational accelerometers, see ECCN7A001.b. (4) MT controls do not apply to accelerometers that are ''specially designed'' and developed as Measurement While Drilling (MWD) sensors for use in downhole well service applications.

Related Definitions: N/A

Items: a. Linear accelerometers having any of the following:

a.1. Specified to function at linear acceleration levels less than or equal to 15 g and having any of the following:

a.1.a. A ''bias'' ''stability'' of less (better) than 130 micro g with respect to a fixed calibration value over a period of one year; or

a.1.b. A ''scale factor'' ''stability'' of less (better) than 130 ppm with respect to a fixed calibration value over a period of one year;

a.2. Specified to function at linear acceleration levels exceeding 15 g but less than or equal to 100 g and having all of the following:

a.2.a. A ''bias'' ''repeatability'' of less (better) than 1,250 micro g over a period of one year; *and*

a.2.b. A ''scale factor'' ''repeatability'' of less (better) than 1,250 ppm over a period of one year; *or*

a.3. Designed for use in inertial navigation or guidance systems and specified to function at linear acceleration levels exceeding 100 g;

Note: 7A001.a.1 and 7A001.a.2 do not apply to accelerometers limited to measurement of only vibration or shock.

b. Angular or rotational accelerometers, specified to function at linear acceleration levels exceeding 100 g.

7A002 Gyros or angular rate sensors, having any of the following (see List of Items Controlled) and "specially designed" "components" therefor.

LICENSE REQUIREMENTS

Reason for Control: NS, MT, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 1.
MT applies to commodities that meet or exceed the parameters of 7A102.	MT Column 1.
AT applies to entire entry	AT Column 1.

License Requirement Note: For the purpose of MT controls only, the term 'stability' is defined as a measure of the ability of a specific mechanism or performance coefficient to remain invariant when continuously exposed to a fixed operating condition. (This definition does not refer to dynamic or servo stability.) (IEEE STD 528–2001 paragraph 2.247)

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: (1) See USML Category XII(e) for gyros or angular rate sensors subject to the ITAR. (2) See also ECCNs 7A102, 7A611, and 7A994. (3) For angular or rotational accelerometers, see ECCN 7A001.b.

Related Definitions: N/A

Items: a. Specified to function at linear acceleration levels less than or equal to 100 g and having any of the following:

a.1. A rate range of less than 500 degrees per second and having any of the following:

a.1.a. A ''bias'' ''stability'' of less (better) than 0.5 degree per hour,when measured in a 1 g environment over a period of one month, and with respect to a fixed calibration value; *or*

a.1.b. An ''angle random walk'' of less (better) than or equal to 0.0035 degree per square root hour; *or*

Note: 7A002.a.1.b does not control ''spinning mass gyros''.

a.2. A rate range greater than or equal to 500 degrees per second and having any of the following:

a.2.a. A ''bias'' ''stability'' of less (better) than 4 degrees per hour, when measured in a 1 g environment over a period of three minutes, and with respect to a fixed calibration value; *or*

a.2.b. An ''angle random walk'' of less (better) than or equal to 0.1 degree per square root hour; *or*

Note: 7A002.a.2.b does not apply to ''spinning mass gyros''.

b. Specified to function at linear acceleration levels exceeding 100 g.

7A003 'Inertial measurement equipment or systems', having any of the following (see List of Items Controlled).

LICENSE REQUIREMENTS
Reason for Control: NS, MT, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 1.
MT applies to commodities in 7A003.d that meet or exceed the parameters of 7A103.	MT Column 1.
AT applies to entire entry	AT Column 1.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
LVS: N/A
GBS: N/A
CIV: N/A
LIST OF ITEMS CONTROLLED
Related Controls: (1) See also ECCNs 7A103, 7A611, and 7A994. (2) See USML Category XII(d) for guidance or navigation systems subject to the ITAR.
Related Definitions: N/A
Items:

Note 1: 'Inertial measurement equipment or systems' incorporate accelerometers or gyroscopes to measure changes in velocity and orientation in order to determine or maintain heading or position without requiring an external reference once aligned. 'Inertial measurement equipment or systems' include:

—Attitude and Heading Reference Systems (AHRSs);
—Gyrocompasses;
—Inertial Measurement Units (IMUs);
—Inertial Navigation Systems (INSs);
—Inertial Reference Systems (IRSs);
—Inertial Reference Units (IRUs).

Note 2: 7A003 does not apply to 'inertial measurement equipment or systems' which are certified for use on ''civil aircraft'' by civil aviation authorities of one or more Wassenaar Arrangement Participating States, see Supplement No. 1 to part 743 of the EAR.

Technical note: 'Positional aiding references' independently provide position, and include:

a. Global Navigation Satellite Systems (GNSS);
b. ''Data-Based Referenced Navigation'' (''DBRN'').

a. Designed for ''aircraft'', land vehicles or vessels, providing position without the use of 'positional aiding references', and having any of the following ''accuracies'' subsequent to normal alignment:

a.1. 0.8 nautical miles per hour (nm/hr) ''Circular Error Probable'' (''CEP'') rate or less (better);

a.2. 0.5% distanced travelled ''CEP'' or less (better); *or*

a.3. Total drift of 1 nautical mile ''CEP'' or less (better) in a 24 hr period;

Technical Note: The performance parameters in 7A003.a.1, 7A003.a.2 and 7A003.a.3 typically apply to 'inertia measurement equipment or systems' designed for ''aircraft'', vehicles and vessels, respectively. These parameters result from the utilization of specialized non-positional aiding references (e.g., altimeter, odometer, velocity log). As a consequence, the specified performance values cannot be readily converted between these parameters. Equipment designed for multiple platforms are evaluated against each applicable entry 7A003.a.1, 7A003.a.2, or 7A003.a.3.

b. Designed for ''aircraft'', land vehicles or vessels, with an embedded 'positional aiding reference' and providing position after loss of all 'positional aiding references' for a period of up to 4 minutes, having an ''accuracy'' of less (better) than 10 meters ''CEP'';

Technical Note: 7A003.b refers to systems in which 'inertial measurement equipment or systems' and other independent 'positional aiding references' are built into a single unit (i.e., embedded) in order to achieve improved performance.

c. Designed for ''aircraft'', land vehicles or vessels, providing heading or True North determination and having any of the following:

c.1. A maximum operating angular rate less (lower) than 500 deg/s and a heading ''accuracy'' without the use of 'positional aiding references' equal to or less (better) than 0.07 deg sec (Lat) (equivalent to 6 arc minutes rms at 45 degrees latitude); *or*

c.2. A maximum operating angular rate equal to or greater (higher) than 500 deg/s and a heading ''accuracy'' without the use of 'positional aiding references' equal to or less (better) than 0.2 deg sec (Lat) (equivalent to 17 arc minutes rms at 45 degrees latitude);

d. Providing acceleration measurements or angular rate measurements, in more than one dimension, and having any of the following:

d.1. Performance specified by 7A001 or 7A002 along any axis, without the use of any aiding references; *or*

d.2. Being ''space-qualified'' and providing angular rate measurements having an ''angle random walk'' along any axis of less (better) than or equal to 0.1 degree per square root hour.

Note: 7A003.d.2 does not apply to 'inertial measurement equipment or systems' that contain ''spinning mass gyros'' as the only type of gyro.

7A004 "Star trackers" and "components" therefor, as follows (see List of Items Controlled).

LICENSE REQUIREMENTS
Reason for Control: NS, MT, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 1
MT applies to entire entry	MT Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
LVS: N/A

GBS: N/A
CIV: N/A
LIST OF ITEMS CONTROLLED
Related Controls: (1) See USML Category XV for certain 'star trackers' that are ''subject to the ITAR'' (see 22 CFR parts 120 through 130). (2) See also 7A104 and 7A994.
Related Definitions: N/A
Items: a. ''Star trackers'' with a specified azimuth ''accuracy'' of equal to or less (better) than 20 seconds of arc throughout the specified lifetime of the equipment;
b. ''Components'' ''specially designed'' for equipment specified in 7A004.a as follows:
b.1. Optical heads or baffles;
b.2. Data processing units.
Technical Note: 'Star trackers' are also referred to as stellar attitude sensors or gyro-astro compasses.

7A005 Global Navigation Satellite Systems (GNSS) receiving equipment having any of the following (see List of Items Controlled) and "specially designed" "components" therefor.
LICENSE REQUIREMENTS
These items are ''subject to the ITAR'' (see 22 CFR parts 120 through 130).
LIST OF ITEMS CONTROLLED
Related Controls: (1) See also ECCNs 7A105 and 7A994. Typically commercially available GNSS receivers do not employ decryption or adaptive antennas and are classified as 7A994. (2) See USML Category XII(d) for GNSS receiving equipment subject to the ITAR.
Related Definitions: N/A
Items: a. Employing a decryption algorithm ''specially designed'' or modified for government use to access the ranging code for position and time; *or*
b. Employing 'adaptive antenna systems'.
Note: 7A005.b does not apply to GNSS receiving equipment that only uses ''components'' designed to filter, switch, or combine signals from multiple omni-directional antennas that do not implement adaptive antenna techniques.
Technical Note: For the purposes of 7A005.b 'adaptive antenna systems' dynamically generate one or more spatial nulls in an antenna array pattern by signal processing in the time domain or frequency domain.

7A006 Airborne altimeters operating at frequencies other than 4.2 to 4.4 GHz inclusive and having any of the following (see List of Items Controlled).
LICENSE REQUIREMENTS
Reason for Control: NS, MT, AT1

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 1
MT applies to entire entry	MT Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
LVS: N/A
GBS: N/A
CIV: N/A
LIST OF ITEMS CONTROLLED
Related Controls: See also 7A106, 7A994 and Category 6 for controls on radar.
Related Definitions: N/A
Items: a. ''Power management''; or
b. Using phase shift key modulation.

7A008 Underwater sonar navigation systems using Doppler velocity or correlation velocity logs integrated with a heading source and having a positioning "accuracy" of equal to or less (better) than 3% of distance traveled "Circular Error Probable" ("CEP") and "specially designed" "components" therefor.
LICENSE REQUIREMENTS
Reason for Control: NS, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 2.
AT applies to entire entry	AT Column 1.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
LVS: N/A
GBS: N/A
CIV: N/A
LIST OF ITEMS CONTROLLED
Related Controls: 7A008 does not control systems ''specially designed'' for installation on surface vessels or systems requiring acoustic beacons or buoys to provide positioning data. See 6A001.a for acoustic systems, and 6A001.b for correlation-velocity and Doppler-velocity sonar log equipment. See 8A002 for other marine systems.
Related Definitions: N/A
Items: The list of items controlled is contained in the ECCN heading.

7A101 Accelerometers, other than those controlled by 7A001 (see List of Items Controlled), and "specially designed" "parts" and "components" therefor.
LICENSE REQUIREMENTS
Reason for Control: MT, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
MT applies to entire entry	MT Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
LVS: N/A
GBS: N/A
CIV: N/A
LIST OF ITEMS CONTROLLED

Related Controls: (1) See USML Category XII(e) for accelerometers subject to the ITAR. (2) See also ECCNs 7A001 and 7A611. (3) This entry does not control accelerometers that are ''specially designed'' and developed as MWD (Measurement While Drilling) sensors for use in downhole well service operations.

Related Definitions: N/A

Items: a. Linear accelerometers designed for use in inertial navigation systems or in guidance systems of all types, usable in ''missiles'' having all of the following characteristics, and ''specially designed'' ''parts'' and ''components'' therefor:

1. 'Scale factor' ''repeatability'' less (better) than 1250 ppm; and

2. 'Bias' ''repeatability'' less (better) than 1250 micro g.

Note: The measurement of 'bias' and 'scale factor' refers to one sigma standard deviation with respect to a fixed calibration over a period of one year.

b. Accelerometers of any type, designed for use in inertial navigation systems or in guidance systems of all types, specified to function at acceleration levels greater than 100 g.

Note to paragraph b: This paragraph (b) does not include accelerometers that are designed to measure vibration or shock.

7A102 Gyros, other than those controlled by 7A002 (see List of Items Controlled), and "specially designed" "parts" and "components" therefor.

LICENSE REQUIREMENTS

Reason for Control: MT, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
MT applies to entire entry	MT Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: (1) See USML Category XII(e) for gyros or angular rate sensors subject to the ITAR. (2) See also ECCNs 7A002, 7A611, and 7A994.

Related Definitions: (1) Drift rate is defined as the time rate of output deviation from the desired output. It consists of random and systematic components and is expressed as an equivalent angular displacement per unit time with respect to inertial space. (2) Stability is defined as standard deviation (1 sigma) of the variation of a particular parameter from its calibrated value measured under stable temperature conditions. This can be expressed as a function of time.

Items: a. All types of gyros, usable in rockets, missiles, or unmanned aerial vehicles capable of achieving a ''range'' equal to or greater than 300 km, with a rated ''drift rate'' 'stability' of less than 0.5 degrees (1 sigma or rms) per hour in a 1 g environment.

b. Gyros of any type, designed for use in inertial navigation systems or in guidance systems of all types, specified to function at acceleration levels greater than 100 g.

Technical Note: In this entry, the term 'stability' is defined as a measure of the ability of a specific mechanism or performance coefficient to remain invariant when continuously exposed to a fixed operating condition. (This definition does not refer to dynamic or servo stability.) (IEEE STD 528–2001 paragraph 2.247).

7A103 Instrumentation, navigation equipment and systems, other than those controlled by 7A003, and "specially designed" "parts" and "components" therefor, as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: MT, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
MT applies to entire entry	MT Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: (1) See ECCN 7A003 and 7A994. (2) For rockets, missiles, or unmanned aerial vehicles controlled under the U.S. Munitions List (USML), items described in 7A103.b are ''subject to the ITAR'' (see 22 CFR parts 120 through 130). (3) Inertial navigation systems and inertial equipment, and ''specially designed'' ''parts'' and ''components'' therefor specifically designed, modified or configured for military use are ''subject to the ITAR'' (see 22 CFR parts 120 through 130).

Related Definitions: N/A

Items: a. Inertial or other equipment using accelerometers or gyros controlled by 7A001, 7A002, 7A101 or 7A102 and systems incorporating such equipment, and ''specially designed'' ''parts'' and ''components'' therefor;

Note 1: 7A103.a does not control equipment containing accelerometers ''specially designed'' and developed as MWD (Measurement While Drilling) sensors for use in down-hole well services operations.

Note 2: 7A103.a does not control inertial or other equipment using accelerometers or gyros controlled by 7A001 or 7A002 that are only NS controlled.

b. Integrated flight instrument systems, which include gyrostabilizers or automatic

pilots, designed or modified for use in rockets, missiles, or unmanned aerial vehicles capable of achieving a ''range'' equal to or greater than 300 km, and ''specially designed'' ''parts'' and ''components'' therefor.

c. Integrated Navigation Systems, designed or modified for use in rockets, missiles, or unmanned aerial vehicles capable of achieving a ''range'' equal to or greater than 300 km and capable of providing a navigational accuracy of 200m Circular Error Probable (CEP) or less.

Technical Note: An ' integrated navigation system' typically incorporates the following ''parts'' and ''components'':

1. An inertial measurement device (e.g., an attitude and heading reference system, inertial reference unit, or inertial navigation system);

2. One or more external sensors used to update the position and/or velocity, either periodically or continuously throughout the flight (e.g., satellite navigation receiver, radar altimeter, and/or Doppler radar); and

3. Integration hardware and software.

7A104 Gyro-astro compasses and other devices, other than those controlled by 7A004, which derive position or orientation by means of automatically tracking celestial bodies or satellites and "specially designed" "parts" and "components" therefor.

LICENSE REQUIREMENTS

Reason for Control: MT, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
MT applies to entire entry	MT Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: (1) See USML Categories IV and XV for certain 'star trackers' that are ''subject to the ITAR'' (see 22 CFR parts 120 through 130). (2) This entry controls ''specially designed'' ''parts'' and ''components'' for gyro-astro compasses and other devices controlled by 7A004.

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading.

7A105 Receiving equipment for Global Navigation Satellite Systems (GNSS) (e.g., GPS, GLONASS, or Galileo) designed or modified for airborne applications and capable of providing navigation information at speeds in excess of 600 m/s (1,165 nautical mph), and "specially designed" "parts" and "components" therefor.

LICENSE REQUIREMENTS

Reason for Control: MT, AT

Control(s)	Country chart
MT applies to entire entry	MT Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: (1) See also 7A005 and 7A994. (2) See Categories XI and XV of the U.S. Munitions List (22 CFR 121.1) for controls on similar equipment ''specially designed'' for defense articles.

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading.

7A106 Altimeters, other than those controlled by 7A006, of radar or laser radar type, designed or modified for use in "missiles". (These items are "subject to the ITAR." See 22 CFR parts 120 through 130.)

7A107 Three axis magnetic heading sensors having all of the following characteristics (see List of Items Controlled), and "specially designed" "parts" and "components" therefor.

LICENSE REQUIREMENTS

Reason for Control: MT, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
MT applies to entire entry	MT Column 1.
AT applies to entire entry	AT Column 1.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: a. Internal tilt compensation in pitch (±90 degrees) and roll (±180 degrees) axes;

b. Capable of providing azimuthal accuracy better (less) than 0.5 degrees rms at latitudes of ±80 degrees, referenced to local magnetic field; *and*

c. Designed or modified to be integrated with flight control and navigation systems.

Note: Flight control and navigation systems in 7A107 include gyrostabilizers, automatic pilots and inertial navigation systems.

7A115 Passive sensors for determining bearing to specific electromagnetic sources (direction finding equipment) or terrain characteristics, designed or modified for

use in "missiles". (These items are "subject to the ITAR." See 22 CFR parts 120 through 130.)

7A116 Flight control systems (pneumatic, hydraulic, mechanical, electro-optical, or electro-mechanical flight control systems (including fly-by-wire and fly-by-light systems) and attitude control equipment) designed or modified for "missiles". (These items are "subject to the ITAR". See 22 CFR parts 120 through 130.)

7A117 "Guidance sets" capable of achieving system accuracy of 3.33% or less of the range (e.g., a "CEP" of 10 km or less at a "range" of 300 km). (These items are "subject to the ITAR." See 22 CFR parts 120 through 130.)

7A611 Military fire control, laser, imaging, and guidance equipment, as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, MT, RS, AT, UN

Control(s)	Country chart (see supp. no. 1 to part 738)
NS applies to entire entry except 7A611.y.	NS Column 1.
MT applies to commodities in 7A611.a that meet or exceed the parameters in 7A103.b or .c.	MT Column 1.
RS applies to entire entry except 7A611.y.	RS Column 1.
AT applies to entire entry	AT Column 1.
UN applies to entire entry except 7A611.y.	See §746.1(b) for UN controls.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: $1500

GBS: N/A

CIV: N/A

SPECIAL CONDITIONS FOR STA

STA: Paragraph (c)(2) of License Exception STA (§740.20(c)(2) of the EAR) may not be used for any item in 7A611.

LIST OF ITEMS CONTROLLED

Related Controls: (1) Military fire control, laser, imaging, and guidance equipment that are enumerated in USML Category XII, and technical data (including software) directly related thereto, are subject to the ITAR. (2) See Related Controls in ECCNs 0A987, 2A984, 6A002, 6A003, 6A004, 6A005, 6A007, 6A008, 6A107, 7A001, 7A002, 7A003, 7A005, 7A101, 7A102, and 7A103. (3) See ECCN 3A611 and USML Category XI for controls on countermeasure equipment. (4) See ECCN 0A919 for foreign-made ''military commodities'' that incorporate more than a *de minimis* amount of U.S. origin ''600 series'' controlled content.

Related Definitions: N/A

Items:

a. Guidance or navigation systems, not elsewhere specified on the USML, that are ''specially designed'' for a defense article on the USML or for a 600 series item.

b. to w. [RESERVED]

x. ''Parts,'' ''components,'' ''accessories,'' and ''attachments,'' including accelerometers, gyros, angular rate sensors, gravity meters (gravimeters), and inertial measurement units (IMUs), that are ''specially designed'' for defense articles controlled by USML Category XII or items controlled by 7A611, and that are NOT:

1. Enumerated or controlled in the USML or elsewhere within ECCN 7A611;

2. Described in ECCNs 6A007, 6A107, 7A001, 7A002, 7A003, 7A101, 7A102 or 7A103; or

3. Elsewhere specified in ECCN 7A611.y or 3A611.y.

y. Specific ''parts,'' ''components,'' ''accessories,'' and ''attachments'' ''specially designed'' for a commodity subject to control in this ECCN or a defense article in Category XII and not elsewhere specified on the USML or in the CCL, as follows, and ''parts,'' ''components,'' ''accessories,'' and ''attachments'' ''specially designed'' therefor:

y.1 [RESERVED]

7A994 Other navigation direction finding equipment, airborne communication equipment, all aircraft inertial navigation systems not controlled under 7A003 or 7A103, and other avionic equipment, including "parts" and "components," n.e.s.

LICENSE REQUIREMENTS

Reason for Control: AT

Control(s)	Country chart (see supp. No. 1 to part 738)
AT applies to entire entry	AT Column 1.

License Requirement Notes:

Typically commercially available GPS do not employ decryption or adaptive antenna and are classified as 7A994.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: See 7A005 and 7A105.

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading.

B. ''TEST'', ''INSPECTION'' AND ''PRODUCTION EQUIPMENT''

7B001 Test, calibration or alignment equipment, "specially designed" for equipment controlled by 7A (except 7A994).

LICENSE REQUIREMENTS

Reason for Control: NS, MT, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 1
MT applies to entire entry	MT Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
LVS: N/A
GBS: N/A
CIV: N/A
LIST OF ITEMS CONTROLLED
Related Controls: (1) See also 7B101, 7B102 and 7B994.
(2) This entry does not control test, calibration or alignment equipment for 'Maintenance level I' or 'Maintenance Level II'.
Related Definition: (1) ''Maintenance Level I'': The failure of an inertial navigation unit is detected on the ''aircraft'' by indications from the Control and Display Unit (CDU) or by the status message from the corresponding sub-system. By following the manufacturer's manual, the cause of the failure may be localized at the level of the malfunctioning Line Replaceable Unit (LRU). The operator then removes the LRU and replaces it with a spare.
(2) ''Maintenance Level II'': The defective LRU is sent to the maintenance workshop (the manufacturer's or that of the operator responsible for level II maintenance). At the maintenance workshop, the malfunctioning LRU is tested by various appropriate means to verify and localize the defective Shop Replaceable Assembly (SRA) module responsible for the failure. This SRA is removed and replaced by an operative spare. The defective SRA (or possibly the complete LRU) is then shipped to the manufacturer. 'Maintenance Level II' does not include the disassembly or repair of controlled accelerometers or gyro sensors.
Items: The list of items controlled is contained in the ECCN heading.

7B002 Equipment "specially designed" to characterize mirrors for ring "laser" gyros, as follows (see List of Items Controlled).
LICENSE REQUIREMENTS
Reason for Control: NS, MT, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 1
MT applies to entire entry	MT Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
LVS: N/A
GBS: N/A
CIV: N/A
LIST OF ITEMS CONTROLLED
Related Controls: See also 7B102 and 7B994
Related Definitions: N/A
Items: a. Scatterometers having a measurement accuracy of 10 ppm or less (better);
b. Profilometers having a measurement accuracy of 0.5 nm (5 angstrom) or less (better).

7B003 Equipment "specially designed" for the "production" of equipment controlled by 7A (except 7A994).
LICENSE REQUIREMENTS
Reason for Control: NS, MT, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 1
MT applies to entire entry	MT Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
LVS: N/A
GBS: N/A
CIV: N/A
LIST OF ITEMS CONTROLLED
Related Controls: (1) See also 7B103, (this entry is ''subject to the ITAR'' (see 22 CFR parts 120 through 130)) and 7B994. (2) This entry includes: Inertial Measurement Unit (IMU module) tester; IMU platform tester; IMU stable element handling fixture; IMU platform balance fixture; gyro tuning test station; gyro dynamic balance station; gyro run-in/motor test station; gyro evacuation and fill station; centrifuge fixtures for gyro bearings; accelerometer axis align stations; accelerometer test station; and fiber optic gyro coil winding machines.
Related Definitions: N/A
Items: The list of items controlled is contained in the ECCN heading.

7B101 "Production equipment", and other test, calibration, and alignment equipment, other than that described in 2B119 to 2B122, 7B003, and 7B102, designed or modified to be used with equipment controlled by 7A001 to 7A004 or 7A101 to 7A104.
LICENSE REQUIREMENTS
Reason for Control: MT, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
MT applies to entire entry	MT Column 1.
AT applies to entire entry	AT Column 1.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
LVS: N/A
GBS: N/A
CIV: N/A
LIST OF ITEMS CONTROLLED
Related Controls: (1) *See also* 2B119 to 2B122, 7B003, 7B102, and 7B994.

(2) This entry includes: inertial measurement unit (IMU module) tester; IMU platform tester; IMU stable element handling fixture; IMU platform balance fixture; gyro tuning test station; gyro dynamic balance stations; gyro run-in/motor test stations; gyro evacuation and filling stations; centrifuge fixtures for gyro bearings; accelerometer axis align stations; and accelerometer test stations.

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading.

7B102 Equipment, other than those controlled by 7B002, designed or modified to characterize mirrors, for laser gyro equipment, as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: MT, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
MT applies to entire entry	MT Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: a. Scatterometers having a threshold accuracy of 10 ppm or less (better).

b. Reflectometers having a threshold accuracy of 50 ppm or less (better).

c. Prolifometers having a threshold accuracy of 0.5nm (5 angstrom) or less (better).

7B103 "Specially designed" "production facilities" for equipment controlled by 7A117. (These items are "subject to the ITAR." See 22 CFR parts 120 through 130.)

7B611 Test, inspection, and production commodities "specially designed" for military fire control, laser, imaging, and guidance equipment, as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, MT, RS, AT, UN

Control(s)	Country chart (see supp. no. 1 to part 738)
NS applies to entire entry	NS Column 1.
MT applies to 7B611.a commodities "specially designed" for 7A611.a commodities controlled for MT reasons.	MT Column 1.
RS applies to entire entry	RS Column 1.
AT applies to entire entry	AT Column 1.
UN applies to entire entry	See §746.1(b) for UN controls.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: $1500

GBS: N/A

CIV: N/A

SPECIAL CONDITIONS FOR STA

STA: Paragraph (c)(2) of License Exception STA (§740.20(c)(2) of the EAR) may not be used for any item in 7B611.

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items:

a. Test, inspection, and production end items and equipment ''specially designed'' for the ''development,'' ''production,'' repair, overhaul, or refurbishing of commodities controlled in ECCN 7A611 (except 7A611.y) or commodities in USML Category XII that are not enumerated in USML Category XII or controlled by another ''600 series'' ECCN.

b. Environmental test facilities ''specially designed'' for the certification, qualification, or testing of commodities controlled in ECCN 7A611 (except 7A611.y) or guidance equipment in USML Category XII that are not enumerated in USML Category XII or controlled by another ''600 series'' ECCN.

c. Field test equipment ''specially designed'' to evaluate or calibrate the operation of systems described in USML Category XII(a), (b), or (c).

d. to w. [RESERVED]

x. ''Parts,'' ''components,'' ''accessories,'' and ''attachments'' that are ''specially designed'' for a commodity listed in this entry and that are not enumerated on the USML or controlled by another ''600 series'' ECCN.

7B994 Other equipment for the test, inspection, or "production" of navigation and avionics equipment.

LICENSE REQUIREMENTS

Reason for Control: AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading

C. ''MATERIALS'' [RESERVED]

D. ''SOFTWARE''

7D001 "Software" "specially designed" or modified for the "development" or "production" of equipment controlled by 7A (except 7A994) or 7B (except 7B994).

LICENSE REQUIREMENTS

Reason for Control: NS, MT, RS, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to "software" for equipment controlled by 7A001 to 7A004, 7A006, 7A008, 7B001, 7B002 or 7B003.	NS Column 1.
MT applies to "software" for equipment controlled for MT reasons. MT does not apply to "software" for equipment controlled by 7A008.	MT Column 1.
RS applies to "software" for inertial navigation systems and inertial equipment, and "components" therefor, for "9A991.b aircraft".	RS Column 1
AT applies to entire entry	AT Column 1.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

LIST OF ITEMS CONTROLLED

Related Controls: (1) See also 7D101 and 7D994. (2) The ''software'' related to 7A003.b, 7A005, 7A103.b, 7A105, 7A106, 7A115, 7A116, 7A117, or 7B103 is ''subject to the ITAR'' (see 22 CFR parts 120 through 130). (3) ''Software'' for inertial navigation systems and inertial equipment and ''parts'' or ''components'' ''specially designed'' therefor that are directly related to defense articles and not ''specially designed'' for use on civil aircraft is ''subject to the ITAR'' (see 22 CFR parts 120 through 130).

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading

7D002 "Source code" for the operation or maintenance of any inertial navigation equipment, including inertial equipment not controlled by 7A003 or 7A004, or Attitude and Heading Reference Systems ('AHRS').

LICENSE REQUIREMENTS

Reason for Control: NS, MT, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 1
MT applies to entire entry	MT Column 1
AT applies to entire entry	AT Column 1

REPORTING REQUIREMENTS See §743.1 of the EAR for reporting requirements for exports under License Exceptions, and Validated End-User authorizations

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

LIST OF ITEMS CONTROLLED

Related Controls: (1) *See also 7D102* and *7D994*. (2) This entry does not control ''source code'' for the ''use'' of gimballed 'AHRS'.

Related Definition: 'AHRS' generally differ from Inertial Navigation Systems (INS) in that an 'AHRS' provides attitude and heading information and normally does not provide the acceleration, velocity and position information associated with an INS.

Items: The list of items controlled is contained in the ECCN heading

7D003 Other "software" as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, MT, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 1.
MT applies to "software" for equipment controlled for MT reasons. MT does not apply to "software" for equipment controlled by 7A008.	MT Column 1.
AT applies to entire entry	AT Column 1.

REPORTING REQUIREMENTS See §743.1 of the EAR for reporting requirements for exports under License Exceptions, and Validated End-User authorizations.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

SPECIAL CONDITIONS FOR STA

STA: License Exception STA may not be used to ship or transmit software in 7D003.a or .b to any of the destinations listed in Country Group A:6 (See Supplement No. 1 to part 740 of the EAR).

LIST OF ITEMS CONTROLLED

Related Controls: See also 0D521 No. 2 (''source code'' for the ''development'' of fly-by-wire control systems), 0E521 No. 6 (for ''technology'' for the ''development'' of ''software'' controlled by 0D521 No. 2), *7D103* and *7D994*

Related Definitions: 'Data-Based Referenced Navigation' ('DBRN') systems are systems which use various sources of previously measured geo-mapping data integrated to provide accurate navigation information under dynamic conditions. Data sources include bathymetric maps, stellar maps, gravity maps, magnetic maps or 3–D digital terrain maps.

Items: a. ''Software'' ''specially designed'' or modified to improve the operational performance or reduce the navigational error of systems to the levels controlled by 7A003, 7A004 or 7A008;

b. ''Source code'' for hybrid integrated systems which improves the operational performance or reduces the navigational error of systems to the level controlled by 7A003 or 7A008 by continuously combining heading data with any of the following:

b.1. Doppler radar or sonar velocity data;

b.2. Global Navigation Satellite Systems (GNSS) reference data; or

b.3. Data from 'Data-Based Referenced Navigation' ('DBRN'') systems;

c. [Reserved]

d. [Reserved]

N.B.: For flight control ''source code,'' see 7D004.

e. Computer-Aided-Design (CAD) ''software'' ''specially designed'' for the ''development'' of ''active flight control systems'', helicopter multi-axis fly-by-wire or fly-by-light controllers or helicopter ''circulation controlled anti-torque or circulation-controlled direction control systems'', whose ''technology'' is controlled by 7E004.b, 7E004.c.1 or 7E004.c.2.

7D004 "Source code" incorporating "development" "technology" specified by 7E004.a.1 to a.6 or 7E004.b, for any of the following: (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

SPECIAL CONDITIONS FOR STA

STA: License Exception STA may not be used to ship or transmit ''software'' in 7D004.a to .d and .g to any of the destinations listed in Country Group A:6 (See Supplement No. 1 to part 740 of the EAR).

LIST OF ITEMS CONTROLLED

Related Controls: See also 7D103 and 7D994

Related Definitions: N/A

Items: a. Digital flight management systems for ''total control of flight'';

b. Integrated propulsion and flight control systems;

c. ''Fly-by-wire systems'' or ''fly-by-light systems'';

d. Fault-tolerant or self-reconfiguring ''active flight control systems'';

e. [Reserved];

f. Air data systems based on surface static data; *or*

g. Three dimensional displays.

Note: 7D004 does not apply to ''source code'' associated with common computer elements and utilities (e.g., input signal acquisition, output signal transmission, computer program and data loading, built-in test, task scheduling mechanisms) not providing a specific flight control system function.

7D005 "Software" "specially designed" to decrypt Global Navigation Satellite Systems (GNSS) ranging signals designed for government use.

LICENSE REQUIREMENTS

Reason for Control: NS, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 1.
AT applies to entire entry	AT Column 1.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading.

7D101 "Software" "specially designed" or modified for the "use" of equipment controlled for missile technology (MT) reasons by 7A001 to 7A006, 7A101 to 7A107, 7A115, 7A116, 7A117, 7B001, 7B002, 7B003, 7B101, 7B102, or 7B103.

LICENSE REQUIREMENTS

Reason for Control: MT, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
MT applies to entire entry	MT Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

LIST OF ITEMS CONTROLLED

Related Controls: (1) The ''software'' related to 7A003.b, 7A005, 7A103.b, 7A105, 7A106, 7A115, 7A116, 7A117, or 7B103 is ''subject to the ITAR'' (see 22 CFR parts 120 through 130). (2) ''Software'' for inertial navigation systems and inertial equipment and ''parts'' and ''components'' ''specially designed'' therefor that are directly related to a defense article is ''subject to the ITAR'' (see 22 CFR parts 120 through 130).

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading

7D102 Integration "software", as follows (See List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: MT, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
MT applies to entire entry	MT Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

LIST OF ITEMS CONTROLLED

Related Controls: The ''software'' related to 7A003.b or 7A103.b is ''subject to the ITAR'' (see 22 CFR parts 120 through 130).

Related Definitions: N/A

Items: a. Integration ''software'' for the equipment controlled by 7A103.b.

b. Integration ''software'' ''specially designed'' for the equipment controlled by 7A003 or 7A103.a.

7D103 "Software" "specially designed" for modelling or simulation of the "guidance sets" controlled by 7A117 or for their design integration with "missiles". (This entry is "subject to the ITAR." See 22 CFR parts 120 through 130.)

7D611 "Software" "specially designed" for commodities controlled by 7A611 or equipment controlled by 7B611, as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, MT, RS, AT, UN

Control(s)	Country chart (see supp. no. 1 to part 738)
NS applies to entire entry except 7D611.y.	NS Column 1.
MT applies to 7D611.a ''software'' ''specially designed'' for 7A611.a commodities controlled for MT reasons.	MT Column 1.
RS applies to entire entry except 7D611.y.	RS Column 1.
AT applies to entire entry	AT Column 1.
UN applies to entire entry except 7D611.y.	See §746.1(b) for UN controls.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

SPECIAL CONDITIONS FOR STA

STA: Paragraph (c)(2) of License Exception STA (§740.20(c)(2) of the EAR) may not be used for any software in 7D611.

LIST OF ITEMS CONTROLLED

Related Controls: ''Software'' directly related to articles enumerated in USML Category XII is subject of USML paragraph XII(f).

Related Definitions: N/A

Items:

a. ''Software'' ''specially designed'' for the ''development,'' ''production,'' operation, or maintenance of commodities controlled by ECCNs 7A611 (except 7A611.y) or 7B611.

b. to x. [RESERVED]

y. Specific ''software'' ''specially designed'' for the ''development,'' ''production,'' operation, or maintenance of commodities described in 7A611.y.

7D994 "Software", n.e.s., for the "development", "production", or "use" of navigation, airborne communication and other avionics.

LICENSE REQUIREMENTS

Reason for Control: AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading.

E. ''TECHNOLOGY''

7E001 "Technology" According to the General Technology Note for the "Development" of Equipment or "Software", Specified by 7A. (except 7A994), 7B. (except 7B994), 7D001, 7D002, 7D003 or 7D005.

LICENSE REQUIREMENTS

Reason for Control: NS, MT, RS, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to ''technology'' for items controlled by 7A001 to 7A004, 7A006, 7A008, 7B001 to 7B003, 7D001 to 7D005.	NS Column 1.
MT applies to technology for equipment controlled for MT reasons. MT *does not* apply to ''technology'' for equipment controlled by 7A008. MT *does* apply to ''technology'' for equipment specified in 7A001, 7A002 or 7A003.d that meets or exceeds parameters of 7A101, 7A102 or 7A103.	MT Column 1.
RS applies to ''technology'' for inertial navigation systems or inertial equipment, and ''components'' therefor, for 9A991.b aircraft.	RS Column 1.
AT applies to entire entry	AT Column 1.

REPORTING REQUIREMENTS See §743.1 of the EAR for reporting requirements for exports under License Exceptions, and Validated End-User authorizations.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

SPECIAL CONDITIONS FOR STA

STA: License Exception STA may not be used to ship or transmit any technology in this entry to any of the destinations listed in Country Group A:6 (See Supplement No. 1 to part 740 of the EAR).

LIST OF ITEMS CONTROLLED

Related Controls: See also 0D521 No. 2 (''source code'' for the ''development'' of fly-by-wire control systems), 0E521 No. 6 (for ''technology'' for the ''development'' of ''software'' controlled by 0D521 No. 2), 7E101 and 7E994. (2) The ''technology'' related to 7A003.b, 7A005, 7A103.b, 7A105, 7A106, 7A115, 7A116, 7A117, 7B103, software in 7D101 specified in the Related Controls paragraph of ECCN 7D101, 7D102.a, or 7D103 is ''subject to the ITAR'' (see 22 CFR parts 120 through 130).

Related Definitions: Refer to the Related Definitions for 7B001 for 'Maintenance Level I' or 'Maintenance Level II'.

Items: The list of items controlled is contained in the ECCN heading

Note: 7E001 includes key management ''technology'' exclusively for equipment specified in 7A005.a.

7E002 "Technology" according to the General Technology Note for the "production" of equipment controlled by 7A (except 7A994) or 7B (except 7B994).

LICENSE REQUIREMENTS

Reason for Control: NS, MT, RS, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to ''technology'' for equipment controlled by 7A001 to 7A004, 7A006, 7A008 or 7B001 to 7B003.	NS Column 1.
MT applies to technology for equipment controlled for MT reasons. MT *does not* apply to ''technology'' for equipment controlled by 7A008. MT *does* apply to ''technology'' for equipment specified in 7A001, 7A002 or 7A003.d that meets or exceeds parameters of 7A101, 7A102 or 7A103.	MT Column 1.
RS applies to ''technology'' for inertial navigation systems or inertial equipment, and ''components'' therefor, for 9A991.b aircraft.	RS Column 1
AT applies to entire entry	AT Column 1.

REPORTING REQUIREMENTS See §743.1 of the EAR for reporting requirements for exports under License Exceptions, and Validated End-User authorizations.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

SPECIAL CONDITIONS FOR STA

STA: License Exception STA may not be used to ship or transmit any technology in this entry to any of the destinations listed in Country Group A:6 (See Supplement No. 1 to part 740 of the EAR).

LIST OF ITEMS CONTROLLED

Related Controls: (1) See also 7E102 and 7E994. (2) The ''technology'' related to 7A003.b, 7A005, 7A103.b, 7A105, 7A106, 7A115, 7A116, 7A117, or 7B103 is ''subject to the ITAR'' (see 22 CFR parts 120 through 130).

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading

7E003 "Technology" according to the General Technology Note for the repair, refurbishing or overhaul of equipment controlled by 7A001 to 7A004.

LICENSE REQUIREMENTS

Reason for Control: NS, MT, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 1
MT applies to entire entry	MT Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

LIST OF ITEMS CONTROLLED

Related Controls: See also 7E994. This entry does not control maintenance ''technology'' directly associated with calibration, removal or replacement of damaged or unserviceable LRUs and SRAs of a ''civil aircraft'' as described in ''Maintenance Level I or Maintenance Level II''.

Related Definition: Refer to the Related Definitions for 7B001 for 'Maintenance Level I' or 'Maintenance Level II'.

Items: The list of items controlled is contained in the ECCN heading

7E004 Other "technology" as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, MT, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 1.
MT applies to ''technology'' for equipment or systems controlled for MT reasons.	MT Column 1.

Control(s)	Country Chart (See Supp. No. 1 to part 738)
AT applies to entire entry	AT Column 1.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

SPECIAL CONDITIONS FOR STA

STA: (1) Paragraph (c)(1) of License Exception STA (§ 740.20(c)(1) of the EAR) may not be used for 7E004, except for 7E004.a.7. (2) Paragraph (c)(2) of License Exception STA (§ 740.20(c)(2) of the EAR) may not be used for 7E004, except for 7E004.a.7.

LIST OF ITEMS CONTROLLED

Related Controls: (1) See also 7E001, 7E002, 7E101, and 7E994. (2) In addition to the Related Controls in 7E001, 7E002, and 7E101 that include MT controls, also see the MT controls in 7E104 for design ''technology'' for the integration of the flight control, guidance, and propulsion data into a flight management system, designed or modified for rockets or missiles capable of achieving a ''range'' equal to or greater than 300 km, for optimization of rocket system trajectory; and also see 9E101 for design ''technology'' for integration of air vehicle fuselage, propulsion system and lifting control surfaces, designed or modified for unmanned aerial vehicles capable of achieving a ''range'' equal to or greater than 300 km, to optimize aerodynamic performance throughout the flight regime of an unmanned aerial vehicle.

Related Definitions: ''*Primary flight control*'' means an ''aircraft'' stability or maneuvering control using force/moment generators, i.e., aerodynamic control surfaces or propulsive thrust vectoring.

Items: a. ''Technology'' for the ''development'' or ''production'' of any of the following:

a.1. [Reserved]

a.2. Air data systems based on surface static data only, *i.e.*, which dispense with conventional air data probes;

a.3. Three dimensional displays for ''aircraft'';

a.4. [Reserved]

a.5. Electric actuators (*i.e.*, electromechanical, electrohydrostatic and integrated actuator package) ''specially designed'' for ''primary flight control'';

a.6. ''Flight control optical sensor array'' ''specially designed'' for implementing ''active flight control systems''; or

a.7. ''DBRN'' systems designed to navigate underwater, using sonar or gravity databases, that provide a positioning ''accuracy'' equal to or less (better) than 0.4 nautical miles;

b. ''Development'' ''technology'', as follows, for ''active flight control systems'' (including ''fly-by-wire systems'' or ''fly-by-light systems''):

b.1. Photonic-based ''technology'' for sensing ''aircraft'' or flight control component state, transferring flight control data, or commanding actuator movement, ''required'' for ''fly-by-light systems'' ''active flight control systems'';

b.2. [Reserved]

b.3. Real-time algorithms to analyze component sensor information to predict and preemptively mitigate impending degradation and failures of components within an ''active flight control system'';

Note: 7E004.b.3 does not include algorithms for purpose of off-line maintenance.

b.4. Real-time algorithms to identify component failures and reconfigure force and moment controls to mitigate ''active flight control system'' degradations and failures;

Note: 7E004.b.4 does not include algorithms for the elimination of fault effects through comparison of redundant data sources, or off-line preplanned responses to anticipated failures.

b.5. Integration of digital flight control, navigation and propulsion control data, into a digital flight management system for ''total control of flight'';

Note: 7E004.b.5 does not apply to:

1. ''Development'' ''technology'' for integration of digital flight control, navigation and propulsion control data, into a digital flight management system for ''flight path optimization'';

2. ''Development'' ''technology'' for ''aircraft'' flight instrument systems integrated solely for VOR, DME, ILS or MLS navigation or approaches.

b.6. [Reserved]

b.7. ''Technology'' ''required'' for deriving the functional requirements for ''fly-by-wire systems'' having all of the following:

b.7.a. 'Inner-loop' airframe stability controls requiring loop closure rates of 40 Hz or greater; *and*

Technical Note: 'Inner-loop' refers to functions of ''active flight control systems'' that automate airframe stability controls.

b.7.b. Having any of the following:

b.7.b.1. Corrects an aerodynamically unstable airframe, measured at any point in the design flight envelope, that would lose recoverable control if not corrected within 0.5 seconds;

b.7.b.2. Couples controls in two or more axes while compensating for 'abnormal changes in aircraft state';

Technical Note: 'Abnormal changes in aircraft state' include in-flight structural damage, loss of engine thrust, disabled control surface, or destabilizing shifts in cargo load.

b.7.b.3. Performs the functions specified in 7E004.b.5; *or*

NOTE: *7E004.b.7.b.3 does not apply to autopilots.*

b.7.b.4. Enables ''aircraft'' to have stable controlled flight, other than during take-off

or landing, at greater than 18 degrees angle of attack, 15 degrees side slip, 15 degrees/second pitch or yaw rate, or 90 degrees/second roll rate;

b.8. ''Technology'' ''required'' for deriving the functional requirements of ''fly-by-wire systems'' to achieve all of the following:

b.8.a. No loss of control of the ''aircraft'' in the event of a consecutive sequence of any two individual faults within the ''fly-by-wire system''; *and*

b.8.b. Probability of loss of control of the ''aircraft'' being less (better) than 1×10^{-9} failures per flight hour;

Note: 7E004.b does not apply to ''technology'' associated with common computer elements and utilities (e.g., input signal acquisition, output signal transmission, computer program and data loading, built-in test, task scheduling mechanisms) not providing a specific flight control system function.

c. ''Technology'' for the ''development'' of helicopter systems, as follows:

c.1. Multi-axis fly-by-wire or fly-by-light controllers, which combine the functions of at least two of the following into one controlling element:

c.1.a. Collective controls;

c.1.b. Cyclic controls;

c.1.c. Yaw controls;

c.2. ''Circulation-controlled anti-torque or circulation-controlled direction control systems'';

c.3. Rotor blades incorporating ''variable geometry airfoils'', for use in systems using individual blade control.

7E101 "Technology," according to the General Technology Note for the "use" of equipment controlled by 7A001 to 7A006, 7A101 to 7A107, 7A115 to 7A117, 7B001, 7B002, 7B003, 7B101, 7B102, 7B103, or 7D101 to 7D103 for MT reasons.

LICENSE REQUIREMENTS

Reason for Control: MT, RS, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
MT applies to entire entry	MT Column 1
RS applies to ''technology'' required for the use of inertial navigation systems, or inertial equipment, or ''specially designed'' ''parts'' and ''components'' therefor, ''specially designed'' for 9A991.b aircraft.	RS Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

LIST OF ITEMS CONTROLLED

Related Controls: The ''technology'' related to 7A003.b, 7A005, 7A103.b, 7A105, 7A106, 7A115, 7A116, 7A117, 7B103, software specified in the Related Controls paragraph of ECCN 7D101, 7D102.a, or 7D103 is ''subject to the ITAR'' (see 22 CFR parts 120 through 130).

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading

7E102 "Technology" for protection of avionics and electrical subsystems against electromagnetic pulse (EMP) and electromagnetic interference (EMI) hazards, from external sources, as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: MT, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
MT applies to entire entry	MT Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: a. Design ''technology'' for shielding systems;

b. Design ''technology'' for the configuration of hardened electrical circuits and subsystems;

c. Design ''technology'' for the determination of hardening criteria of .a and .b of this entry.

7E104 Design "Technology" for the integration of the flight control, guidance, and propulsion data into a flight management system, designed or modified for rockets or missiles capable of achieving a "range" equal to or greater than 300 km, for optimization of rocket system trajectory. (This entry is "subject to the ITAR." See 22 CFR parts 120 through 130.)

7E611 "Technology" "required" for the "development," "production," operation, installation, maintenance, repair, overhaul or refurbishing of commodities controlled by 7A611, commodities controlled by 7B611, or software controlled by 7D611, as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, MT, RS, AT, UN

Control(s)	Country chart (see supp. no. 1 to part 738)
NS applies to entire entry except 7E611.y.	NS Column 1.
MT applies to ''technology'' in 7E611.a if ''required'' for items controlled for MT reasons in 7A611.a, 7B611.a, or 7D611.a.	MT Column 1.

Control(s)	Country chart (see supp. no. 1 to part 738)
RS applies to entire entry except 7E611.y.	RS Column 1.
AT applies to entire entry	AT Column 1.
UN applies to entire entry except 7E611.y.	See §746.1(b) for UN controls.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

SPECIAL CONDITIONS FOR STA

STA: Paragraph (c)(2) of License Exception STA (§740.20(c)(2) of the EAR) may not be used for any technology in 7E611.

LIST OF ITEMS CONTROLLED

Related Controls: Technical data directly related to articles enumerated in USML Category XII are subject to the control of USML Category XII(f).

Related Definitions: N/A

Items:

a. ''Technology'' ''required'' for the ''development,'' ''production,'' operation, installation, maintenance, repair, overhaul, or refurbishing of commodities or ''software'' controlled by ECCN 7A611 (except 7A611.y), 7B611, or 7D611 (except 7D611.y).

b. through .x [RESERVED]

y. Specific ''technology'' ''required'' for the ''production,'' ''development,'' operation, installation, maintenance, repair, or overhaul of commodities or software controlled by ECCNs 7A611.y or 7D611.y.

7E994 "Technology", n.e.s., for the "development", "production", or "use" of navigation, airborne communication, and other avionics equipment.

LICENSE REQUIREMENTS

Reason for Control: AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading

EAR99 Items subject to the EAR that are not elsewhere specified in this CCL Category or in any other category in the CCL are designated by the number EAR99.

CATEGORY 8—MARINE

A. ''END ITEMS'', ''EQUIPMENT'', ''ACCESSORIES'', ''ATTACHMENTS'', ''PARTS'', ''COMPONENTS'' AND ''SYSTEMS''

8A001 Submersible vehicles and surface vessels, as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 2
AT applies to entire entry	AT Column 1

REPORTING REQUIREMENTS See §743.1 of the EAR for reporting requirements for exports under License Exceptions, and Validated End-User authorizations

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: $5000; N/A for 8A001.b and .d

GBS: N/A

CIV: N/A

SPECIAL CONDITIONS FOR STA

STA: License Exception STA may not be used to ship any commodity in 8A001.b, 8A001.c or 8A001.d to any of the destinations listed in Country Group A:6 (See Supplement No. 1 to part 740 of the EAR).

LIST OF ITEMS CONTROLLED

Related Controls: For the control status of equipment for submersible vehicles, see: Category 6 for sensors; Categories 7 and 8 for navigation equipment; Category 8A for underwater equipment.

Related Definitions: N/A

Items: a. Manned, tethered submersible vehicles designed to operate at depths exceeding 1,000 m;

b. Manned, untethered submersible vehicles having any of the following:

b.1. Designed to 'operate autonomously' and having a lifting capacity of all the following:

b.1.a. 10% or more of their weight in air; and

b.1.b. 15 kN or more;

b.2. Designed to operate at depths exceeding 1,000 m; or

b.3. Having all of the following:

b.3.a. Designed to continuously 'operate autonomously' for 10 hours or more; and

b.3.b. 'Range' of 25 nautical miles or more;

Technical Notes: 1. For the purposes of 8A001.b, 'operate autonomously' means fully submerged, without snorkel, all systems working and cruising at minimum speed at which the submersible can safely control its depth dynamically by using its depth planes only, with no need for a support vessel or support base on the surface, sea-bed or shore, and containing a propulsion system for submerged or surface use.

2. For the purposes of 8A001.b, 'range' means half the maximum distance a submersible vehicle can 'operate autonomously'.

c. Unmanned, tethered submersible vehicles designed to operate at depths exceeding 1,000 m and having any of the following:

c.1. Designed for self-propelled maneuver using propulsion motors or thrusters controlled by 8A002.a.2; *or*

c.2. Fiber optic data link;

d. Unmanned, untethered submersible vehicles having any of the following:

d.1. Designed for deciding a course relative to any geographical reference without real-time human assistance;

d.2. Acoustic data or command link; *or*

d.3. Optical data or command link exceeding 1,000 m;

e. Ocean salvage systems with a lifting capacity exceeding 5 MN for salvaging objects from depths exceeding 250 m and having any of the following:

e.1. Dynamic positioning systems capable of position keeping within 20 m of a given point provided by the navigation system; *or*

e.2. Seafloor navigation and navigation integration systems, for depths exceeding 1,000 m and with positioning ''accuracies'' to within 10 m of a predetermined point.

8A002 Marine systems, equipment, "parts" and "components," as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 2
AT applies to entire entry	AT Column 1

REPORTING REQUIREMENTS See §743.1 of the EAR for reporting requirements for exports under License Exceptions, and Validated End-User authorizations

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS:$5000; N/A for 8A002.o.3.b

GBS: Yes for manipulators for civil end uses (*e.g.*, underwater oil, gas or mining operations) controlled by 8A002.i.2 and having 5 degrees of freedom of movement; and 8A002.r.

CIV: Yes for manipulators for civil end uses (*e.g.*, underwater oil, gas or mining operations) controlled by 8A002.i.2 and having 5 degrees of freedom of movement; and 8A002.r.

SPECIAL CONDITIONS FOR STA

STA: License Exception STA may not be used to ship any commodity in 8A002.b, h, j, o.3, or p to any of the destinations listed in Country Group A:6 (See Supplement No. 1 to part 740 of the EAR).

LIST OF ITEMS CONTROLLED

Related Controls: (1) See also 8A992 and for underwater communications systems, see Category 5, Part I—Telecommunications. (2) See also 8A992 for self-contained underwater breathing apparatus that is not controlled by 8A002 or released for control by the 8A002.q Note. (3) For electronic imaging systems ''specially designed'' or modified for underwater use incorporating image intensifier tubes specified by 6A002.a.2.a or 6A002.a.2.b, see 6A003.b.3. (4) For electronic imaging systems ''specially designed'' or modified for underwater use incorporating ''focal plane arrays'' specified by 6A002.a.3.g, see 6A003.b.4.c. (5) Section 744.9 imposes a license requirement on commodities described in 8A002.d if being exported, reexported, or transferred (in-country) for use by a military end-user or for incorporation into an item controlled by ECCN 0A919.

Related Definitions: N/A

Items: a. Systems, equipment, ''parts'' and ''components,'' ''specially designed'' or modified for submersible vehicles and designed to operate at depths exceeding 1,000 m, as follows:

a.1. Pressure housings or pressure hulls with a maximum inside chamber diameter exceeding 1.5 m;

a.2. Direct current propulsion motors or thrusters;

a.3. Umbilical cables, and connectors therefor, using optical fiber and having synthetic strength members;

a.4. ''Parts'' and ''components'' manufactured from material specified by ECCN 8C001;

Technical Note: The objective of 8A002.a.4 should not be defeated by the export of 'syntactic foam' controlled by 8C001 when an intermediate stage of manufacture has been performed and it is not yet in its final component form.

b. Systems ''specially designed'' or modified for the automated control of the motion of submersible vehicles controlled by 8A001, using navigation data, having closed loop servo-controls and having any of the following:

b.1. Enabling a vehicle to move within 10 m of a predetermined point in the water column;

b.2. Maintaining the position of the vehicle within 10 m of a predetermined point in the water column; *or*

b.3. Maintaining the position of the vehicle within 10 m while following a cable on or under the seabed;

c. Fiber optic pressure hull penetrators;

d. Underwater vision systems ''specially designed'' or modified for remote operation with an underwater vehicle, employing techniques to minimize the effects of back scatter and including range-gated illuminators or ''laser'' systems;

e. to f. [Reserved]

g. Light systems ''specially designed'' or modified for underwater use, as follows:

g.1. Stroboscopic light systems capable of a light output energy of more than 300 J per flash and a flash rate of more than 5 flashes per second;

g.2. Argon arc light systems ''specially designed'' for use below 1,000 m;

h. ''Robots'' ''specially designed'' for underwater use, controlled by using a dedicated computer and having any of the following:

h.1. Systems that control the ''robot'' using information from sensors which measure force or torque applied to an external object, distance to an external object, or tactile sense between the ''robot'' and an external object; *or*

h.2. The ability to exert a force of 250 N or more or a torque of 250 Nm or more and using titanium based alloys or ''composite'' ''fibrous or filamentary materials'' in their structural members;

i. Remotely controlled articulated manipulators ''specially designed'' or modified for use with submersible vehicles and having any of the following:

i.1. Systems which control the manipulator using information from sensors which measure any of the following:

i.1.a. Torque or force applied to an external object; *or*

i.1.b. Tactile sense between the manipulator and an external object; or

i.2. Controlled by proportional master-slave techniques and having 5 degrees of 'freedom of movement' or more;

Technical Note: Only functions having proportionally related motion control using positional feedback are counted when determining the number of degrees of 'freedom of movement'.

j. Air independent power systems ''specially designed'' for underwater use, as follows:

j.1. Brayton or Rankine cycle engine air independent power systems having any of the following:

j.1.a. Chemical scrubber or absorber systems, ''specially designed'' to remove carbon dioxide, carbon monoxide and particulates from recirculated engine exhaust;

j.1.b. Systems ''specially designed'' to use a monoatomic gas;

j.1.c. Devices or enclosures, ''specially designed'' for underwater noise reduction in frequencies below 10 kHz, or special mounting devices for shock mitigation; or

j.1.d. Systems having all of the following:

j.1.d.1. ''specially designed'' to pressurize the products of reaction or for fuel reformation;

j.1.d.2. ''specially designed'' to store the products of the reaction; and

j.1.d.3. ''Specially designed'' to discharge the products of the reaction against a pressure of 100 kPa or more;

j.2. Diesel cycle engine air independent systems having all of the following:

j.2.a. Chemical scrubber or absorber systems, ''specially designed'' to remove carbon dioxide, carbon monoxide and particulates from recirculated engine exhaust;

j.2.b. Systems ''specially designed'' to use a monoatomic gas;

j.2.c. Devices or enclosures, ''specially designed'' for underwater noise reduction in frequencies below 10 kHz, or special mounting devices for shock mitigation; and

j.2.d. ''Specially designed'' exhaust systems that do not exhaust continuously the products of combustion;

j.3. Fuel cell air independent power systems with an output exceeding 2 kW and having any of the following:

j.3.a. Devices or enclosures, ''specially designed'' for underwater noise reduction in frequencies below 10 kHz, or special mounting devices for shock mitigation; or

j.3.b. Systems having all of the following:

j.3.b.1. ''Specially designed'' to pressurize the products of reaction or for fuel reformation;

j.3.b.2. ''Specially designed'' to store the products of the reaction; and

j.3.b.3. ''Specially designed'' to discharge the products of the reaction against a pressure of 100 kPa or more;

j.4. Stirling cycle engine air independent power systems having all of the following:

j.4.a. Devices or enclosures, ''specially designed'' for underwater noise reduction in frequencies below 10 kHz, or special mounting devices for shock mitigation; and

j.4.b. ''Specially designed'' exhaust systems which discharge the products of combustion against a pressure of 100 kPa or more;

k. through n. [Reserved]

o. Propellers, power transmission systems, power generation systems and noise reduction systems, as follows:

o.1. [Reserved]

o.2. Water-screw propeller, power generation systems or transmission systems, designed for use on vessels, as follows:

o.2.a. Controllable-pitch propellers and hub assemblies, rated at more than 30 MW;

o.2.b. Internally liquid-cooled electric propulsion engines with a power output exceeding 2.5 MW;

o.2.c. ''Superconductive'' propulsion engines or permanent magnet electric propulsion engines, with a power output exceeding 0.1 MW;

o.2.d. Power transmission shaft systems incorporating ''composite'' material ''parts'' or ''components'' and capable of transmitting more than 2 MW;

o.2.e. Ventilated or base-ventilated propeller systems, rated at more than 2.5 MW;

o.3. Noise reduction systems designed for use on vessels of 1,000 tonnes displacement or more, as follows:

o.3.a. Systems that attenuate underwater noise at frequencies below 500 Hz and consist

of compound acoustic mounts for the acoustic isolation of diesel engines, diesel generator sets, gas turbines, gas turbine generator sets, propulsion motors or propulsion reduction gears, ''specially designed'' for sound or vibration isolation and having an intermediate mass exceeding 30% of the equipment to be mounted;

o.3.b. 'Active noise reduction or cancellation systems' or magnetic bearings, ''specially designed'' for power transmission systems;

Technical Note: 'Active noise reduction or cancellation systems' incorporate electronic control systems capable of actively reducing equipment vibration by the generation of anti-noise or anti-vibration signals directly to the source.

p. Pumpjet propulsion systems having all of the following:

p.1. Power output exceeding 2.5 MW; *and*

p.2. Using divergent nozzle and flow conditioning vane techniques to improve propulsive efficiency or reduce propulsion-generated underwater-radiated noise;

q. Underwater swimming and diving equipment as follows;

q.1. Closed circuit rebreathers;

q.2. Semi-closed circuit rebreathers;

Note: 8A002.q does not control individual rebreathers for personal use when accompanying their users.

N.B. For equipment and devices ''specially designed'' for military use see ECCN 8A620.f.

r. Diver deterrent acoustic systems ''specially designed'' or modified to disrupt divers and having a sound pressure level equal to or exceeding 190 dB (reference 1 μPa at 1 m) at frequencies of 200 Hz and below.

Note 1: 8A002.r does not apply to diver deterrent systems based on under-water-explosive devices, air guns or combustible sources.

Note 2: 8A002.r includes diver deterrent acoustic systems that use spark gap sources, also known as plasma sound sources.

8A018 Items on the Wassenaar Arrangement Munitions List.

No items currently are in this ECCN. See ECCN 8A609 for engines and propulsion systems and ''specially designed'' ''components'' therefor that, immediately prior to January 6, 2014, were classified under ECCN 8A018.b.3. See ECCN 8A620 for closed and semi-closed circuit (rebreathing) apparatus, engines and propulsion systems for submersible vessels (diesel engines of 1,500 hp and over with rotary speed of 700 rpm or over ''specially designed'' for submarines), submarine and torpedo nets, and ''specially designed'' ''components'' therefor that, immediately prior to January 6, 2014, were classified under ECCN 8A018.a, .b.1, or .b.4, respectively. See ECCNs 8A001, 8A002 and 8A992 for controls on non-military submersible vehicles, oceanographic and associated equipment. See USML Category XX (22 CFR part 121) for electric motors ''specially designed'' for submarines that, immediately prior to January 6, 2014, were classified under ECCN 8A018.b.2.

8A609 Surface vessels of war and related commodities (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, RS, AT, UN

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry, except 8A609.y.	NS Column 1
RS applies to entire entry, except 8A609.y.	RS Column 1
AT applies to entire entry	AT Column 1
UN applies to entire entry, except 8A609.y.	See §746.1(b) for UN controls

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: $1500

GBS: N/A

CIV: N/A

SPECIAL CONDITIONS FOR STA

STA: (1) Paragraph (c)(1) of License Exception STA (§740.20(c)(1) of the EAR) may not be used for any item in 8A609.a, unless determined by BIS to be eligible for License Exception STA in accordance with §740.20(g) (License Exception STA eligibility requests for ''600 series'' end items). (2) Paragraph (c)(2) of License Exception STA (§740.20(c)(2) of the EAR) may not be used for any item in 8A609.

LIST OF ITEMS CONTROLLED

Related Controls: (1) Surface vessels of war and special naval equipment, and technical data (including software), and services directly related thereto, described in 22 CFR part 121, Category VI, Surface Vessels of War and Special Naval Equipment, are subject to the jurisdiction of the International Traffic in Arms Regulations. (2) See ECCN 0A919 for foreign-made ''military commodities'' that incorporate more than a *de minimis* amount of U.S.-origin ''600 series'' controlled content. (3) For controls on diesel engines and electric motors for surface vessels of war subject to the EAR, see ECCN 8A992.g. (4) For controls on military gas turbine engines and related items for vessels of war, see ECCN 9A619.

Related Definitions: N/A

Items: a. Surface vessels of war ''specially designed'' for a military use and not enumerated or otherwise described in the USML.

Note 1: 8A609.a includes: (i) Underway replenishment ships; (ii) surface vessel and submarine tender and repair ships, except vessels that are ''specially designed'' to support naval nuclear propulsion plants; (iii) non-submersible submarine rescue ships; (iv) other auxiliaries (e.g., AGDS, AGF, AGM, AGOR, AGOS, AH, AP, ARL, AVB, AVM, and AVT); (v) amphibious warfare craft, except those that are armed; and (vi) unarmored and unarmed coastal, patrol,

roadstead, and Coast Guard and other patrol craft with mounts or hard points for firearms of .50 caliber or less.

Note 2: For purposes of paragraph .a, surface vessels of war includes vessels ''specially designed'' for military use that are not identified in paragraph (a) of ITAR §121.15, including any demilitarized vessels, regardless of origin or designation, manufactured prior to 1950 and that have not been modified since 1949. For purposes of this note, the term modified does not include incorporation of safety features required by law, cosmetic changes (e.g., different paint), or the addition of ''parts'' or ''components'' available prior to 1950.

b. Non-magnetic diesel engines with a power output of 50 hp or more and either of the following:

b.1. Non-magnetic content exceeding 25% of total weight; *or*

b.2. Non-magnetic parts other than crankcase, block, head, pistons, covers, end plates, valve facings, gaskets, and fuel, lubrication and other supply lines.

c. through w. [Reserved]

x. ''Parts,'' ''components,'' ''accessories'' and ''attachments'' that are ''specially designed'' for a commodity enumerated or otherwise described in ECCN 8A609 (except for 8A609.y) or a defense article enumerated or otherwise described in USML Category VI and not elsewhere specified on the USML, in 8A609.y or 3A611.y.

y. Specific ''parts,'' ''components,'' ''accessories,'' and ''attachments'' ''specially designed'' for a commodity subject to control in this ECCN or for a defense article in USML Category VI and not elsewhere specified in the USML, as follows, and ''parts,'' ''components,'' ''accessories,'' and ''attachments'' ''specially designed'' therefor:

y.1. Public address (PA) systems;

y.2. Filters and filter assemblies, hoses, lines, fittings, couplings, and brackets for pneumatic, hydraulic, oil and fuel systems;

y.3. Galleys;

y.4. Lavatories;

y.5. Magnetic compass, magnetic azimuth detector;

y.6. Medical facilities;

y.7. Potable water tanks, filters, valves, hoses, lines, fittings, couplings, and brackets;

y.8. Panel knobs, indicators, switches, buttons, and dials whether unfiltered or filtered for use with night vision imaging systems;

y.9. Emergency lighting;

y.10. Gauges and indicators;

y.11. Audio selector panels.

8A620 Submersible vessels, oceanographic and associated commodities (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, RS, AT, UN

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry, except 8A620. b and .y.	NS Column 1
RS applies to entire entry, except 8A620.y.	RS Column 1
AT applies to entire entry	AT Column 1
UN applies to entire entry, except 8A620.y.	See §746.1(b) for UN controls

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: $1500

GBS: N/A

CIV: N/A

SPECIAL CONDITIONS FOR STA

STA: (1) Paragraph (c)(1) of License Exception STA (§740.20(c)(1) of the EAR) may not be used for any item in 8A620.a or .b, unless determined by BIS to be eligible for License Exception STA in accordance with §740.20(g) (License Exception STA eligibility requests for ''600 series'' end items). (2) Paragraph (c)(2) of License Exception STA (§740.20(c)(2) of the EAR) may not be used for any item in 8A620.

LIST OF ITEMS CONTROLLED

Related Controls: (1) Submersible vessels, oceanographic and associated equipment, and technical data (including software), and services directly related thereto, described in 22 CFR part 121, Category XX, Submersible Vessels, Oceanographic and Associated Equipment, are subject to the jurisdiction of the International Traffic in Arms Regulations (ITAR). ''Parts,'' ''components,'' ''accessories,'' and ''attachments'' ''specially designed'' for defense articles in USML Category XX are controlled under USML sub-category XX(c). (2) See ECCN 0A919 for foreign-made ''military commodities'' that incorporate more than a *de minimis* amount of U.S.-origin ''600 series'' controlled content. (3) For controls on non-military submersible vehicles, oceanographic and associated equipment, see ECCNs 8A001, 8A002, and 8A992. (4) See ECCN 8A609 for controls on non-magnetic diesel engines with a power output of 50 hp or more and either: (i) non-magnetic content exceeding 25% of total weight; or (ii) non-magnetic parts other than crankcase, block, head, pistons, covers, end plates, valve facings, gaskets, and fuel, lubrication and other supply lines.

Related Definitions: N/A

Items: a. Submersible and semi-submersible vessels ''specially designed'' for a military use and not enumerated or otherwise described in the USML.

Note: 8A620.a includes submarine rescue vehicles and Deep Submergence Vehicles (DSV).

b. Submersible and semi-submersible vessels ''specially designed'' for cargo transport and ''parts,'' ''components,'' ''accessories,''

and ''attachments'' ''specially designed'' therefor.

c. Harbor entrance detection devices (magnetic, pressure, and acoustic) and controls therefor, not elsewhere specified on the USML or the CCL.

d. Diesel engines of 1,500 hp and over with rotary speed of 700 rpm or over ''specially designed'' for submarines.

Note: Propulsion systems not specified in ECCN 8A620.d that are ''specially designed'' for an article controlled by USML Category XX are controlled by USML XX(b) or (c).

e. Submarine nets and torpedo nets.

f. Diving and underwater swimming apparatus specially designed or modified for military use, as follows:

f.1. Self-contained diving rebreathers, closed or semi-closed circuit;

f.2. Underwater swimming apparatus specially designed for use with the diving apparatus specified in subparagraph f.1;

N.B.: See also 8A002.q.

g. through w. [Reserved]

x. ''Parts,'' ''components,'' ''accessories'' and ''attachments'' that are ''specially designed'' for a commodity enumerated or otherwise described in ECCN 8A620 (except for 8A620.b or 8A620.y) and not elsewhere specified on the USML, in 8A620.y or 3A611.y.

y. Specific ''parts,'' ''components,'' ''accessories,'' and ''attachments'' ''specially designed'' for a commodity subject to control in this ECCN, as follows, and ''parts,'' ''components,'' ''accessories,'' and ''attachments'' ''specially designed'' therefor:

y.1. Public address (PA) systems;

y.2. Filters and filter assemblies, hoses, lines, fittings, couplings, and brackets for pneumatic, hydraulic, oil and fuel systems;

y.3. Galleys;

y.4. Lavatories;

y.5. Magnetic compass, magnetic azimuth detector;

y.6. Medical facilities;

y.7. Potable water tanks, filters, valves, hoses, lines, fittings, couplings, and brackets;

y.8. Panel knobs, indicators, switches, buttons, and dials whether unfiltered or filtered for use with night vision imaging systems;

y.9. Emergency lighting;

y.10. Gauges and indicators;

y.11. Audio selector panels.

8A992 Vessels, marine systems or equipment, not controlled by 8A001 or 8A002, and "specially designed" "parts" and "components" therefor, and marine boilers and "parts," "components," "accessories," and "attachments" therefor (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: AT, Foreign policy

Control(s)	Country chart (see Supp. No. 1 to part 738)
AT applies to entire entry	AT Column 1
Russian industry sector sanctions apply to entire entry.	See §746.5 for specific license requirements and license review policy.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: 1. See also 8A002. 2. Marine gas turbine engines are not controlled in paragraph .g of this entry. See ECCN 9A619 for possible controls on marine gas turbine engines specially designed for a military use. See ECCN 9A002 for possible controls on marine gas turbine engines not specially designed for a military use. Marine gas turbine engines subject to the EAR that are not controlled in ECCNs 9A002 or 9A619 are designated EAR99.

Related Definitions: N/A

Items: a. Underwater vision systems, as follows:

a.1. Television systems (comprising camera, lights, monitoring and signal transmission equipment) having a limiting resolution when measured in air of more than 500 lines and ''specially designed'' or modified for remote operation with a submersible vehicle; *or*

a.2. Underwater television cameras having a limiting resolution when measured in air of more than 700 lines;

Technical Note: Limiting resolution in television is a measure of horizontal resolution usually expressed in terms of the maximum number of lines per picture height discriminated on a test chart, using IEEE Standard 208/1960 or any equivalent standard.

b. Photographic still cameras ''specially designed'' or modified for underwater use, having a film format of 35 mm or larger, and having autofocusing or remote focusing ''specially designed'' for underwater use;

c. Stroboscopic light systems, ''specially designed'' or modified for underwater use, capable of a light output energy of more than 300 J per flash;

d. Other underwater camera equipment, n.e.s.;

e. Other submersible systems, n.e.s.;

f. Vessels, n.e.s., including inflatable boats, and ''specially designed'' ''parts'' and ''components'' therefor, n.e.s.;

g. Marine engines (both inboard and outboard) and submarine engines, n.e.s.; and ''specially designed'' ''parts'' and ''components'' therefor, n.e.s.;

h. Other self-contained underwater breathing apparatus (scuba gear) and related equipment, n.e.s.;

i. Life jackets, inflation cartridges, compasses, wetsuits, masks, fins, weight belts, and dive computers;

j. Underwater lights and propulsion equipment;

k. Air compressors and filtration systems ''specially designed'' for filling air cylinders.

l. Marine boilers designed to have any of the following characteristics:

l.1. Heat release rate (at maximum rating) equal to or in excess of 190,000 BTU per hour per cubic foot of furnace volume; *or*

l.2. Ratio of steam generated in pounds per hour (at maximum rating) to the dry weight of the boiler in pounds equal to or in excess of 0.83.

m. Major ''components,'' ''accessories,'' and ''attachments'' for marine boilers described in 8A992.l.

B. ''TEST'', ''INSPECTION'' AND ''PRODUCTION EQUIPMENT''

8B001 Water tunnels having a background noise of less than 100 dB (reference 1 μPa, 1 Hz) in the frequency range from 0 to 500 Hz and designed for measuring acoustic fields generated by a hydro-flow around propulsion system models.

LICENSE REQUIREMENTS

Reason for Control: NS, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 2
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: $3000

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading

8B609 Test, inspection, and production "equipment" and related commodities "specially designed" for the "development," "production," repair, overhaul or refurbishing of commodities enumerated or otherwise described in ECCN 8A609 or USML Category VI (except for Cat VI(f)(7)), as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, RS, AT, UN

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 1
RS applies to entire entry	RS Column 1
AT applies to entire entry	AT Column 1
UN applies to entire entry	See §746.1(b) for UN controls

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: $1500

GBS: N/A

CIV: N/A

SPECIAL CONDITIONS FOR STA

STA: Paragraph (c)(2) of License Exception STA (§740.20(c)(2) of the EAR) may not be used for any item in 8B609.

LIST OF ITEMS CONTROLLED

Related Controls: See ECCN 0A919 for foreign-made ''military commodities'' that incorporate more than a *de minimis* amount of U.S.-origin ''600 series'' controlled content.

Related Definitions: N/A

Items: a. Test, inspection, and production ''equipment'' ''specially designed'' for the ''development,'' ''production,'' repair, overhaul, or refurbishing of commodities enumerated or otherwise described in ECCN 8A609 (except for 8A609.y) or in USML Category VI (except for USML Cat VI(f)(7)), and ''parts,'' ''components,'' ''accessories,'' and ''attachments'' ''specially designed'' therefor.

b. [Reserved]

8B620 Test, inspection, and production "equipment" and related commodities "specially designed" for the "development," "production," repair, overhaul, or refurbishing of commodities enumerated or otherwise described in ECCN 8A620 (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, RS, AT, UN

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry, except 8B620.b.	NS Column 1
RS applies to entire entry	RS Column 1
AT applies to entire entry	AT Column 1
UN applies to entire entry	See §746.1(b) for UN controls

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: $1500

GBS: N/A

CIV: N/A

SPECIAL CONDITIONS FOR STA

STA: Paragraph (c)(2) of License Exception STA (§740.20(c)(2) of the EAR) may not be used for any item in 8B620.

LIST OF ITEMS CONTROLLED

Related Controls: See ECCN 0A919 for foreign-made ''military commodities'' that incorporate more than a *de minimis* amount of U.S.-origin ''600 series'' controlled content.

Related Definitions: N/A

Items: a. Test, inspection and production ''equipment'' ''specially designed'' for the ''development,'' ''production,'' repair, overhaul or refurbishing of commodities enumerated or otherwise described in ECCN 8A620

(except for 8A620.b and .y) and ''parts,'' ''components,'' ''accessories,'' and ''attachments'' ''specially designed'' therefor.

b. Test, inspection, and production ''equipment'' ''specially designed'' for the ''development,'' ''production,'' repair, overhaul, or refurbishing of commodities enumerated or otherwise described in ECCN 8A620.b and ''parts,'' ''components,'' ''accessories,'' and ''attachments'' ''specially designed'' therefor.

C. ''MATERIALS''

8C001 'Syntactic foam' designed for underwater use and having all of the following (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 2
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: See also 8A002.a.4.

Related Definition: 'Syntactic foam' consists of hollow spheres of plastic or glass embedded in a resin matrix.

Items: a. Designed for marine depths exceeding 1,000 m; *and*

b. A density less than 561 kg/m^3.

8C609 Materials "specially designed" for the "development" or "production" of commodities controlled by 8A609 not elsewhere specified in the USML (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, RS, AT, UN

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 1
RS applies to entire entry	RS Column 1
AT applies to entire entry	AT Column 1
UN applies to entire entry	See §746.1(b) for UN controls

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: $1500

GBS: N/A

CIV: N/A

SPECIAL CONDITIONS FOR STA

STA: Paragraph (c)(2) of License Exception STA (§740.20(c)(2) of the EAR) may not be used for any item in 8C609.

LIST OF ITEMS CONTROLLED

Related Controls: (1) See USML Categories VI and XIII(f) for controls on materials ''specially designed'' for vessels of war enumerated or otherwise described in USML Category VI. (2) See ECCN 0A919 for foreign made ''military commodities'' that incorporate more than a *de minimis* amount of U.S.-origin ''600 series'' controlled content.

Related Definitions: N/A

Items: a. Materials, not enumerated on the USML, that are ''specially designed'' for commodities enumerated in ECCN 8A609 (except for 8A609.y).

b. [Reserved]

D. ''SOFTWARE''

8D001 "Software" "specially designed" or modified for the "development," "production" or "use" of equipment or materials, controlled by 8A (except 8A992), 8B or 8C.

LICENSE REQUIREMENTS

Reason for Control: NS, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 1
AT applies to entire entry	AT Column 1

REPORTING REQUIREMENTS See §743.1 of the EAR for reporting requirements for exports under License Exceptions, and Validated End-User authorizations

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: Yes, except for exports or reexports to destinations outside of those countries listed in Country Group A:5 (See Supplement No. 1 to part 740 of the EAR) of ''software'' ''specially designed'' for the ''development'' or ''production'' of equipment controlled by 8A001.b, 8A001.d, or 8A002.o.3.b.

SPECIAL CONDITIONS FOR STA

STA: License Exception STA may not be used to ship or transmit ''software'' ''specially designed'' for the ''development'' or ''production'' of equipment in 8A001.b, 8A001.c, 8A001.d, 8A002.b, 8A002.h, 8A002.j, 8A002.o.3 or 8A002.p to any of the destinations listed in Country Group A:6 (See Supplement No. 1 to part 740 of the EAR).

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading

8D002 Specific "software" "specially designed" or modified for the "development", "production", repair, overhaul or refurbishing (re-machining) of propellers "specially designed" for underwater noise reduction.

LICENSE REQUIREMENTS

Reason for Control: NS, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 1
AT applies to entire entry	AT Column 1

REPORTING REQUIREMENTS See §743.1 of the EAR for reporting requirements for exports under License Exceptions, and Validated End-User authorizations

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: Yes

SPECIAL CONDITIONS FOR STA

STA: License Exception STA may not be used to ship or transmit any software in this entry to any of the destinations listed in Country Group A:6 (See Supplement No. 1 to part 740 of the EAR).

LIST OF ITEMS CONTROLLED

Related Controls: See also 8D992

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading

8D609 "Software" "specially designed" for the "development," "production," operation or maintenance of commodities controlled by 8A609, 8B609, or 8C609 (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, RS, AT, UN

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry, except 8D609.y.	NS Column 1
RS applies to entire entry, except 8D609.y.	RS Column 1
AT applies to entire entry	AT Column 1
UN applies to entire entry, except 8D609.y.	See §746.1(b) for UN controls

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

SPECIAL CONDITIONS FOR STA

STA: Paragraph (c)(2) of License Exception STA (§740.20(c)(2) of the EAR) may not be used for any ''software'' in 8D609.

LIST OF ITEMS CONTROLLED

Related Controls: (1) ''Software'' directly related to articles enumerated in USML Category VI is controlled under USML Category VI(g). (2) See ECCN 0A919 for foreign made ''military commodities'' that incorporate more than a *de minimis* amount of U.S.-origin ''600 series'' controlled content.

Related Definitions: N/A

Items: a. ''Software'' ''specially designed'' for the ''development,'' ''production,'' operation, or maintenance of commodities controlled by ECCN 8A609, ECCN 8B609, or ECCN 8C609 (except for commodities controlled by ECCN 8A609.y).

b. through .x [Reserved]

y. Specific ''software'' ''specially designed'' for the ''development,'' ''production,'' operation, or maintenance of commodities in ECCN 8A609.y.

8D620 "Software" "specially designed" for the "development," "production," operation, or maintenance of commodities controlled by 8A620 or 8B620 (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, RS, AT, UN

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry, except 8D620.b and .y.	NS Column 1
RS applies to entire entry, except 8D620.y.	RS Column 1
AT applies to entire entry	AT Column 1
UN applies to entire entry, except 8D620.y.	See §746.1(b) for UN controls

CIV: N/A

TSR: N/A

SPECIAL CONDITIONS FOR STA

STA: Paragraph (c)(2) of License Exception STA (§740.20(c)(2) of the EAR) may not be used for any ''software'' in 8D620.

LIST OF ITEMS CONTROLLED

Related Controls: (1) ''Software'' directly related to articles enumerated or otherwise described in USML Category XX is controlled under USML Category XX(d). (2) See ECCN 0A919 for foreign made ''military commodities'' that incorporate more than a *de minimis* amount of U.S.-origin ''600 series'' controlled content.

Related Definitions: N/A

Items: a. ''Software'' ''specially designed'' for the ''development,'' ''production,'' operation, or maintenance of commodities controlled by ECCN 8A620 or ECCN 8B620 (except for commodities controlled by ECCN 8A620.b or .y or ECCN 8B620.b).

b. ''Software'' ''specially designed'' for the ''development,'' ''production,'' operation, or maintenance of commodities controlled by ECCN 8A620.b or ECCN 8B620.b.

c. through .x [Reserved]

y. Specific ''software'' ''specially designed'' for the ''development,'' ''production,'' operation, or maintenance of commodities in ECCN 8A620.y.

8D992 "Software" "specially designed" or modified for the "development", "production" or "use" of equipment controlled by 8A992.

LICENSE REQUIREMENTS

Reason for Control: AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
CIV: N/A
TSR: N/A
LIST OF ITEMS CONTROLLED
Related Controls: N/A
Related Definitions: N/A
Items: The list of items controlled is contained in the ECCN heading

8D999 "Software" "specially designed" for the operation of unmanned submersible vehicles used in the oil and gas industry.
LICENSE REQUIREMENTS
Reason for Control: Foreign policy

Control(s)	Country chart (see Supp. No. 1 to part 738)
Russian industry sector sanctions apply to entire entry.	See §746.5 for specific license requirements and license review policy.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
CIV: N/A
TSR: N/A
LIST OF ITEMS CONTROLLED
Related Controls: N/A
Related Definitions: N/A
Items: The list of items controlled is contained in the ECCN heading.

E. ''TECHNOLOGY''

8E001 "Technology" according to the General Technology Note for the "development" or "production" of equipment or materials, controlled by 8A (except 8A992), 8B or 8C.
LICENSE REQUIREMENTS
Reason for Control: NS, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 1
AT applies to entire entry	AT Column 1

REPORTING REQUIREMENTS See §743.1 of the EAR for reporting requirements for exports under License Exceptions, and Validated End-User authorizations
LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
CIV: N/A
TSR: Yes, except for exports or reexports to destinations outside of those countries listed in Country Group A:5 (See Supplement No. 1 to part 740 of the EAR) of ''technology'' ''specially designed'' for the ''development'' or ''production'' of equipment controlled by 8A001.b, 8A001.d, or 8A002.o.3.b.
SPECIAL CONDITIONS FOR STA
STA: License Exception STA may not be used to ship or transmit ''technology'' according to the General Technology Note for the ''development'' or ''production'' of equipment specified by 8A001.b, 8A001.c, 8A001.d, 8A002.b, 8A002.h, 8A002.j, 8A002.o.3 or 8A002.p to any of the destinations listed in Country Group A:6 (See Supplement No. 1 to part 740 of the EAR).
LIST OF ITEMS CONTROLLED
Related Controls: N/A
Related Definitions: N/A
Items: The list of items controlled is contained in the ECCN heading

8E002 Other "technology" as follows (see List of Items Controlled).
LICENSE REQUIREMENTS
Reason for Control: NS, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 1
AT applies to entire entry	AT Column 1

REPORTING REQUIREMENTS See §743.1 of the EAR for reporting requirements for exports under License Exceptions, and Validated End-User authorizations
LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
CIV: N/A
TSR: N/A
License Exceptions Note: License Exception TSU is not applicable for the repair ''technology'' controlled by 8E002.a or .b, see Supplement No. 2 to this part.
SPECIAL CONDITIONS FOR STA
STA: License Exception STA may not be used to ship or transmit technology in 8E002.a to any of the destinations listed in Country Group A:6 (See Supplement No. 1 to part 740 of the EAR).
LIST OF ITEMS CONTROLLED
Related Controls: See also 8E992
Related Definitions: N/A
Items: a. ''Technology'' for the ''development'', ''production'', repair, overhaul or refurbishing (re-machining) of propellers ''specially designed'' for underwater noise reduction;

b. ''Technology'' for the overhaul or refurbishing of equipment controlled by 8A001, 8A002.b, 8A002.j, 8A002.o or 8A002.p.

c. ''Technology'' according to the General Technology Note for the ''development'' or ''production'' of any of the following:

c.1. Surface-effect vehicles (fully skirted variety) having all of the following:

c.1.a. Maximum design speed, fully loaded, exceeding 30 knots in a significant wave height of 1.25 m or more;

c.1.b. Cushion pressure exceeding 3,830 Pa; *and*

c.1.c. Light-ship-to-full-load displacement ratio of less than 0.70;

c.2. Surface-effect vehicles (rigid sidewalls) with a maximum design speed, fully loaded, exceeding 40 knots in a significant wave height of 3.25 m or more;

c.3. Hydrofoil vessels with active systems for automatically controlling foil systems, with a maximum design speed, fully loaded, of 40 knots or more in a significant wave height of 3.25 m or more; *or*

c.4. 'Small waterplane area vessels' having any of the following:

c.4.a. Full load displacement exceeding 500 tonnes with a maximum design speed, fully loaded, exceeding 35 knots in a significant wave height of 3.25 m or more; *or*

c.4.b. Full load displacement exceeding 1,500 tonnes with a maximum design speed, fully loaded, exceeding 25 knots in a significant wave height of 4 m or more.

Technical Note: A 'small waterplane area vessel' is defined by the following formula: waterplane area at an operational design draft less than 2x (displaced volume at the operational design draft) $^{2/3}$.

8E609 "Technology" "required" for the "development," "production," operation, installation, maintenance, repair, overhaul, or refurbishing of commodities controlled by 8A609, 8B609, or 8C609, or "software" controlled by 8D609 (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, RS, AT, UN

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry, except 8E609.y.	NS Column 1
RS applies to entire entry, except 8E609.y.	RS Column 1
AT applies to entire entry	AT Column 1
UN applies to entire entry, except 8E609.y.	See §746.1(b) for UN controls

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

SPECIAL CONDITIONS FOR STA

STA: Paragraph (c)(2) of License Exception STA (§740.20(c)(2) of the EAR) may not be used for any ''technology'' in 8E609.

LIST OF ITEMS CONTROLLED

Related Controls: Technical data directly related to articles enumerated or otherwise described in USML Category VI are controlled under USML Category VI(g).

Related Definitions: N/A

Items: a. ''Technology'' ''required'' for the ''development,'' ''production,'' operation, installation, maintenance, repair, overhaul, or refurbishing of commodities controlled by ECCN 8A609, 8B609, or 8C609 (except for commodities controlled by ECCN 8A609.y), or ''software'' controlled by ECCN 8D609.

b. through .x [Reserved]

y. Specific ''technology'' ''required'' for the ''development,'' ''production,'' operation, installation, maintenance, repair, overhaul, or refurbishing of commodities or software in ECCN 8A609.y or 8D609.y.

8E620 "Technology" "required" for the "development," "production," operation, installation, maintenance, repair, overhaul, or refurbishing of commodities controlled by 8A620 or 8B620, or "software" controlled by 8D620 (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, RS, AT, UN

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry, except 8E620.b and .y.	NS Column 1
RS applies to entire entry, except 8E620.y.	RS Column 1
AT applies to entire entry	AT Column 1
UN applies to entire entry, except 8E620.y.	See §746.1(b) for UN controls

CIV: N/A

TSR: N/A

SPECIAL CONDITIONS FOR STA

STA: Paragraph (c)(2) of License Exception STA (§740.20(c)(2) of the EAR) may not be used for any ''technology'' in 8E620.

LIST OF ITEMS CONTROLLED

Related Controls: Technical data directly related to articles enumerated or otherwise described in USML Category XX are controlled under USML Category XX(d).

Related Definitions: N/A

Items: a. ''Technology'' ''required'' for the ''development,'' ''production,'' operation, installation, maintenance, repair, overhaul, or refurbishing of commodities controlled by ECCN 8A620 or 8B620 or ''software'' controlled by ECCN 8D620 (except for commodities controlled by ECCN 8A620.b or .y or ECCN 8B620.b or ''software'' controlled by 8D620.b or .y).

b. ''Technology'' ''required'' for the ''development,'' ''production,'' operation, installation, maintenance, repair, overhaul, or refurbishing of commodities controlled by ECCN 8A620.b or 8B620.b or ''software'' controlled by ECCN 8D620.b.

c. through .x [Reserved]

y. Specific ''technology'' ''required'' for the ''development,'' ''production,'' operation, installation, maintenance, repair, overhaul or refurbishing of commodities or software in ECCN 8A620.y or 8D620.y.

8E992 "Technology" for the "development", "production" or "use" of equipment controlled by 8A992.

LICENSE REQUIREMENTS

Reason for Control: AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
CIV: N/A
TSR: N/A
LIST OF ITEMS CONTROLLED
Related Controls: N/A
Related Definitions: N/A
Items: The list of items controlled is contained in the ECCN heading

EAR99 Items subject to the EAR that are not elsewhere specified in this CCL Category or in any other category in the CCL are designated by the number EAR99.

CATEGORY 9—AEROSPACE AND PROPULSION

A. ''END ITEMS'', ''EQUIPMENT'', ''ACCESSORIES'', ''ATTACHMENTS'', ''PARTS'', ''COMPONENTS'' AND ''SYSTEMS''

N.B.: For propulsion systems designed or rated against neutron or transient ionizing radiation, see the U.S. Munitions List, 22 CFR part 121.

9A001 Aero gas turbine engines having any of the following (see List of Items Controlled).
LICENSE REQUIREMENTS
Reason for Control: NS, MT, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 1
MT applies to only to those engines that meet the characteristics listed in 9A101.	MT Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
LVS: N/A
GBS: N/A
CIV: N/A
LIST OF ITEMS CONTROLLED
Related Controls: See also 9A101 and 9A991
Related Definitions: N/A
Items: a. Incorporating any of the technologies controlled by 9E003.a, 9E003.h, or 9E003.i; *or*

Note 1: 9A001.a does not control aero gas turbine engines which meet all of the following:

a. Certified by civil aviation authorities of one or more Wassenaar Arrangement Participating States listed in Supplement No. 1 to Part 743; and

b. Intended to power non-military manned ''aircraft'' for which any of the following has been issued by civil aviation authorities of one or more Wassenaar Arrangement Participating States listed in Supplement No. 1 to Part 743 for the ''aircraft'' with this specific engine type:

b.1. A civil type certificate; or

b.2. An equivalent document recognized by the International Civil Aviation Organization (ICAO).

Note 2: 9A001.a does not apply to aero gas turbine engines for Auxiliary Power Units (APUs) approved by the civil aviation authority of Wassenaar Arrangement Participating States (see Supplement No. 1 to part 743 of the EAR).

b. Designed to power an ''aircraft'' designed to cruise at Mach 1 or higher, for more than 30 minutes.

9A002 'Marine gas turbine engines' with an ISO standard continuous power rating of 24,245 kW or more and a specific fuel consumption not exceeding 0.219 kg/kWh in the power range from 35 to 100%, and "specially designed" assemblies and "components" therefor.
LICENSE REQUIREMENTS
Reason for Control: NS, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 2
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
LVS: $5000
GBS: N/A
CIV: N/A
LIST OF ITEMS CONTROLLED
Related Controls: N/A
Related Definition: The term 'marine gas turbine engines' includes those industrial, or aero-derivative, gas turbine engines adapted for a ship's electric power generation or propulsion.
Items: The list of items controlled is contained in the ECCN heading.

9A003 "Specially Designed" Assemblies or "Components," Incorporating Any of the "Technologies" Controlled by 9E003.a, 9E003.h or 9E003.i, For Any of the Following Aero Gas Turbine Engines (see List of Items Controlled).
LICENSE REQUIREMENTS
Reason for Control: NS, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 2
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
LVS: $5000
GBS: N/A
CIV: N/A

LIST OF ITEMS CONTROLLED
Related Controls: N/A
Related Definition: N/A
Items: a. Controlled by 9A001; *or*

b. Whose design or production origins are either not from a Wassenaar Participating State (see Supplement No. 1 to part 743 of the EAR) or unknown to the manufacturer.

9A004 Space Launch Vehicles and "Spacecraft," "Spacecraft Buses", "Spacecraft Payloads", "Spacecraft" On-board Systems or Equipment, and Terrestrial Equipment, as Follows (see List of Items Controlled).

LICENSE REQUIREMENTS
Reason for Control: NS and AT.

Control(s)	Country chart(See Supp. No. 1 to part 738)
NS applies to 9A004.w and .x AT applies to 9A004.w, .x and .y.	NS Column 1 AT Column 1

License Requirements Note: 9A004.b through .f are controlled under ECCN 9A515.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
LVS: N/A
GBS: N/A
CIV: N/A
LIST OF ITEMS CONTROLLED
Related Controls: (1) See also 9A104, 9A515, and 9B515. (2) See ECCNs 9E001 (''development'') and 9E002 (''production'') for technology for items controlled by this entry. (3) See USML Categories IV for the space launch vehicles and XV for other spacecraft that are ''subject to the ITAR'' (see 22 CFR parts 120 through 130).
Related Definitions: N/A
Items:

a. Space launch vehicles;

b. ''Spacecraft'';

c. ''Spacecraft buses'';

d. ''Spacecraft payloads'' incorporating items specified by 3A001.b.1.a.4, 3A002.g, 5A001.a.1, 5A001.b.3, 5A002.c, 5A002.e, 6A002.a.1, 6A002.a.2, 6A002.b, 6A002.d, 6A003.b, 6A004.c, 6A004.e, 6A008.d, 6A008.e, 6A008.k, 6A008.l or 9A010.c;

e. On-board systems or equipment, specially designed for ''spacecraft'' and having any of the following functions:

e.1. 'Command and telemetry data handling';

Note: For the purpose of 9A004.e.1, 'command and telemetry data handling' includes bus data management, storage, and processing.

e.2. 'Payload data handling'; *or*

Note: For the purpose of 9A004.e.2, 'payload data handling' includes payload data management, storage, and processing.

e.3. 'Attitude and orbit control';

Note: For the purpose of 9A004.e.3, 'attitude and orbit control' includes sensing and actuation to determine and control the position and orientation of a ''spacecraft''.

N.B.: Equipment specially designed for military use is ''subject to the ITAR''. See 22 CFR parts 120 through 130.

f. Terrestrial equipment, specially designed for ''spacecraft'' as follows:

f.1. Telemetry and telecommand equipment;

f.2. Simulators.

g. through v. [Reserved]

w. The International Space Station being developed, launched, and operated under the supervision of the U.S. National Aeronautics and Space Administration.

x. ''Parts,'' ''components,'' ''accessories'' and ''attachments'' that are ''specially designed'' for the International Space Station.

y. Items that would otherwise be within the scope of ECCN 9A004.x but that have been identified in an interagency-cleared commodity classification (CCATS) pursuant to §748.3(e) as warranting control in 9A004.y.

9A005 Liquid rocket propulsion systems containing any of the systems or "components," controlled by 9A006. (These items are "subject to the ITAR." See 22 CFR parts 120 through 130.)

9A006 Systems, "components," "specially designed" for liquid rocket propulsion systems. (These items are "subject to the ITAR." See 22 CFR parts 120 through 130.)

9A007 Solid rocket propulsion systems. (These items are "subject to the ITAR." See 22 CFR parts 120 through 130.)

9A008 "Components" "specially designed" for solid rocket propulsion systems. (These items are "subject to the ITAR." See 22 CFR parts 120 through 130.)

9A009 Hybrid rocket propulsion systems. (These items are "subject to the ITAR." See 22 CFR parts 120 through 130.)

9A010 "Specially Designed" "Parts," "Components," Systems and Structures, for Launch Vehicles, Launch Vehicle Propulsion Systems or "Spacecraft". (See Related Controls paragraph.)

LIST OF ITEMS CONTROLLED
Related Controls: (1) See USML Category IV of the International Traffic in Arms Regulations (ITAR) (22 CFR parts 120 through 130) and ECCN 9A604 for paragraphs 9A010.a, .b and .d. (2) See USML Category XV of the ITAR and ECCN 9A515 for paragraph 9A010.c. (3) See Supplement No. 4 to part 774, Order of Review for guidance on the process for determining classification of items.
Items:

a. ''Parts'', ''components'' and structures, each exceeding 10 kg and ''specially designed'' for launch vehicles manufactured using any of the following:

a.1. ''Composite'' materials consisting of ''fibrous or filamentary materials'' specified by 1C010.e and resins specified by 1C008 or 1C009.b;

a.2. Metal ''matrix'' ''composites'' reinforced by any of the following:

a.2.a. Materials specified by 1C007;

a.2.b. ''Fibrous or filamentary materials'' specified by 1C010; *or*

a.2.c. Aluminides specified by 1C002.a; *or*

a.3. Ceramic ''matrix'' ''composite'' materials specified by 1C007;

Note: The weight cut-off is not relevant for nose cones.

b. ''Parts'', ''components'' and structures, ''specially designed'' for launch vehicle propulsion systems specified by 9A005 to 9A009, manufactured using any of the following:

b.1. ''Fibrous or filamentary materials'' specified by 1C010.e and resins specified by 1C008 or 1C009.b;

b.2. Metal ''Matrix ''composites'' reinforced by any of the following:

b.2.a. Materials specified by 1C007;

b.2.b. ''Fibrous or filamentary materials'' specified by 1C010; *or*

b.2.c. Aluminides specified by 1C002.a; *or*

b.3. Ceramic ''matrix'' ''composite'' materials specified by 1C007;

c. Structural components and isolation systems, specially designed to control actively the dynamic response or distortion of ''spacecraft'' structures;

d. Pulsed liquid rocket engines with thrust-to-weight ratios equal to or more than 1 kN/kg and a response time (the time required to achieve 90% of total rated thrust from start-up) of less than 30 ms.

9A011 Ramjet, scramjet or combined cycle engines, and "specially designed" "parts" and "components" therefor. (These items are "subject to the ITAR." See 22 CFR parts 120 through 130.)

9A012 Non-military "Unmanned Aerial Vehicles," ("UAVs"), Unmanned "Airships", Related Equipment and "Components", as Follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, MT, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 1
MT applies to non-military Unmanned Air Vehicle (UAVs) and Remotely Piloted Vehicles (RPVs) that are capable of a maximum range of at least 300 kilometers (km), regardless of payload, and 9A012.b.5.	MT Column 1.
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: See the U.S. Munitions List Category VIII (22 CFR part 121). Also see ECCN 9A610 and §744.3 of the EAR.

Related Definitions: N/A

Items: a. ''UAVs'' or unmanned ''airships'', designed to have controlled flight out of the direct 'natural vision' of the 'operator' and having any of the following:

a.1. Having all of the following:

a.1.a. A maximum 'endurance' greater than or equal to 30 minutes but less than 1 hour; and

a.1.b. Designed to take-off and have stable controlled flight in wind gusts equal to or exceeding 46.3 km/h (25 knots); *or*

a.2. A maximum 'endurance' of 1 hour or greater;

Technical Notes: 1. For the purposes of 9A012.a, 'operator' is a person who initiates or commands the ''UAV'' or unmanned ''airship'' flight.

2. For the purposes of 9A012.a, 'endurance' is to be calculated for ISA conditions (ISO 2533:1975) at sea level in zero wind.

3. For the purposes of 9A012.a, 'natural vision' means unaided human sight, with or without corrective lenses.

b. Related equipment and ''components'', as follows:

b.1 [Reserved]

b.2. [Reserved]

b.3. Equipment or ''components'' ''specially designed'' to convert a manned ''aircraft'' or a manned ''airship'' to a ''UAV'' or unmanned ''airship'', controlled by 9A012.a;

b.4. Air breathing reciprocating or rotary internal combustion type engines, ''specially designed'' or modified to propel ''UAVs'' or unmanned ''airships'', at altitudes above 15,240 meters (50,000 feet).

b.5. Pneumatic, hydraulic, mechanical, electro-optical, or electromechanical flight control systems (including fly-by-wire and fly-by-light systems) and attitude control equipment designed or modified for UAVs or drones controlled by ECCN 9A012., and capable of delivering at least 500 kilograms payload to a range of at least 300 km.

9A018 Equipment on the Wassenaar Arrangement Munitions List.

(a) See ECCN 9A610 for the aircraft, refuelers, ground equipment, parachutes, harnesses, and instrument flight trainers, as well as ''parts'', ''accessories,'' and ''attachments'' for the forgoing that, immediately prior to October 15, 2013, were classified under 9A018.a.1, .a.3, .c, .d, .e, or .f.

(b) See ECCN 9A619 for military trainer aircraft turbo prop engines and ''parts'' and

''components'' therefor that, immediately prior to October 15, 2013, were classified under ECCN 9A018.a.2 or .a.3.

(c) See ECCN 0A606.b for certain armored ground transport vehicles that prior to January 6, 2014 were classified under ECCN 9A018.b.

9A101 Turbojet and Turbofan Engines, Other Than Those Controlled by 9A001, as Follows (See List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: MT, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
MT applies to entire entry	MT Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: 9A101.b controls only engines for non-military unmanned air vehicles [UAVs] or remotely piloted vehicles [RPVs], and does not control other engines designed or modified for use in ''missiles,'' which are ''subject to the ITAR'' (see 22 CFR parts 120 through 130).

Related Definitions: 'Maximum thrust value' in 9A101.a.1 is the manufacturer's demonstrated maximum thrust for the engine type un-installed. The civil type certified thrust value will be equal to or less than the manufacturer's demonstrated maximum thrust for the engine type.

Items: a. Engines having both of the following characteristics:

a.1. Maximum thrust value greater than 400 N (achieved un-installed) excluding civil certified engines with a 'maximum thrust value greater' than 8,890 N (achieved un-installed), *and*

a.2. Specific fuel consumption of 0.15 kg N^{-1} h^{-1} or less (at maximum continuous power at sea level static conditions using the ICAO standard atmosphere); *or*

b. Engines designed or modified for use in ''missiles'', regardless of thrust or specific fuel consumption.

9A102 'Turboprop engine systems' "specially designed" for items controlled in 9A012 for MT reasons, and "specially designed" "parts" and "components" therefor, having a maximum power greater than 10 kW (achieved uninstalled at sea level static conditions using the ICAO standard atmosphere), excluding civil certified engines.

LICENSE REQUIREMENTS

Reason for Control: MT, AT

Control(s)	Country chart (see Supp. No. 1 to part 738).
MT applies to entire entry.	MT Column 1
AT applies to entire entry.	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: (1) See also 9A001 and 9A101.

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading.

Technical Note to 9A102: For the purposes of 9A102 a 'turboprop engine system' incorporates all of the following:

a. Turboshaft engine; and

b. Power transmission system to transfer the power to a propeller.

9A103 Liquid propellant tanks "specially designed" for the propellants controlled in ECCNs 1C011, 1C111 or other liquid propellants used in "missiles." (These items are "subject to the ITAR." See 22 CFR parts 120 through 130.)

9A104 Sounding rockets, capable of a range of at least 300 km. (These items are "subject to the ITAR." See 22 CFR parts 120 through 130.)

9A105 Liquid propellant rocket engines. (These items are "subject to the ITAR." See 22 CFR parts 120 through 130.)

9A106 Systems, "parts" or "components," other than those controlled by 9A006, usable in "missiles," and "specially designed" for liquid rocket propulsion systems, as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: MT, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
MT applies to entire entry	MT Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: Items described in 9A106.a, .b, and .c are ''subject to the ITAR'' (see 22 CFR parts 120 through 130).

Related Definitions: N/A

Items: a. Ablative liners for thrust or combustion chambers;

b. Rocket nozzles;

c. Thrust vector control sub-systems;

Technical Note: Examples of methods of achieving thrust vector control controlled by 9A106.c includes:

1. Flexible nozzle;

2. Fluid or secondary gas injection;

3. Movable engine or nozzle;

4. Deflection of exhaust gas steam (jet vanes or probes); or

5. Thrust tabs.

d. Liquid, slurry and gel propellant (including oxidizers) control systems, and ''specially designed'' ''parts'' and ''components'' therefor, designed or modified to operate in vibration environments greater than 10 g rms between 20 Hz and 2000 Hz.

Note: The only servo valves, pumps and gas turbines controlled by 9A106.d, are the following:

a. Servo valves designed for flow rates equal to or greater than 24 liters per minute, at an absolute pressure equal to or greater than 7 MPa, that have an actuator response time of less than 100 ms;

b. Pumps, for liquid propellants, with shaft speeds equal to or greater than 8,000 rpm at the maximum operating mode or with discharge pressures equal to or greater than 7 Mpa; or

c. Gas turbines, for liquid propellant turbopumps, with shaft speeds equal to or greater than 8,000 rpm at the maximum operating mode.

e. Flight control servo valves designed or modified for use in ''missiles'' and designed or modified to operate in a vibration environment greater than 10g rms over the entire range between 20Hz and 2 kHz.

9A107 Solid propellant rocket motors, usable in rockets with a range capability of 300 km or greater, other than those controlled by 9A007, having total impulse capacity equal to or greater than 8.41×10^5 Ns, but less than 1.1×10^6 Ns. (These items are "subject to the ITAR." See 22 CFR parts 120 through 130.)

9A108 Solid rocket propulsion "parts" and "components," other than those controlled by 9A008, usable in rockets with a range capability of 300 km or greater. (These items are "subject to the ITAR." See 22 CFR parts 120 through 130.)

9A109 Hybrid rocket motors, usable in rockets with a range capability of 300 km or greater, other than those controlled by 9A009, and "specially designed" "parts" and "components" therefor. (These items are "subject to the ITAR." See 22 CFR parts 120 through 130.)

9A110 Composite structures, laminates and manufactures thereof "specially designed" for 9A012 items that are controlled for MT reasons.

LICENSE REQUIREMENTS

Reason for Control: MT, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
MT applies to entire entry	MT Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: See also 1A002.

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading

9A111 Pulse jet engines, usable in rockets, missiles, or unmanned aerial vehicles capable of achieving a "range" equal to or greater than 300 km, and "specially designed" "parts" and "components" therefor. (These items are "subject to the ITAR." See 22 CFR parts 120 through 130.)

9A115 Apparatus, devices and vehicles, designed or modified for the transport, handling, control, activation and launching of rockets, missiles, and unmanned aerial vehicles capable of achieving a "range" equal to or greater than 300 km. (Some of these items are controlled in ECCN 9A610; others are "subject to the ITAR." See 22 CFR parts 120 through 130.)

9A116 Reentry vehicles, usable in "missiles," and equipment designed or modified therefor. (These items are "subject to the ITAR." See 22 CFR parts 120 through 130.)

9A117 Staging mechanisms, separation mechanisms, and interstages therefor, usable in "missiles". (These items are "subject to the ITAR." See 22 CFR parts 120 through 130.)

9A118 Devices to regulate combustion usable in engines which are usable in rockets, missiles, and unmanned aerial vehicles capable of achieving a "range" equal to or greater than 300 km, controlled by 9A011 or 9A111. (These items are "subject to the ITAR." See 22 CFR parts 120 through 130.)

9A119 Individual rocket stages, usable in rockets with a range capability greater than 300 km or greater, other than those controlled by 9A005, 9A007, 9A009, 9A105, 9A107 and 9A109. (These items are "subject to the ITAR." See 22 CFR parts 120 through 130.)

9A120 Complete unmanned aerial vehicles, not specified in 9A012, having all of the following characteristics (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: MT, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
MT applies to entire entry	MT Column 1.
AT applies to entire entry	AT Column 1.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: See ECCN 9A012 or the U.S. Munitions List Category VIII (22 CFR part 121). Also see ECCN 2B352.i for controls on certain spraying or fogging systems, and ''parts'' and ''components'' therefor, ''specially designed'' or modified for fitting to aircraft, ''lighter than air vehicles,'' or ''UAVs.''

Related Definitions: N/A

Items: a. Having any of the following:

a.1. An autonomous flight control and navigation capability; *or*

a.2. Capability of controlled-flight out of the direct vision range involving a human operator; *and*

b. Having any of the following:

b.1. Incorporating an aerosol dispensing system/mechanism with a capacity greater than 20 liters; *or*

b.2. Designed or modified to incorporate an aerosol dispensing system/mechanism with a capacity of greater than 20 liters.

Note: 9A120 does not control model aircraft, ''specially designed'' for recreational or competition purposes.

Technical Notes: 1. An aerosol consists of particulate or liquids other than fuel components, by—products or additives, as part of the ''payload'' to be dispersed in the atmosphere. Examples of aerosols include pesticides for crop dusting and dry chemicals for cloud seeding.

2. An aerosol dispensing system/mechanism contains all above devices (mechanical, electrical, hydraulic, etc.), which are necessary for storage and dispersion of an aerosol into the atmosphere. This includes the possibility of aerosol injection into the combustion exhaust vapor and into the propeller slip stream.

9A515 "Spacecraft" and related commodities, as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, RS, MT, AT

Control(s)	Country chart
NS applies to entire entry, except .e and .y.	NS Column 1
RS applies to entire entry, except .e and .y.	RS Column 1
RS applies to 9A515.e	RS Column 2
MT applies to microcircuits in 9A515.d and 9A515.e.2 when "usable in" "missiles" for protecting "missiles" against nuclear effects (e.g. Electromagnetic Pulse (EMP), X-rays, combined blast and thermal effects).	MT Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: $1500

GBS: N/A

CIV: N/A

SPECIAL CONDITIONS FOR STA

STA: (1) Paragraph (c)(1) of License Exception STA (§740.20(c)(1) of the EAR) may not be used for ''spacecraft'' in 9A515.a that provide space-based logistics, assembly or servicing of any spacecraft (*e.g.*, refueling), unless determined by BIS to be eligible for License Exception STA in accordance with §740.20(g) (License Exception STA eligibility requests for certain ''500 series'' and ''600 series'' end items). (2) Paragraph (c)(2) of License Exception STA (§740.20(c)(2) of the EAR) may not be used for any item in 9A515.

LIST OF ITEMS CONTROLLED

Related Controls: Spacecraft, launch vehicles and related articles that are enumerated in the USML, and technical data (including ''software'') directly related thereto, and all services (including training) directly related to the integration of any satellite or spacecraft to a launch vehicle, including both planning and onsite support, or furnishing any assistance (including training) in the launch failure analysis or investigation for items in 9A515.a, are ''subject to the ITAR.'' All other ''spacecraft,'' as enumerated below and defined in section 772.1, are subject to the controls of this ECCN. See also ECCNs 3A001, 3A002, 3A991, 3A992, 6A002, 6A004, 6A008, and 6A998 for specific ''space-qualified'' items, 7A004 and 7A104 for star trackers, and 9A004 for the International Space Station and specially designed part and components therefor. See USML Category XI(c) for controls on microwave monolithic integrated circuits (MMICs) that are ''specially designed'' for defense articles. See ECCN 9A610.g for pressure suits used for high altitude aircraft.

Related Definitions: 'Microcircuit' means a device in which a number of passive or active elements are considered as indivisibly associated on or within a continuous structure to perform the function of a circuit.

Items:

''Spacecraft'' and other items described in ECCN 9A515 remain subject to the EAR even if exported, reexported, or transferred (in-country) with defense articles ''subject to the ITAR'' integrated into and included therein as integral parts of the item. In all other cases, such defense articles are subject to the ITAR. For example, a 9A515.a ''spacecraft'' remains ''subject to the EAR'' even when it is exported, reexported, or transferred (in-country) with a ''hosted payload'' described in USML Category XV(e)(17) incorporated therein. In all other cases, a ''hosted payload'' performing a function described in USML Category XV(a) always remains a USML item.

a. ''Spacecraft,'' including satellites, and space vehicles, whether designated developmental, experimental, research or scientific, not enumerated in USML Category XV or described in 9A004.

NOTE: *ECCN 9A515.a includes commercial communications satellites, remote sensing satellites, planetary rovers, planetary and interplanetary probes, and in-space habitats, not identified in USML Category XV(a).*

b. Ground control systems and training simulators ''specially designed'' for telemetry, tracking, and control of the ''spacecraft'' controlled in paragraph 9A515.a.

c. [Reserved]

d. Microelectronic circuits (*e.g.*, integrated circuits, microcircuits, MOSFETs) and discrete electronic components rated, certified, or otherwise specified or described as meeting or exceeding all the following characteristics and that are ''specially designed'' for defense articles, ''600 series'' items, or items controlled by 9A515:

d.1. A total dose of 5×10^5 Rads (Si) (5×10^3 Gy (Si));

d.2. A dose rate upset threshold of 5×10^8 Rads (Si)/sec (5×10^6 Gy (Si)/sec);

d.3. A neutron dose of 1×10^{14} n/cm^2 (1 MeV equivalent);

d.4. An uncorrected single event upset sensitivity of 1×10^{-10} errors/bit/day or less, for the CREME–MC geosynchronous orbit, Solar Minimum Environment for heavy ion flux; and

d.5. An uncorrected single event upset sensitivity of 1×10^{-3} errors/part or less for a fluence of 1×10^7 protons/cm^2 for proton energy greater than 50 MeV.

e. Microelectronic circuits (*e.g.*, integrated circuits, microcircuits, MOSFETs) and discrete electronic components that are rated, certified, or otherwise specified or described as meeting or exceeding the characteristics in either paragraph e.1 or e.2, AND ''specially designed'' for defense articles controlled by USML Category XV or items controlled by 9A515:

e.1. A total dose $\geq 1 \times 10^5$ Rads (Si) (1×10^3 Gy(Si)) and $< 5 \times 10^5$ Rads (Si) (5×10^3 Gy(Si)); and a single event effect (SEE) (*i.e.*, single event latchup (SEL), single event burnout (SEB), or single event gate rupture (SEGR)) immunity to a linear energy transfer (LET) ≥80 MeV-cm2/mg; or

e.2. A total dose $\geq 5 \times 10^5$ Rads (Si) (5×10^3 Gy (Si)) and not described in 9A515.d.

Note 1 to 9A515.d and .e: Application specific integrated circuits (ASICs), integrated circuits developed and produced for a specific application or function, specifically designed or modified for defense articles and not in normal commercial use are controlled by Category XI(c) of the USML regardless of characteristics.

Note 2 to 9A515.d and .e: See 3A001.a for controls on radiation-hardened microelectronic circuits ''subject to the EAR'' that are not controlled by 9A515.d or 9A515.e.

f. Pressure suits (i.e., space suits) capable of operating at altitudes 55,000 feet above sea level.

g. through w. [Reserved]

x. ''Parts,'' ''components,'' ''accessories'' and ''attachments'' that are ''specially designed'' for defense articles controlled by USML Category XV or items controlled by 9A515, and that are NOT:

1. Enumerated or controlled in the USML or elsewhere within ECCNs 9A515 or 9A004;

2. Microelectronic circuits and discrete electronic components;

3. Described in ECCNs 7A004 or 7A104;

4. Described in an ECCN containing ''space-qualified'' as a control criterion (*i.e.*, 3A001.b.1, 3A001.e.4, 3A002.g.1, 3A991.o, 3A992.b.3, 6A002.a.1, 6A002.b.2, 6A002.d.1, 6A004.c and .d, 6A008.j.1, 6A998.b, or 7A003.d.2);

5. Microwave solid state amplifiers and microwave assemblies (refer to ECCN 3A001.b.4 for controls on these items);

6. Travelling wave tube amplifiers (refer to ECCN 3A001.b.8 for controls on these items); or

7. Elsewhere specified in ECCN 9A515.y.

Note to 9A515.x: ''Parts,'' ''components,'' ''accessories,'' and ''attachments'' specified in USML subcategory XV(e) or enumerated in other USML categories are subject to the controls of that paragraph or category.

y. Items that would otherwise be within the scope of ECCN 9A515.x but that have been identified in an interagency-cleared commodity classification (CCATS) pursuant to §748.3(e) as warranting control in 9A515.y.

y.1. Discrete electronic components not specified in 9A515.e; and

y.2. [Reserved]

9A604 Commodities related to launch vehicles, missiles, and rockets (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, RS, MT, AT, UN

Control(s)	Country chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 1

Control(s)	Country chart (See Supp. No. 1 to part 738)
RS applies to entire entry	RS Column 1
MT applies to 9A604.a, .c, .d, and .f.	MT Column 1
AT applies to entire entry	AT Column 1
UN applies to entire entry	See §746.1(b) for UN controls

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

SPECIAL CONDITIONS FOR STA

STA: Paragraph (c)(2) of License Exception STA (§740.20(c)(2) of the EAR) may not be used for any item in this ECCN 9A604.

LIST OF ITEMS CONTROLLED

Related Controls: (1) Launch vehicles, missiles, and rockets are subject to the ITAR (see 22 CFR §121.1, USML Category IV). (2) See ECCN 0A919 for foreign-made ''military commodities'' that incorporate more than a *de minimis* amount of U.S.-origin ''600 series'' controlled content.

Related Definitions: N/A

Items: a. Thermal batteries ''specially designed'' for systems controlled under USML Category IV capable of a range equal to or greater than 300 km.

b. Thermal batteries, except for thermal batteries controlled by 9A604.a, that are ''specially designed'' for systems controlled under USML Category IV.

c. ''Components'' ''specially designed'' for ramjet, scramjet, pulse jet, or combined cycle engines controlled under USML Category IV, including devices to regulate combustion in such commodities.

d. ''Components'' ''specially designed'' for hybrid rocket motors controlled under USML Category IV usable in rockets, missiles, or unmanned aerial vehicles capable of a range equal to or greater than 300 km.

e. ''Components'' ''specially designed'' for pressure gain combustion-based propulsion systems controlled under USML Category IV.

f. Composite structures, laminates and manufactures thereof ''specially designed'' for the following items controlled under USML Category IV:

f.1. Systems capable of a range equal to or greater than 300 km;

f.2. Individual rocket stages usable in 9A604.f.1. systems;

f.3. Solid propellant rocket motors or hybrid rocket motors having a total impulse capacity equal to or greater than 8.41×10^5 Ns; or

f.4. Liquid propellant rocket engines integrated, or designed or modified to be integrated, into a liquid propellant propulsion system which has a total impulse capacity equal to or greater than 8.41×10^5 Ns.

f.5. Thrust vector control systems usable in rockets, space launch vehicles (SLVs), and missiles capable of delivering at least a 500 kg payload to a range of at least 300 km.

f.6. Re-entry vehicles or warhead heat shields usable in rockets, SLVs, and missiles capable of delivering at least a 500 kg payload to a range of at least 300 km.

f.7. Safing, arming, fuzing, and firing components usable in rockets, SLVs, and missiles capable of delivering at least a 500 kg payload to a range of at least 300 km.

g. through w. [Reserved]

x. ''Parts,'' ''components,'' ''accessories,'' and ''attachments'' that are ''specially designed'' for a commodity subject to control in paragraphs .a through .d of this ECCN, or a defense article controlled under USML Category IV, and not specified elsewhere on the USML.

Note to 9A604.x: ''Parts,'' ''components,'' ''accessories,'' and ''attachments'' specified in USML Category IV(h) are subject to the controls of that paragraph.

9A610 Military aircraft and related commodities, other than those enumerated in 9A991.a (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, RS, MT, AT, UN

Control(s)	Country Chart (See supp. no. 1 to part 738)
NS applies to entire entry except: 9A610.b; parts and components controlled in 9A610.x if being exported or reexported for use in an aircraft controlled in 9A610.b; and 9A610.y.	NS Column 1.
RS applies to entire entry except: 9A610.b; parts and components controlled in 9A610.x if being exported or reexported for use in an aircraft controlled in 9A610.b; and 9A610.y.	RS Column 1.
MT applies to 9A610.t, .u, .v, and .w.	MT Column 1.
AT applies to entire entry	AT Column 1.
UN applies to entire entry except 9A610.y.	See §746.1(b) for UN controls.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: $1500

GBS: N/A

CIV: N/A

SPECIAL CONDITIONS FOR STA

STA: (1) Paragraph (c)(1) of License Exception STA (§740.20(c)(1) of the EAR) may not be used for any item in 9A610.a (*i.e.*, ''end item'' military aircraft), unless determined by BIS to be eligible for License Exception STA in accordance with §740.20(g)

(License Exception STA eligibility requests for ''600 series'' end items). (2) Paragraph (c)(2) of License Exception STA (§740.20(c)(2) of the EAR) may not be used for any item in 9A610.

LIST OF ITEMS CONTROLLED

Related Controls: (1) Military aircraft and related articles that are enumerated in USML Category VIII, and technical data (including software) directly related thereto, are subject to the ITAR. (2) See ECCN 0A919 for controls on foreign-made ''military commodities'' that incorporate more than a *de minimis* amount of U.S.-origin ''600 series'' controlled content. (3) See USML Category XIX and ECCN 9A619 for controls on military aircraft gas turbine engines and related items.

Related Definitions: In paragraph .y of this entry, the term 'fluid' includes liquids and gases.

Items: a. 'Military Aircraft' ''specially designed'' for a military use that are not enumerated in USML paragraph VIII(a).

Note 1: For purposes of paragraph .a the term 'military aircraft' means the LM–100J aircraft and any aircraft ''specially designed'' for a military use that are not enumerated in USML paragraph VIII(a). The term includes: Trainer aircraft; cargo aircraft; utility fixed wing aircraft; military helicopters; observation aircraft; military non-expansive balloons and other lighter than air aircraft; and unarmed military aircraft, regardless of origin or designation. Aircraft with modifications made to incorporate safety of flight features or other FAA or NTSB modifications such as transponders and air data recorders are ''unmodified'' for the purposes of this paragraph .a.

Note 2: 9A610.a does not control 'military aircraft' that:

a. Were first manufactured before 1946;

b. Do not incorporate defense articles enumerated or otherwise described on the U.S. Munitions List, unless the items are required to meet safety or airworthiness standards of a Wassenaar Arrangement Participating State; and

c. Do not incorporate weapons enumerated or otherwise described on the U.S. Munitions List, unless inoperable and incapable of being returned to operation.

b. L–100 aircraft manufactured prior to 2013.

c.–d. [Reserved]

e. Mobile aircraft arresting and engagement runway systems for aircraft controlled by either USML Category VIII(a) or ECCN 9A610.a

f. Pressure refueling equipment and equipment that facilitates operations in confined areas, ''specially designed'' for aircraft controlled by either USML paragraph VIII(a) or ECCN 9A610.a.

g. Aircrew life support equipment, aircrew safety equipment and other devices for emergency escape from aircraft controlled by either USML paragraph VIII(a) or ECCN 9A610.a.

h. Parachutes, paragliders, complete parachute canopies, harnesses, platforms, electronic release mechanisms, ''specially designed'' for use with aircraft controlled by either USML paragraph VIII(a) or ECCN 9A610.a, and ''equipment'' ''specially designed'' for military high altitude parachutists, such as suits, special helmets, breathing systems, and navigation equipment.

i. Controlled opening equipment or automatic piloting systems, designed for parachuted loads.

j. Ground effect machines (GEMS), including surface effect machines and air cushion vehicles, ''specially designed'' for use by a military.

k. through s. [Reserved]

t. Composite structures, laminates, and manufactures thereof ''specially designed'' for unmanned aerial vehicles controlled under USML Category VIII(a) with a range equal to or greater than 300 km.

Note to paragraph .t: Composite structures, laminates, and manufactures thereof ''specially designed'' for unmanned aerial vehicles controlled under USML Category VIII(a) with a maximum range less than 300 km are controlled in paragraph .x of this entry.

u. Apparatus and devices ''specially designed'' for the handling, control, activation and non-ship-based launching of UAVs or drones controlled by either USML paragraph VIII(a) or ECCN 9A610.a, and capable of a range equal to or greater than 300 km.

Note to paragraph .u: Apparatus and devices ''specially designed'' for the handling, control, activation and non-ship-based launching of UAVs or drones controlled by either USML paragraph VIII(a) or ECCN 9A610.a with a maximum range less than 300 km are controlled in paragraph .x of this entry.

v. Radar altimeters designed or modified for use in UAVs or drones controlled by either USML paragraph VIII(a) or ECCN 9A610.a., and capable of delivering at least 500 kilograms payload to a range of at least 300 km.

Note to paragraph .v: Radar altimeters designed or modified for use in UAVs or drones controlled by either USML paragraph VIII(a) or ECCN 9A610.a. that are not capable of delivering at least 500 kilograms payload to a range of at least 300 km are controlled in paragraph .x of this entry.

w. Pneumatic hydraulic, mechanical, electro-optical, or electromechanical flight control systems (including fly-by-wire and fly-by-light systems) and attitude control equipment designed or modified for UAVs or drones controlled by either USML paragraph VIII(a) or ECCN 9A610.a., and capable of delivering at least 500 kilograms payload to a range of at least 300 km.

Note to paragraph .w. Pneumatic, hydraulic, mechanical, electro-optical, or

electromechanical flight control systems (including fly-by-wire and fly-by-light systems) and attitude control equipment designed or modified for UAVs or drones controlled by either USML paragraph VIII(a) or ECCN 9A610.a., not capable of delivering at least 500 kilograms payload to a range of at least 300 km are controlled in paragraph .x of this entry.

x. ''Parts,'' ''components,'' ''accessories,'' and ''attachments'' that are ''specially designed'' for a commodity enumerated or otherwise described in ECCN 9A610 (except for 9A610.y) or a defense article enumerated or otherwise described in USML Category VIII and not elsewhere specified on the USML or in 9A610.y, 9A619.y, or 3A611.y.

y. Specific ''parts,'' ''components,'' ''accessories,'' and ''attachments'' ''specially designed'' for a commodity subject to control in this entry, ECCN 9A619, or for a defense article in USML Categories VIII or XIX and not elsewhere specified in the USML or the CCL, and other aircraft commodities ''specially designed'' for a military use, as follows, and ''parts,'' ''components,'' ''accessories,'' and ''attachments'' ''specially designed'' therefor:

y.1. Aircraft tires;

y.2. Analog gauges and indicators;

y.3. Audio selector panels;

y.4. Check valves for hydraulic and pneumatic systems;

y.5. Crew rest equipment;

y.6. Ejection seat mounted survival aids;

y.7. Energy dissipating pads for cargo (for pads made from paper or cardboard);

y.8. Fluid filters and filter assemblies;

y.9. Galleys;

y.10. Fluid hoses, straight and unbent lines (for a commodity subject to control in this entry or defense article in USML Category VIII), and fittings, couplings, clamps (for a commodity subject to control in this entry or defense article in USML Category VIII) and brackets therefor;

y.11. Lavatories;

y.12. Life rafts;

y.13. Magnetic compass, magnetic azimuth detector;

y.14. Medical litter provisions;

y.15. Cockpit or cabin mirrors;

y.16. Passenger seats including palletized seats;

y.17. Potable water storage systems;

y.18. Public address (PA) systems;

y.19. Steel brake wear pads (does not include sintered mix or carbon/carbon materials);

y.20. Underwater locator beacons;

y.21. Urine collection bags/pads/cups/pumps;

y.22. Windshield washer and wiper systems;

y.23. Filtered and unfiltered panel knobs, indicators, switches, buttons, and dials;

y.24. Lead-acid and Nickel-Cadmium batteries;

y.25. Propellers, propeller systems, and propeller blades used with reciprocating engines;

y.26. Fire extinguishers;

y.27. Flame and smoke/CO_2 detectors;

y.28. Map cases;

y.29. 'Military Aircraft' that were first manufactured from 1946 to 1955 that do not incorporate defense articles enumerated or otherwise described on the U.S. Munitions List, unless the items are required to meet safety or airworthiness standards of a Wassenaar Arrangement Participating State; *and* do not incorporate weapons enumerated or otherwise described on the U.S. Munitions List, unless inoperable and incapable of being returned to operation;

y.30. ''Parts,'' ''components,'' ''accessories,'' and ''attachments,'' other than electronic items or navigation equipment, for use in or with a commodity controlled by ECCN 9A610.h;

y.31. Identification plates and nameplates; and

y.32. Fluid manifolds.

9A619 Military gas turbine engines and related commodities (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, RS, AT, UN

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry except 9A619.y.	NS Column 1
RS applies to entire entry except 9A619.y.	RS Column 1
AT applies to entire entry	AT Column 1
UN applies to entire entry except 9A619.y.	See §746.1(b) for UN controls

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: $1,500

GBS: N/A

CIV: N/A

SPECIAL CONDITIONS FOR STA

STA: Paragraph (c)(2) of License Exception STA (§740.20(c)(2) of the EAR) may not be used for any item in ECCN 9A619.

LIST OF ITEMS CONTROLLED

Related Controls: (1) Military gas turbine engines and related articles that are enumerated or otherwise described in USML Category XIX, and technical data (including software) directly related thereto, are subject to the jurisdiction of the International Traffic in Arms Regulations (ITAR). (2) Gas turbine engines designated 501–D22 are controlled in ECCN 9A991.d regardless of the aircraft type into which they will be installed. (3) See ECCN 0A919 for foreign-made ''military commodities'' that incorporate more than a *de minimis* amount of U.S.-origin ''600 series'' controlled content. (4) ''Parts,'' ''components,'' ''accessories,''

and ''attachments'' specified in USML Category XIX(f) are subject to the controls of that paragraph. (5) ''Parts,'' ''components,'' ''accessories,'' and ''attachments'' specified in ECCN 9A619.y are subject to the controls of that paragraph.

Related Definitions: In paragraph .y of this entry, the term 'fluid' includes liquids and gases.

Items: a. ''Military Gas Turbine Engines'' ''specially designed'' for a military use that are not controlled in USML Category XIX(a), (b), (c), or (d).

NOTE: *For purposes of ECCN 9A619.a, the term ''military gas turbine engines'' means gas turbine engines ''specially designed'' for ''end items'' enumerated in USML Categories VI, VII or VIII or on the CCL under ECCNs 0A606, 8A609 or 9A610.*

b. Digital engine controls (e.g., Full Authority Digital Engine Controls (FADEC) and Digital Electronic Engine Controls (DEEC)) ''specially designed'' for gas turbine engines controlled in this ECCN 9A619.

c. If ''specially designed'' for gas turbine engines controlled in 9A619.a, hot section components (*i.e.*, combustion chambers and liners; high pressure turbine blades, vanes, disks and related cooled structure; cooled low pressure turbine blades, vanes, disks and related cooled structure; cooled augmenters; and cooled nozzles);

d. If ''specially designed'' for gas turbine engines controlled in 9A619.a, uncooled turbine blades, vanes, disks, and tip shrouds;

e. If ''specially designed'' for gas turbine engines controlled in 9A619.a, combustor cowls, diffusers, domes, and shells;

f. Engine monitoring systems (*i.e.*, those that conduct prognostics, diagnostics, and monitor health) ''specially designed'' for gas turbine engines and components controlled in this ECCN 9A619.

g. through w. [Reserved]

x. Parts,'' ''components,'' ''accessories,'' and ''attachments'' that are ''specially designed'' for a commodity controlled by this ECCN 9A619 (other than ECCN 9A619.c) or for a defense article enumerated in USML Category XIX and not specified elsewhere on the USML or in ECCN 3A611.y, 9A610.y or 9A619.y.

Note to paragraph .x: ''Parts,'' ''components,'' ''accessories,'' and ''attachments'' specified in USML subcategory XIX(f) are subject to the controls of that paragraph. ''Parts,'' ''components,'' ''accessories,'' and ''attachments'' specified in ECCN 3A611.y, 9A610.y or 9A619.y are subject to the controls of that paragraph.

y. Specific ''parts,'' ''components,'' ''accessories,'' and ''attachments'' ''specially designed'' for a commodity subject to control in this entry, ECCN 9A610, or for a defense article in USML Category VIII or Category XIX and not elsewhere specified on the USML or in the CCL, and other commodities, as follows, and ''parts,'' ''components,'' ''accessories,'' and ''attachments'' ''specially designed'' therefor:

y.1. Oil tank and reservoirs;

y.2. Oil lines and tubes;

y.3. Fluid hoses, and lines (for a commodity subject to control in this entry or a defense article in USML Category XIX), fittings, couplings, and brackets therefor;

y.4. Fluid filters and filter assemblies;

y.5. Clamps (for a commodity subject to control in this entry or a defense article in USML Category XIX);

y.6. Shims;

y.7. Identification plates and nameplates;

y.8. Fluid manifolds; and

y.9. Check valves for fluid systems.

9A620 Cryogenic and "superconductive" equipment, as follows (see list of items controlled).

Reason for Control: NS, RS, AT, UN

Control(s)	Country chart (see Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 1
RS applies to entire entry	RS Column 1
AT applies to entire entry	AT Column 1
UN applies to entire entry	See §746.1(b) for UN controls

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: $1500.

GBS: N/A

CIV: N/A

SPECIAL CONDITIONS FOR STA

STA: Paragraph (c)(2) of License Exception STA (§740.20(c)(2) of the EAR) may not be used for any item in 9A620.

LIST OF ITEMS CONTROLLED

Related Controls: Electronic items that are enumerated in USML Category XI or other USML categories, and technical data (including software) directly related thereto, are subject to the ITAR.

Related Definitions: N/A

Items: a. Equipment ''specially designed'' to be installed in a vehicle for military ground, marine, airborne, or space applications, and capable of operating while in motion and of producing or maintaining temperatures below 103 K (−170 °C).

Note to 9A620.a: ECCN 9A620.a includes mobile systems incorporating or employing ''accessories'' or ''components'' manufactured from non-metallic or non-electrical conductive materials such as plastics or epoxy-impregnated materials.

b. ''Superconductive'' electrical equipment (rotating machinery and transformers) ''specially designed'' to be installed in a vehicle for military ground, marine, airborne, or space applications, and capable of operating while in motion.

Note to 9A620.b: ECCN 9A620.b. does not control direct-current hybrid homopolar generators

that have single-pole normal metal armatures which rotate in a magnetic field produced by superconducting windings, provided those windings are the only superconducting components in the generator.

c. through w. [Reserved].

x. ''Parts,'' ''components,'' ''accessories'' and ''attachments'' that are ''specially designed'' for a commodity controlled by ECCN 9A620.

9A980 Nonmilitary mobile crime science laboratories; and accessories, n.e.s.

Heading Note: In order for a vehicle to be classified as a nonmilitary mobile crime scene laboratory under ECCN 9A980, the vehicle must contain one or more analytical or laboratory items controlled for Crime Control (CC) reasons on the CCL, such as ECCNs 3A980 and 3A981.

LICENSE REQUIREMENTS

Reason for Control: CC

Control(s)	Country Chart (See Supp. No. 1 to part 738)
CC applies to entire entry	CC Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading

9A990 Diesel engines, n.e.s., and tractors and "specially designed" "parts" and "components" therefor, n.e.s. (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
AT applies to entire entry except 9A990.a.	AT Column 1.
AT applies to 9A990.a only ...	AT Column 2.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: a. Diesel engines, n.e.s., for trucks, tractors, and automotive applications of continuous brake horsepower of 400 BHP (298 kW) or greater (performance based on SAE J1349 standard conditions of 100 Kpa and 25°)

b. Off highway wheel tractors of carriage capacity 9 mt (20,000 lbs) or more; and major ''components'' and accessories, n.e.s.

c. On-Highway tractors, with single or tandem rear axles rated for 9 mt per axel (20,000 lbs.) or greater and ''specially designed'' major ''components''.

9A991 "Aircraft," n.e.s., and gas turbine engines not controlled by 9A001 or 9A101 and "parts" and "components," n.e.s. (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: AT, UN

Control(s)	Country Chart (See Supp. No. 1 to part 738)
AT applies to entire entry	AT Column 1.
UN applies to 9A991.a	See §746.1(b) for UN controls.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: a. Military aircraft, demilitarized (not specifically equipped or modified for military operation), as follows:

a.1 Cargo aircraft bearing ''C'' designations and numbered C–45 through C–118 inclusive, C–121 through C–125 inclusive, and C–131, using reciprocating engines only.

a.2 Trainer aircraft bearing ''T'' designations and using reciprocating engines or turboprop engines with less than 600 horsepower (s.h.p.).

a.3 Utility aircraft bearing ''U'' designations and using reciprocating engines only.

a.4 All liaison aircraft bearing an ''L'' designation.

a.5 All observation aircraft bearing ''O'' designations and using reciprocating engines.

b. Aircraft n.e.s.;

c. Aero gas turbine engines, and ''parts'' and ''components'' ''specially designed'' therefor.

Note: 9A991.c does not control aero gas turbine engines that are destined for use in civil ''aircraft'' and that have been in use in bona fide civil ''aircraft'' for more than eight years. If they have been in use in bona fide civil ''aircraft'' for more than eight years, such engines are controlled under 9A991.d.

d. ''Parts'' and ''components,'' ''specially designed'' for ''aircraft,'' n.e.s.

e. Pressurized aircraft breathing equipment, n.e.s.; *and* ''parts'' and ''components'' ''specially designed'' therefor, n.e.s.

9A992 Complete canopies, harnesses, and platforms and electronic release mechanisms therefor, except such types as are in normal sporting use.

LICENSE REQUIREMENTS

Reason for Control: AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading

B. ''TEST'', ''INSPECTION'' AND ''PRODUCTION EQUIPMENT''

9B001 Equipment, Tooling or Fixtures, "Specially Designed" for Manufacturing Gas Turbine Engine Blades, Vanes or "Tip Shrouds", as Follows (See List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, MT, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 1
MT applies to equipment for engines controlled under 9A001 for MT reasons and for engines controlled under 9A101.	MT Column 1
AT applies to entire entry	AT Column 1

REPORTING REQUIREMENTS See §743.1 of the EAR for reporting requirements for exports under License Exceptions, and Validated End-User authorizations

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: $5000, except N/A for MT

GBS: Yes, except N/A for MT

CIV: Yes, except N/A for MT

SPECIAL CONDITIONS FOR STA

STA: License Exception STA may not be used to ship commodities in 9B001 to any of the destinations listed in Country Group A:6 (See Supplement No. 1 to part 740 of the EAR).

LIST OF ITEMS CONTROLLED

Related Controls: For ''specially designed'' production equipment of systems, sub-systems, ''parts'' and ''components'' controlled by 9A005 to 9A009, 9A011, 9A101, 9A105 to 9A109, 9A111, and 9A116 to 9A119 usable in ''missiles'' see 9B115. See also 9B991.

Related Definitions: N/A

Items: a. Directional solidification or single crystal casting equipment;

b. Casting tooling, manufactured from refractory metals or ceramics, as follows:

b.1. Cores;

b.2. Shells (moulds);

b.3. Combined core and shell (mould) units.

c. Directional-solidification or single-crystal additive-manufacturing equipment.

9B002 On-line (real time) control systems, instrumentation (including sensors) or automated data acquisition and processing equipment, having all of the following (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, MT, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 1
MT applies to equipment for engines controlled under 9A001 for MT reasons and for engines controlled under 9A101.	MT Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: $3000, except N/A for MT

GBS: Yes, except N/A for MT

CIV: Yes, except N/A for MT

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: a. ''Specially designed'' for the ''development'' of gas turbine engines, assemblies, ''parts'' or ''components''; and

b. Incorporating ''technologies'' controlled by 9E003.h or 9E003.i.

9B003 Equipment "specially designed" for the "production" or test of gas turbine brush seals designed to operate at tip speeds exceeding 335 m/s, and temperatures in excess of 773 K (500 °C), and "specially designed" "components" or "accessories" therefor.

LICENSE REQUIREMENTS

Reason for Control: NS, MT, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 1
MT applies to equipment for engines controlled under 9A001 for MT reasons and for engines controlled under 9A101.	MT Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: $5000, except N/A for MT

GBS: Yes, except N/A for MT
CIV: Yes, except N/A for MT
LIST OF ITEMS CONTROLLED
Related Controls: See also 9B115
Related Definitions: N/A
Items: The list of items controlled is contained in the ECCN heading

9B004 Tools, dies or fixtures, for the solid state joining of "superalloy", titanium or intermetallic airfoil-to-disk combinations described in 9E003.a.3 or 9E003.a.6 for gas turbines.
Reason for Control: NS, MT, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 1
MT applies to equipment for engines controlled under 9A001 for MT reasons and for engines controlled under 9A101.	MT Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
LVS: $3000, except N/A for MT
GBS: Yes, except N/A for MT
CIV: Yes, except N/A for MT
LIST OF ITEMS CONTROLLED
Related Controls: N/A
Related Definitions: N/A
Items: The list of items controlled is contained in the ECCN heading

9B005 On-line (real time) control systems, instrumentation (including sensors) or automated data acquisition and processing equipment, "specially designed" for use with any of the following (see List of Items Controlled).
LICENSE REQUIREMENTS
Reason for Control: NS, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
LVS: N/A
GBS: N/A
CIV: N/A
LIST OF ITEMS CONTROLLED
Related Controls: See also 9B105
Related Definitions: N/A
Items: a. Wind tunnels designed for speeds of Mach 1.2 or more;

Note: 9B005.a does not control wind tunnels ''specially designed'' for educational purposes and having a 'test section size' (measured laterally) of less than 250 mm.

Technical Note: 'Test section size' in 9B005.a means the diameter of the circle, or the side of the square, or the longest side of the rectangle, at the largest test section location.

b. Devices for simulating flow-environments at speeds exceeding Mach 5, including hot-shot tunnels, plasma arc tunnels, shock tubes, shock tunnels, gas tunnels and light gas guns; or

c. Wind tunnels or devices, other than two-dimensional sections, capable of simulating Reynolds number flows exceeding $25 \times 10_6$.

9B006 Acoustic vibration test equipment capable of producing sound pressure levels of 160 Db or more (referenced to 20 uPa) with a rated output of 4 kW or more at a test cell temperature exceeding 1,273 K (1,000 °C), and "specially designed" quartz heaters therefor.
LICENSE REQUIREMENTS
Reason for Control: NS, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 2
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
LVS: $3000
GBS: Yes
CIV: Yes
LIST OF ITEMS CONTROLLED
Related Controls: See also 9B106. Note that some items in 9B006 may also be controlled under 9B106
Related Definitions: N/A
Items: The list of items controlled is contained in the ECCN heading

9B007 Equipment "specially designed" for inspecting the integrity of rocket motors and using Non-Destructive Test (NDT) techniques other than planar x-ray or basic physical or chemical analysis.
LICENSE REQUIREMENTS
Reason for Control: NS, MT, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 1
MT applies to entire entry	MT Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
LVS: N/A
GBS: N/A
CIV: N/A
LIST OF ITEMS CONTROLLED
Related Controls: N/A
Related Definitions: N/A
Items: The list of items controlled is contained in the ECCN heading

9B008 Direct measurement wall skin friction transducers "specially designed" to

operate at a test flow total (stagnation) temperature exceeding 833 K (560 °C)).

LICENSE REQUIREMENTS

Reason for Control: NS, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 2
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: $5000

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading

9B009 Tooling "specially designed" for producing turbine engine powder metallurgy rotor "parts" or "components" capable of operating at stress levels of 60% of Ultimate Tensile Strength (UTS) or more and metal temperatures of 873 K (600 °C) or more.

LICENSE REQUIREMENTS

Reason for Control: NS, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 2
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: $5000

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: See ECCN 9B002.

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading

9B010 Equipment "Specially Designed" for the Production of Items Specified by 9A012.

LICENSE REQUIREMENTS

Reason for Control: NS, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 1.
AT applies to entire entry	AT Column 1.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading.

9B105 'Aerodynamic test facilities' for speeds of Mach 0.9 or more, usable for rockets, missiles, or unmanned aerial vehicles capable of achieving a "range" equal to or greater than 300 km and their subsystems.

LICENSE REQUIREMENTS

Reason for Control: MT, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
MT applies to entire entry	MT Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: See also 9B005

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading.

Note: 9B105 does not control wind tunnels for speeds of Mach 3 or less with the dimension of the 'test cross section size' equal to or less than 250 mm.

Technical Notes:

1. 'Aerodynamic test facilities' includes wind tunnels and shock tunnels for the study of airflow over objects.

2. 'Test cross section size' means the diameter of the circle, or the side of the square, or the longest side of the rectangle, or the major axis of the ellipse at the largest 'test cross section' location. 'Test cross section' is the section perpendicular to the flow direction.

9B106 Environmental chambers usable for rockets, missiles, or unmanned aerial vehicles capable of achieving a "range" equal to or greater than 300 km and their subsystems, as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: MT, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
MT applies to entire entry	MT Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: a. Environmental chambers having all of the following characteristics:

a.1. Capable of simulating any of the following flight conditions:

a.1.a. Altitude equal to or greater than 15,000 m; or

a.1.b. Temperature range from below −50 °C to above 125 °C; and

a.2. Incorporating, or designed or modified to incorporate, a shaker unit or other vibration test equipment to produce vibration environments equal to or greater than 10 g rms, measured 'bare table,' between 20 Hz and 2 kHz while imparting forces equal to or greater than 5 kN;

Technical Notes: 1. Item 9B106.a.2 describes systems that are capable of generating a vibration environment with a single wave (e.g., a sine wave) and systems capable of generating a broad band random vibration (i.e., power spectrum).

2. The term 'bare table' means a flat table, or surface, with no fixture or fittings.

3. In Item 9B106.a.2, designed or modified means the environmental chamber provides appropriate interfaces (e.g., sealing devices) to incorporate a shaker unit or other vibration test equipment as specified in this Item.

b. Environmental chambers capable of simulating all of the following flight conditions:

b.1. Acoustic environments at an overall sound pressure level of 140 dB or greater (referenced to 2×10^{-5} N/m^2) or with a total rated acoustic power output of 4kW or greater; and

b.2. Any of the following:

b.2.a. Altitude equal to or greater than 15,000 m; or

b.2.b. Temperature range of at least −50 °C to + 125 °C.

9B115 "Specially designed" production "equipment" for systems, sub-systems and "components" controlled by ECCN 9A101 or by USML Category IV(d)(2), (d)(3), (d)(4), or (h)(17).

LICENSE REQUIREMENTS

Reason for Control: MT, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
MT applies to entire entry	MT Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: (1) Although items described in USML Category IV(d)(2), (d)(3), (d)(4), or (h)(17) are ''subject to the ITAR'' (see 22 CFR parts 120 through 130), the production ''equipment'' controlled in this entry that is related to these items is subject to the export licensing authority of BIS. (2) ''Specially designed'' production ''equipment'' for systems, sub-systems, and ''components'' described in USML Category IV(d)(1), (d)(7), (h)(1), (h)(4), (h)(6), (h)(7), (h)(8), (h)(9), (h)(11), (h)(20), (h)(21), (h)(26), or (h)(28) are controlled by ECCN 9B604. (3) See ECCN 0A919 for foreign-made ''military commodities'' that incorporate more than a *de minimis* amount of US-origin ''600 series'' controlled content.

Related Definitions: NA

Items: The list of items controlled is contained in the ECCN heading.

9B116 "Specially designed" "production facilities" for systems, sub-systems, and "components" controlled by ECCN 9A012 (applies to MT-controlled items only) or 9A101 or by USML Category IV(d)(2), (d)(3), (d)(4), or (h)(17).

LICENSE REQUIREMENTS

Reason for Control: MT, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
MT applies to entire entry	MT Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: (1) Although items described in USML Category IV(d)(2), (d)(3), (d)(4), or (h)(17) are ''subject to the ITAR'' (see 22 CFR parts 120 through 130), the ''production facilities'' controlled in this entry that are related to these items are subject to the export licensing authority of BIS. (2) ''Specially designed'' ''production facilities'' for systems, sub-systems, and ''components'' described in USML Category IV(d)(1), (d)(7), (h)(1), (h)(4), (h)(6), (h)(7), (h)(8), (h)(9), (h)(11), (h)(20), (h)(21), (h)(26), or (h)(28) are controlled by ECCN 9B604. (3) See ECCN 0A919 for foreign-made ''military commodities'' that incorporate more than a *de minimis* amount of US-origin ''600 series'' controlled content.

Related Definitions: NA

Items: The list of items controlled is contained in the ECCN heading.

9B117 Test Benches and Test Stands for Solid or Liquid Propellant Rockets, Motors or Rocket Engines, Having Either of the Following Characteristics (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: MT, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
MT applies to entire entry	MT Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
LVS: N/A
GBS: N/A
CIV: N/A
LIST OF ITEMS CONTROLLED
Related Controls: See also 9B990
Related Definitions: N/A
Items: a. The capacity to handle solid or liquid propellant rocket motors or rocket engines having a thrust greater than 68 kN; or

b. Capable of simultaneously measuring the three axial thrust components.

9B515 Test, inspection, and production "equipment" "specially designed" for "spacecraft" and related commodities, as follows (see List of Items Controlled).

LICENSE REQUIREMENTS
Reason for Control: NS, RS, AT

Control(s)	Country chart
NS applies to entire entry	NS Column 1
RS applies to entire entry	RS Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
LVS: $1500; $5000 for 9B515.b
GBS: N/A
CIV: N/A
SPECIAL CONDITIONS FOR STA
STA: Paragraph (c)(2) of License Exception STA (§740.20(c)(2) of the EAR) may not be used for any item in 9B515.
LIST OF ITEMS CONTROLLED
Related Controls: N/A
Related Definitions: N/A
Items:

a. Test, inspection, and production ''equipment'' ''specially designed'' for the ''production'' or ''development'' of commodities enumerated in ECCN 9A515.a, or USML Category XV(a) or XV(e).

Note: ECCN 9B515.a includes equipment, cells, and stands ''specially designed'' for the analysis or isolation of faults in commodities enumerated in ECCN 9A515.a or USML Category XV(a) or XV(e).

b. Environmental test chambers capable of pressures below (10^{-4}) Torr, and ''specially designed'' for commodities enumerated in 9A515.a or USML Category XV(a).

9B604 Test, inspection, and production "equipment" and related commodities "specially designed" for the "development," "production," repair, overhaul, or refurbishing of commodities in ECCN 9A604 or related defense articles in USML Category IV (see List of Items Controlled).

LICENSE REQUIREMENTS
Reason for Control: NS, RS, MT, AT, UN

Control(s)	Country chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 1
RS applies to entire entry	RS Column 1
MT applies to 9B604.a and .b and to 9B604.d ''specially designed'' ''production facilities'' or production ''equipment'' for defense articles identified as MTCR Annex items in USML Category IV(d)(1), (h)(1), (h)(4), (h)(6), (h)(7), (h)(8), (h)(9), (h)(11), (h)(20), (h)(21), or (h)(26).	MT Column 1
AT applies to entire entry	AT Column 1
UN applies to entire entry	See §746.1(b) for UN controls

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
LVS: $1,500
GBS: N/A
CIV: N/A
SPECIAL CONDITIONS FOR STA
STA: Paragraph (c)(2) of License Exception STA (§740.20(c)(2) of the EAR) may not be used for any item in this ECCN 9B604.
LIST OF ITEMS CONTROLLED
Related Controls: (1) ''Production facilities'' for the ''production'' or ''development'' of commodities enumerated or otherwise described in ECCN 9A012 or 9A101 or in USML Category IV(d)(2), (d)(3), (d)(4), or (h)(17) are controlled by ECCN 9B116. (2) Test, inspection, and other production ''equipment'' ''specially designed'' for the ''production'' or ''development'' of commodities enumerated or otherwise described in ECCN 9A101 or in USML Category IV(d)(2), (d)(3), (d)(4), or (h)(17) are controlled by ECCN 9B115. (3) See ECCN 0A919 for foreign-made ''military commodities'' that incorporate more than a *de minimis* amount of US-origin ''600 series'' controlled content.
Related Definitions: N/A
Items: a. ''Production facilities'' ''specially designed'' for items that are controlled by USML Category IV(a)(1) or (a)(2).

b. Test, calibration, and alignment equipment ''specially designed'' for items that are controlled by USML Category IV(h)(28).

c. Test, inspection, and other production ''equipment'' that is ''specially designed'' for the ''development,'' ''production,'' repair, overhaul, or refurbishing of commodities described in ECCN 9A604, or defense articles controlled under USML Category IV, and not specified in ECCN 0B604.a or in ECCN 9B604.a, .b, or .d.

d. ''Specially designed'' ''production facilities'' or production ''equipment'' for systems, sub-systems, and ''components'' controlled by USML Category IV(d)(1), (d)(7), (h)(1), (h)(4), (h)(6), (h)(7), (h)(8), (h)(9), (h)(11), (h)(20), (h)(21), (h)(26), or (h)(28).

e. through w. [Reserved]

x. ''Parts,'' ''components,'' ''accessories,'' and ''attachments'' that are ''specially designed'' for a commodity subject to control in paragraph .a or .b of this ECCN.

9B610 Test, inspection, and production "equipment" and related commodities "specially designed" for the "development" or "production" of commodities enumerated or otherwise described in ECCN 9A610 or USML Category VIII (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, RS, MT, AT, UN

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry except 9B610.c.	NS Column 1
RS applies to entire entry	RS Column 1
MT applies to 9B610.c	MT Column 1
AT applies to entire entry	AT Column 1
UN applies to entire entry	See §746.1(b) for UN controls

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: $1500

GBS: N/A

CIV: N/A

SPECIAL CONDITIONS FOR STA

STA: Paragraph (c)(2) of License Exception STA (§740.20(c)(2) of the EAR) may not be used for any item in 9B610.

LIST OF ITEMS CONTROLLED

Related Controls: USML Category VIII(h)(1) controls ''parts,'' ''components,'' ''accessories,'' and ''attachments'' ''specially designed'' for the aircraft enumerated or otherwise described in Category VIII(h)(1), but does not control the commodities enumerated or otherwise described in ECCN 9B610. USML Category VIII(h)(2)–(28) controls other aircraft ''parts,'' ''components,'' ''accessories,'' ''attachments,'' and ''systems.''

Related Definitions: N/A

Items: a. Test, inspection, and production ''equipment'' ''specially designed'' for the ''production,'' ''development,'' operation, installation, maintenance, repair, overhaul, or refurbishing of commodities enumerated or otherwise described in ECCN 9A610 (except 9A610.y) or USML Category VIII, and ''parts,'' ''components,'' ''accessories,'' and ''attachments'' ''specially designed'' therefor.

b. Environmental test facilities ''specially designed'' for the certification, qualification, or testing of commodities enumerated or otherwise described in ECCN 9A610 (except for 9A610.y) or USML Category VIII and ''parts,'' ''components,'' ''accessories,'' and ''attachments'' ''specially designed'' therefor.

c. ''Production facilities'' designed or modified for UAVs or drones that are (i) controlled by either USML paragraph VIII(a) or ECCN 9A610.a and (ii) capable of a range equal to or greater than 300 km.

9B619 Test, inspection, and production "equipment" and related commodities "specially designed" for the "development" or "production" of commodities enumerated or otherwise described in ECCN 9A619 or USML Category XIX (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, RS, AT, UN

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry except 9B619.y.	NS Column 1
RS applies to entire entry except 9B619.y.	RS Column 1
AT applies to entire entry	AT Column 1
UN applies to entire entry except 9B619.y.	See §746.1(b) for UN controls

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: $1,500

GBS: N/A

CIV: N/A

SPECIAL CONDITIONS FOR STA

STA: Paragraph (c)(2) of License Exception STA (§740.20(c)(2) of the EAR) may not be used for any item in ECCN 9B619.

LIST OF ITEMS CONTROLLED

Related Controls: USML Category XIX(f)(1) controls ''parts,'' ''components,'' ''accessories,'' and ''attachments'' ''specially designed'' for the engines described in Category XIX(f)(1), but does not control the commodities enumerated or otherwise described in ECCN 9B619. USML Category XIX(f)(2)–(11) controls other engine ''parts,'' ''components,'' ''accessories,'' ''attachments,'' and ''systems.''

Related Definitions: N/A

Items: a. Test, inspection, and production ''equipment'' ''specially designed'' for the ''production,'' ''development,'' operation, installation, maintenance, repair, overhaul, or refurbishing of commodities enumerated or otherwise described in ECCN 9A619 (except for 9A619.y) or in USML Category XIX, and ''parts,'' ''components,'' ''accessories,'' and ''attachments'' ''specially designed'' therefor.

b. Equipment, cells, or stands ''specially designed'' for testing, analysis and fault isolation of engines, ''systems,'' ''components,'' ''parts,'' ''accessories,'' and ''attachments'' enumerated or otherwise described in ECCN

9A619 (except for 9A619.y) on the CCL or in Category XIX on the USML.

c. through x. [Reserved]

y. Bearing pullers ''specially designed'' for the ''production'' or ''development'' of commodities enumerated or otherwise described in ECCN 9A619 (except for 9A619.y) or USML Category XIX and ''parts,'' ''components,'' ''accessories,'' and ''attachments'' ''specially designed'' therefor.

9B620 Test, inspection, and production commodities for cryogenic and "superconductive" equipment (see List of Items controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, RS, AT, UN

Control(s)	Country chart (see Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 1
RS applies to entire entry	RS Column 1
AT applies to entire entry	AT Column 1
UN applies to entire entry	See §746.1(b) for UN controls

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: $1500.

GBS: N/A

CIV: N/A

SPECIAL CONDITIONS FOR STA

STA: Paragraph (c)(2) of License Exception STA (§740.20(c)(2) of the EAR) may not be used for any item in 9B620.

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: a. Test, inspection, and production end items and equipment ''specially designed'' for the ''development,'' ''production,'' repair, overhaul or refurbishing of items controlled in ECCN 9A620.

b. [Reserved]

9B990 Vibration test equipment and "specially designed" "parts" and "components," n.e.s.

LICENSE REQUIREMENTS

Reason for Control: AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading

9B991 "Specially designed" "equipment," tooling or fixtures, not controlled by 9B001, for manufacturing or measuring gas turbine blades, vanes or tip shroud castings, as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: a. Automated equipment using nonmechanical methods for measuring airfoil wall thickness;

b. Tooling, fixtures or measuring equipment for the ''laser'', water jet or ECM/EDM hole drilling processes controlled by 9E003.c;

c. Ceramic core leaching equipment;

d. Ceramic core manufacturing equipment or tools;

e. Ceramic shell wax pattern preparation equipment;

f. Ceramic shell burn out or firing equipment.

C. ''MATERIALS''

9C110 Resin impregnated fiber prepregs and metal coated fiber preforms therefor, for composite structures, laminates and manufactures specified in 9A110, made either with organic matrix or metal matrix utilizing fibrous or filamentary reinforcements having a "specific tensile strength" greater than 7.62×10^4 m and a "specific modulus" greater than 3.18×10^6 m.

LICENSE REQUIREMENTS

Reason for Control: MT, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
MT applies to entire entry	MT Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: N/A

GBS: N/A

CIV: N/A

LIST OF ITEMS CONTROLLED

Related Controls: (1) See also 1C010 and 1C210.c.

(2) The only resin impregnated fiber prepregs controlled by entry 9C110 are those using resins with a glass transition temperature (T_g), after cure, exceeding 418 K (145 °C)

as determined by ASTM D4065 or national equivalents.

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading.

9C610 Materials "specially designed" for commodities controlled by USML Category VIII or ECCN 9A610 and not elsewhere specified in the CCL or the USML (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, RS, AT, UN

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 1
RS applies to entire entry	RS Column 1
AT applies to entire entry	AT Column 1
UN applies to entire entry	See §746.1(b) for UN controls

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: $1500

GBS: N/A

CIV: N/A

SPECIAL CONDITIONS FOR STA

STA: Paragraph (c)(2) of License Exception STA (§740.20(c)(2) of the EAR) may not be used for any item in 9C610.

LIST OF ITEMS CONTROLLED a. Materials not elsewhere specified in the USML or the CCL and ''specially designed'' for commodities enumerated or otherwise described in USML Category VIII or ECCN 9A610 (except 9A610.y).

Note 1: Materials enumerated elsewhere in the CCL, such as in a CCL Category 1 ECCN, are controlled pursuant to controls of the applicable ECCN.

Note 2: Materials ''specially designed'' for both aircraft enumerated in USML Category VIII and aircraft enumerated in ECCN 9A610 are subject to the controls of this ECCN.

b. [Reserved]

9C619 Materials "specially designed" for commodities controlled by USML Category XIX or ECCN 9A619 and not elsewhere specified in the CCL or on the USML (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, RS, AT, UN

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 1
RS applies to entire entry	RS Column 1
AT applies to entire entry	AT Column 1
UN applies to entire entry	See §746.1(b) for UN controls

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

LVS: $1,500

GBS: N/A

CIV: N/A

SPECIAL CONDITIONS FOR STA

STA: Paragraph (c)(2) of License Exception STA (§740.20(c)(2) of the EAR) may not be used for any item in ECCN 9C619.

LIST OF ITEMS CONTROLLED

Related Controls: (1) See USML subcategory XIII(f) for controls on structural materials specifically designed, developed, configured, modified, or adapted for defense articles, such as USML Category XIX engines. (2) See ECCN 0A919 for foreign made ''military commodities'' that incorporate more than a *de minimis* amount of U.S.-origin ''600 series'' controlled content.

Related Definitions: N/A

Items:

a. Materials not controlled by paragraph .b of this entry and not elsewhere specified in the CCL or on the USML, and ''specially designed'' for commodities enumerated or otherwise described in USML Category XIX or ECCN 9A619 (except 9A619.y).

b. Materials ''specially designed'' for use in certain gas turbine engines, as follows:

b.1. Powders ''specially designed'' for thermal or environmental barrier coating of defense articles enumerated or described in USML Category XIX paragraphs (f)(1)–(f)(4) for engines listed in (f)(1);

b.2. Superalloys (*i.e.*, nickel, cobalt or iron based), used in directionally solidified or single crystal casting, ''specially designed'' for defense articles enumerated or described in USML Category XIX paragraphs (f)(1)–(f)(4) for engines listed in paragraph (f)(1); or

b.3. Imide matrix, metal matrix, or ceramic matrix composite material (*i.e.*, reinforcing fiber combined with a matrix) ''specially designed'' for defense articles enumerated or described in USML Category XIX paragraphs (f)(1)–(f)(4) for engines listed in paragraph (f)(1).

Note 1: Materials enumerated elsewhere in the CCL, such as in a CCL Category 1 ECCN, are controlled pursuant to the controls of the applicable ECCN.

Note 2: Materials described in paragraph .a of this entry that are ''specially designed'' for both an engine enumerated in USML Category XIX and an engine enumerated in ECCN 9A619 are subject to the controls of this ECCN 9C619.

Note 3: Materials described in this entry that are or have been used in gas turbine engines in production (i.e., not in development) that are not enumerated or otherwise described on the USML or ECCN 9A619 are not controlled by this entry.

D. ''SOFTWARE''

9D001 "Software" "specially designed" or modified for the "development" of equipment or "technology" controlled by ECCN 9A001 to 9A004, 9A012, 9A101 (except for items in 9A101.b that are "subject to the ITAR," see 22 CFR part 121), 9A106.d. or

.e, 9A110, or 9A120, 9B (except for ECCNs 9B604, 9B610, 9B619, 9B990, and 9B991), or ECCN 9E003.

LICENSE REQUIREMENTS

Reason for Control: NS, MT, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to "software" for equipment controlled by 9A001 to 9A004, 9A012, 9B001 to 9B010, and technology controlled by 9E003.	NS Column 1
MT applies to "software" for equipment controlled by 9B116 for MT reasons.	MT Column 1
AT applies to entire entry	AT Column 1

REPORTING REQUIREMENTS See §743.1 of the EAR for reporting requirements for exports under License Exceptions, and Validated End-User authorizations

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

SPECIAL CONDITIONS FOR STA

STA: License Exception STA may not be used to ship or transmit "software" "specially designed" or modified for the "development" of equipment or "technology", specified by ECCNs 9B001.b. or 9E003.a.1, 9E003.a.2 to a.5, 9E003.a.8, or 9E003.h to any of the destinations listed in Country Group A:6 (See Supplement No. 1 to part 740 of the EAR).

LIST OF ITEMS CONTROLLED

Related Controls: "Software" that is "required" for the "development" of items specified in ECCNs 9A005 to 9A011, 9A101.b (except for items that are subject to the EAR), 9A103 to 9A105, 9A106.a, .b, and .c, 9A107 to 9A109, 9A110 (for items that are "specially designed" for use in missile systems and subsystems), and 9A111 to 9A119 is "subject to the ITAR."

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading

9D002 "Software" "specially designed" or modified for the "production" of equipment controlled by ECCN 9A001 to 9A004, 9A012, 9A101 (except for items in 9A101.b that are "subject to the ITAR," see 22 CFR part 121), 9A106.d or .e, 9A110, or 9A120, 9B (except for ECCNs 9B604, 9B610, 9B619, 9B990, and 9B991).

LICENSE REQUIREMENTS

Reason for Control: NS, MT, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to "software" for equipment controlled by 9A001 to 9A004, 9A012, 9B001 to 9B010.	NS Column 1
MT applies to "software" for equipment controlled by 9B116 for MT reasons.	MT Column 1
AT applies to entire entry	AT Column 1

REPORTING REQUIREMENTS See §743.1 of the EAR for reporting requirements for exports under License Exceptions, and Validated End-User authorizations

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

SPECIAL CONDITIONS FOR STA

STA: License Exception STA may not be used to ship or transmit "software" "specially designed" or modified for the "production" of equipment specified by 9B001.b to any of the destinations listed in Country Group A:6 (See Supplement No. 1 to part 740 of the EAR).

LIST OF ITEMS CONTROLLED

Related Controls: "Software" that is "required" for the "production" of items specified in ECCNs 9A005 to 9A011, 9A101.b (except for items that are subject to the EAR), 9A103 to 9A105, 9A106.a, .b, and .c, 9A107 to 9A109, 9A110 (for items that are "specially designed" for use in missile systems and subsystems), and 9A111 to 9A119 is "subject to the ITAR."

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading

9D003 "Software" Incorporating "Technology" Specified by ECCN 9E003.h and Used in "FADEC Systems" for Systems Controlled by ECCN 9A001 to 9A003, 9A101 (Except for Items in 9A101.b That Are "Subject to the ITAR", See 22 CFR Part 121), 9A106.d or .e, or 9B (Except for ECCNs 9B604, 9B610, 9B619, 9B990, and 9B991).

LICENSE REQUIREMENTS

Reason for Control: NS, MT, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to "software" for "use" of "FADEC systems" for equipment controlled by 9A001 to 9A003.	NS Column 1.
MT applies to "software" required for the "use" of "FADEC systems" for gas turbine engines controlled by 9A101, or 9A106..	MT Column 1.
AT applies to entire entry	AT Column 1.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: Yes, except N/A for MT

TSR: Yes, except N/A for MT

LIST OF ITEMS CONTROLLED

Related Controls: (1) See also 9D103. (2) ''Software'' ''required'' for the ''use'' of equipment specified in ECCNs 9A004 (except for items that are subject to the EAR), 9A005 to 9A011, 9A101.b (except for items that are subject to the EAR), 9A103 to 9A105, 9A106.a, .b, and .c, 9A107 to 9A109, 9A110 (for items that are ''specially designed'' for use in missile systems and subsystems), and 9A111 to 9A119 is ''subject to the ITAR'' (see 22 CFR parts 120 through 130). (3) ''Software'' directly related to defense articles that are ''subject to the ITAR'' (see 22 CFR parts 120 through 130) is also ''subject to the ITAR'' (see 22 CRR parts 120 through 130).

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading.

9D004 Other "software" as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, MT, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 1.
AT applies to entire entry	AT Column 1.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

SPECIAL CONDITIONS FOR STA

STA: License Exception STA may not be used to ship or transmit software in 9D004.a and 9D004.c to any of the destinations listed in Country Group A:6 (See Supplement No. 1 to part 740 of the EAR).

LIST OF ITEMS CONTROLLED

Related Controls: See also 9D104.

Related Definitions: N/A

Items: a. 2D or 3D viscous ''software'', validated with wind tunnel or flight test data required for detailed engine flow modelling;

b. ''Software'' for testing aero gas turbine engines, assemblies, ''parts'' or ''components,'' ''specially designed'' to collect, reduce and analyze data in real time and capable of feedback control, including the dynamic adjustment of test articles or test conditions, as the test is in progress;

c. ''Software'' ''specially designed'' to control directional solidification or single crystal material growth in equipment specified by 9B001.a or 9B001.c;

d. [Reserved]

e. ''Software'' ''specially designed'' or modified for the operation of items specified by 9A012;

f. ''Software'' ''specially designed'' to design the internal cooling passages of aero gas turbine engine blades, vanes and ''tip shrouds'';

g. ''Software'' having all of the following:

g.1. ''specially designed'' to predict aero thermal, aeromechanical and combustion conditions in aero gas turbine engines; and

g.2. Theoretical modeling predictions of the aero thermal, aeromechanical and combustion conditions, which have been validated with actual turbine engine (experimental or production) performance data.

9D005 "Software" Specially Designed or Modified for the Operation of Items Specified by 9A004.e or 9A004.f. (This "Software" Is Controlled by ECCN 9D515.)

9D018 "Software" for the "use" of equipment controlled by 9A018.

(a) See ECCN 9D610 for ''software'' related to aircraft, refuelers, ground equipment, parachutes, harnesses, instrument flight trainers and ''parts'', ''accessories,'' and ''attachments'' for the forgoing that, immediately prior to October 15, 2013, were classified under 9A018.a.1, .a.3, .c, .d, .e, or .f.

(b) See ECCN 9D619 for ''software'' related to military trainer aircraft turbo prop engines and ''parts'' and ''components'' therefor that, immediately prior to October 15, 2013, were classified under ECCN 9A018.a.2 or .a.3.

(c) Software related to certain armored ground transport vehicles that prior to January 6, 2014 were classified under ECCN 9A018.b is EAR99 (See 0D606).

9D101 "Software" "specially designed" or modified for the "use" of commodities controlled by 9B105, 9B106, 9B116, or 9B117.

LICENSE REQUIREMENTS

Reason for Control: MT, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
MT applies to entire entry	MT Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

LIST OF ITEMS CONTROLLED

Related Controls: (1) See ECCN 9D610 for ''software'' related to aircraft, refuelers, ground equipment, parachutes, harnesses, instrument flight trainers and ''parts,'' ''accessories,'' and ''attachments'' for the forgoing that, immediately prior to October 15, 2013, were classified under 9A018.a.1, .a.3, .c, .d, .e, or .f. (2) See ECCN 9D619 for ''software'' related to military trainer aircraft turbo prop engines and ''parts'' and ''components'' therefor that, immediately prior to October 15, 2013, were classified under ECCN 9A018.a.2 or .a.3.

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading

9D103 "Software" "specially designed" for modelling, simulation or design integration of "missiles," or the subsystems controlled by 9A005, 9A007, 9A009, 9A105, 9A106, 9A107, 9A108, 9A109, 9A116 or 9A119. (This entry is "subject to the ITAR." See 22 CFR parts 120 through 130.)

9D104 "Software" specially designed or modified for the "use" of equipment controlled by ECCN 9A001, 9A012 (for MT controlled items only), 9A101 (except for items in 9A101.b that are "subject to the ITAR", see 22 CFR part 121), or 9A106.d.

LICENSE REQUIREMENTS

Reason for Control: MT, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
MT applies to entire entry	MT Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

LIST OF ITEMS CONTROLLED

Related Controls: ''Software'' for commodities specified in ECCNs 9A005 to 9A011, 9A103 to 9A105, 9A101.b (except for items that are subject to the EAR), 9A106.a, .b, and .c, 9A107 to 9A109, 9A111, 9A115 to 9A118 is ''subject to the ITAR'' (see 22 CFR parts 120 through 130).

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading.

9D105 "Software" that coordinates the function of more than one subsystem, "specially designed" or modified for "use" in rockets, missiles, or unmanned aerial vehicles capable of achieving a "range" equal to or greater than 300 km. (These items are "subject to the ITAR." See 22 CFR parts 120 through 130.)

9D515 "Software" "specially designed" for the "development," "production," operation, installation, maintenance, repair, overhaul, or refurbishing of "spacecraft" and related commodities, as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, RS, AT

Control(s)	Country Chart (see Supp. No. 1 to part 738)
NS applies to entire entry except 9D515.y.	NS Column 1
RS applies to entire entry except 9D515.y.	RS Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

SPECIAL CONDITIONS FOR STA

STA: (1) Paragraph (c)(1) of License Exception STA (§740.20(c)(1) of the EAR) may not be used for 9D515.b, .d, or .e. (2) Paragraph (c)(2) of License Exception STA (§740.20(c)(2) of the EAR) may not be used for any ''software'' in 9D515.

LIST OF ITEMS CONTROLLED

Related Controls: ''Software'' directly related to articles enumerated in USML Category XV is subject to the control of USML paragraph XV(f). See also ECCNs 3D001, 6D001, 6D002, and 6D991 for controls of specific software ''specially designed'' for certain ''space-qualified'' items.

Related Definitions: N/A

Items:

a. ''Software'' (other than ''software'' controlled in paragraphs .b, .d, or .e of this entry) ''specially designed'' for the ''development,'' ''production,'' operation, installation, maintenance, repair, overhaul, or refurbishing of commodities controlled by ECCN 9A515 (except 9A515.d or .e) or 9B515.

b. ''Source code'' that:

b.1. Contains the algorithms or control principles (e.g., for clock management), precise orbit determination (e.g., for ephemeris or pseudo range analysis), signal construct (e.g., pseudo-random noise (PRN) anti-spoofing) ''specially designed'' for items controlled by ECCN 9A515;

b.2. Is ''specially designed'' for the integration, operation, or control of items controlled by ECCN 9A515;

b.3. Contains algorithms or modules ''specially designed'' for system, subsystem, component, part, or accessory calibration, manipulation, or control of items controlled by ECCN 9A515;

b.4. Is ''specially designed'' for data assemblage, extrapolation, or manipulation of items controlled by ECCN 9A515;

b.5. Contains the algorithms or control laws ''specially designed'' for attitude, position, or flight control of items controlled in ECCN 9A515; or

b.6. Is ''specially designed'' for built-in test and diagnostics for items controlled by ECCN 9A515.

c. [Reserved]

d. ''Software'' ''specially designed'' for the ''development,'' ''production,'' operation, failure analysis or anomaly resolution of commodities controlled by ECCN 9A515.d.

e. ''Software'' ''specially designed'' for the ''development,'' ''production,'' operation,

failure analysis or anomaly resolution of commodities controlled by ECCN 9A515.e.

f. through x. [Reserved]

y. Specific ''software'' ''specially designed'' for the ''development,'' ''production,'' operation, or maintenance of commodities enumerated in ECCN 9A515.y.

9D604 "Software" "specially designed" for the "development," "production," operation, or maintenance of commodities controlled by ECCN 9A604 or 9B604 (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, RS, MT, AT, UN

Control(s)	Country chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 1
RS applies to entire entry	RS Column 1
MT applies to "software," as described in paragraph .a of this entry, for commodities controlled for MT reasons in ECCN 9A604.c or .d, or ECCN 9B604.	MT Column 1
AT applies to entire entry	AT Column 1
UN applies to entire entry	See §746.1(b) for UN controls

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

SPECIAL CONDITIONS FOR STA

STA: Paragraph (c)(2) of License Exception STA (§740.20(c)(2) of the EAR) may not be used for any item in this ECCN 9D604.

LIST OF ITEMS CONTROLLED

Related Controls: (1) Software directly related to articles enumerated or otherwise described in USML Category IV is controlled under USML Category IV(i). (2) See also ECCNs 9D101 and 9D104 for controls on ''software'' for the ''use'' of missiles and related commodities. (3) See ECCN 0A919 for foreign-made ''military commodities'' that incorporate more than a *de minimis* amount of U.S.-origin ''600 series'' controlled content.

Related Definitions: N/A

Items

a. ''Software'' ''specially designed'' for the ''development,'' ''production,'' operation or maintenance of commodities controlled by ECCN 9A604 or ECCN 9B604.

b. [Reserved]

9D610 Software "specially designed" for the "development," "production," operation, or maintenance of military aircraft and related commodities controlled by 9A610, equipment controlled by 9B610, or materials controlled by 9C610 (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, RS, MT, AT, UN

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry except 9D610.y.	NS Column 1
RS applies to entire entry except 9D610.y.	RS Column 1
MT applies to software ''specially designed'' for the operation, installation, maintenance, repair, overhaul, or refurbishing of commodities controlled for MT reasons in 9A610 or 9B610.	MT Column 1
AT applies to entire entry	AT Column 1
UN applies to entire entry except 9D610.y.	See §746.1(b) for UN controls

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

SPECIAL CONDITIONS FOR STA

STA: (1) Paragraph (c)(1) of License Exception STA (§740.20(c)(1) of the EAR) may not be used for 9D610.b. (2) Paragraph (c)(2) of License Exception STA (§740.20(c)(2) of the EAR) may not be used for any software in 9D610.

LIST OF ITEMS CONTROLLED

Related Controls: Software directly related to articles enumerated or otherwise described in USML Category VIII is subject to the control of USML paragraph VIII(i).

Related Definitions: N/A

Items: a. ''Software'' (other than software controlled in paragraphs .b or .y of this entry) ''specially designed'' for the ''development,'' ''production,'' operation, or maintenance of commodities controlled by ECCN 9A610, ECCN 9B610, or ECCN 9C610.

b. ''Software'' ''specially designed'' for the ''development'' or ''production'' of any of the following:

b.1. Static structural members;

b.2. Exterior skins, removable fairings, non-removable fairings, radomes, access doors and panels, and in-flight opening doors;

b.3. Control surfaces, leading edges, trailing edges, and leading edge flap seals;

b.4. Leading edge flap actuation system commodities (*i.e.*, power drive units, rotary geared actuators, torque tubes, asymmetry brakes, position sensors, and angle gearboxes) ''specially designed'' for fighter, attack, or bomber aircraft controlled in USML Category VIII;

b.5. Engine inlets and ducting;

b.6. Fatigue life monitoring systems ''specially designed'' to relate actual usage to the analytical or design spectrum and to compute amount of fatigue life ''specially designed'' for aircraft controlled by either USML subcategory VIII(a) or ECCN 9A610.a, except for Military Commercial Derivative Aircraft;

b.7. Landing gear, and ''parts'' and ''components'' ''specially designed'' therefor, ''specially designed'' for use in aircraft weighing more than 21,000 pounds controlled by either USML subcategory VIII(a) or ECCN 9A610.a, except for Military Commercial Derivative Aircraft;

b.8. Conformal fuel tanks and ''parts'' and ''components'' ''specially designed'' therefor;

b.9. Electrical ''equipment,'' ''parts,'' and ''components'' ''specially designed'' for electro-magnetic interference (EMI)—i.e., conducted emissions, radiated emissions, conducted susceptibility and radiated susceptibility—protection of aircraft that conform to the requirements of MIL–STD–461;

b.10. HOTAS (Hand-on Throttle and Stick) controls, HOCAS (Hands on Collective and Stick), Active Inceptor Systems (i.e., a combination of Active Side Stick Control Assembly, Active Throttle Quadrant Assembly, and Inceptor Control Unit), rudder pedal assemblies for digital flight control systems, and parts and components ''specially designed'' therefor;

b.11. Integrated Vehicle Health Management Systems (IVHMS), Condition Based Maintenance (CBM) Systems, and Flight Data Monitoring (FDM) systems;

b.12. Equipment ''specially designed'' for system prognostic and health management of aircraft;

b.13. Active Vibration Control Systems; or

b.14. Self-sealing fuel bladders ''specially designed'' to pass a .50 caliber or larger gunfire test (MIL–DTL–5578, MIL–DTL–27422).

c. to x. [Reserved]

y. Specific ''software'' ''specially designed'' for the ''development,'' ''production,'' operation, or maintenance of commodities enumerated in ECCN 9A610.y.

9D619 Software "specially designed" for the "development," "production," operation or maintenance of military gas turbine engines and related commodities controlled by 9A619, equipment controlled by 9B619, or materials controlled by 9C619 (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, RS, AT, UN

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry except 9D619.y.	NS Column 1
RS applies to entire entry except 9D619.y.	RS Column 1
AT applies to entire entry	AT Column 1
UN applies to entire entry except 9D619.y.	See §746.1(b) for UN controls

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

SPECIAL CONDITIONS FOR STA

STA: (1) Paragraph (c)(1) of License Exception STA (§740.20(c)(1) of the EAR) may not be used for 9D619.b. (2) Paragraph (c)(2) of License Exception STA (§740.20(c)(2) of the EAR) may not be used for any software in ECCN 9D619.

LIST OF ITEMS CONTROLLED

Related Controls: Software directly related to articles enumerated or otherwise described in USML Category XIX is subject to the control of USML paragraph XIX(g).

Related Definitions: N/A

Items: a. ''Software'' (other than software controlled in paragraph .b of this entry) ''specially designed'' for the ''development,'' ''production,'' operation, or maintenance of commodities controlled by ECCN 9A619 (except 9A619.y), ECCN 9B619 (except 9B619.y), or ECCN 9C619.

b. ''Software'' ''specially designed'' for the ''development'' or ''production'' of any of the following:

b.1. Front, turbine center, and exhaust frames;

b.2. Low pressure compressor (i.e., fan) ''components'' and ''parts'' as follows: Nose cones, casings, blades, vanes, spools, shrouds, blisks, shafts and disks;

b.3. High pressure compressor ''components'' and ''parts'' as follows: Casings, blades, vanes, spools, shrouds, blisks, shafts, disks, and impellers;

b.4. Combustor ''components'' and ''parts'' as follows: Casings, fuel nozzles, swirlers, swirler cups, deswirlers, valve injectors, igniters, diffusers, liners, chambers, cowlings, domes and shells;

b.5. High pressure turbine ''components'' and ''parts'' as follows: Casings, shafts, disks, blades, vanes, nozzles, and tip shrouds;

b.6. Low pressure turbine ''components'' and ''parts'' as follows: Casings, shafts, disks, blades, vanes, nozzles, and tip shrouds;

b.7. Augmentor ''components'' and ''parts'' as follows: Casings, flame holders, spray bars, pilot burners, augmentor fuel controls, flaps (external, convergent, and divergent), guide and syncronization rings, and flame detectors and sensors;

b.8. Mechanical ''components'' and ''parts'' as follows: fuel metering units and fuel pump metering units, valves (fuel throttle, main metering, oil flow management), heat exchangers (air/air, fuel/air, fuel/oil), debris monitoring (inlet and exhaust), seals (carbon, labyrinth, brush, balance piston, and knife-edge), permanent magnetic alternator and generator, eddy current sensors;

b.9. Torquemeter assembly (i.e., housing, shaft, reference shaft, and sleeve);

b.10. Digital engine control systems (e.g., Full Authority Digital Engine Controls (FADEC) and Digital Electronic Engine Controls (DEEC)) ''specially designed'' for gas turbine engines controlled in this ECCN; or

b.11. Engine monitoring systems (i.e., prognostics, diagnostics, and health) ''specially designed'' for gas turbine engines and components controlled in this ECCN.

c. to x. [Reserved]

y. Specific ''software'' ''specially designed'' for the ''development,'' ''production,'' operation, or maintenance of commodities enumerated in ECCN 9A619.y or 9B619.y.

9D620 "Software" "specially designed" for cryogenic and "superconductive" equipment, as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reasons for Control: NS, RS, AT, UN

Control(s)	Country chart (see Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 1
RS applies to entire entry	RS Column 1
AT applies to entire entry	AT Column 1
UN applies to entire entry	See §746.1(b) for UN controls

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

SPECIAL CONDITIONS FOR STA

STA: Paragraph (c)(2) of License Exception STA (§740.20(c)(2) of the EAR) may not be used for any ''software'' in 9D620.

LIST OF ITEMS CONTROLLED

Related Controls: ''Software'' directly related to articles enumerated on USML are subject to the control of that USML category.

Related Definitions: N/A

Items: Software ''specially designed'' for the ''development,'' ''production,'' operation, or maintenance of commodities controlled by ECCNs 9A620 or 9B620.

9D990 "Software", n.e.s., for the "development" or "production" of equipment controlled by 9A990 or 9B990.

LICENSE REQUIREMENTS

Reason for Control: AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
AT applies to "software" for equipment under 9A990 except 9A990.a.	AT Column 1
AT applies to "software" for equipment under 9A990.a only.	AT Column 2

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading

9D991 "Software", for the "development" or "production" of equipment controlled by 9A991 or 9B991.

LICENSE REQUIREMENTS

Reason for Control: AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading

E. ''TECHNOLOGY''

Note 1: ''Development'' or ''production'' ''technology'' controlled by 9E001 to 9E003 for gas turbine engines remains controlled when used for repair or overhaul. Excluded from 9E001 to 9E003 control are: technical data, drawings or documentation for maintenance activities directly associated with calibration, removal or replacement of damaged or unserviceable line replaceable units, including replacement of whole engines or engine modules.

Note 2: USML Category XV(f) and ECCNs 9E001, 9E002 and 9E515 do not control the data transmitted to or from a satellite or ''spacecraft,'' whether real or simulated, when limited to information about the health, operational status, or measurements or function of, or raw sensor output from, the ''spacecraft,'' ''spacecraft'' payload(s), or its associated subsystems or components. Such information is not within the scope of information captured within the definition of ''technology'' in the EAR for purposes of Category 9 Product Group E. Examples of such information, which are commonly referred to as ''housekeeping data,'' include (i) system, hardware, component configuration, and operation status information pertaining to temperatures, pressures, power, currents, voltages, and battery charges; (ii) ''spacecraft'' or payload orientation or position information, such as state vector or ephemeris information; (iii) payload raw mission or science output, such as images, spectra, particle measurements, or field measurements; (iv) command responses; (v) accurate timing information; and (vi) link budget data. The act of processing such telemetry data—i.e., converting raw data into engineering units or readable products—or encrypting it does not, in and of itself, cause the telemetry data to become subject to the ITAR or to ECCN 9E515 for purposes of 9A515, or to ECCNs 9E001 or 9E002 for purposes of 9A004. All classified

technical data directly related to items controlled in USML Category XV or ECCNs 9A515, and defense services using the classified technical data remains subject to the ITAR. This note does not affect controls in USML XV(f), ECCN 9D515, or ECCN 9E515 on software source code or commands that control a ''spacecraft,'' payload, or associated subsystems for purposes of 9A515. This note also does not affect controls in ECCNs 9D001, 9D002, 9E001, or 9E002 on software source code or commands that control a ''spacecraft,'' payload, or associated subsystems for purposes of 9A004.

9E001 "Technology" according to the General Technology Note for the "development" of equipment or "software", controlled by 9A001.b, 9A004, 9A012, 9B (except for ECCNs 9B604, 9B610, 9B619, 9B990 and 9B991), or ECCN 9D001 to 9D004, 9D101, or 9D104.

LICENSE REQUIREMENTS

Reason for Control: NS, MT, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to ''technology'' for items controlled by 9A001.b, 9A004, 9A012, 9B001 to 9B010, 9D001 to 9D004 for NS reasons.	NS Column 1
MT applies to ''technology'' for commodities controlled by 9A012, 9B001, 9B002, 9B003, 9B004, 9B005, 9B007, 9B105, 9B106, 9B115, 9B116, 9B117, 9D001, 9D002, 9D003, or 9D004 for MT reasons.	MT Column 1
AT applies to entire entry	AT Column 1

REPORTING REQUIREMENTS See §743.1 of the EAR for reporting requirements for exports under License Exceptions, and Validated End-User authorizations

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

SPECIAL CONDITIONS FOR STA

STA: License Exception STA may not be used to ship or transmit any technology in this entry to any of the destinations listed in Country Group A:6 (See Supplement No. 1 to part 740 of the EAR).

LIST OF ITEMS CONTROLLED

Related Controls: (1) See also 9E101 and 1E002.f (for controls on ''technology'' for the repair of controlled structures, laminates or materials). (2) ''Technology'' required for the ''development'' of equipment described in ECCNs 9A005 to 9A011 or ''software'' described in ECCNs 9D103 and 9D105 is ''subject to the ITAR.''

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading

9E002 "Technology" according to the General Technology Note for the "production" of "equipment" controlled by ECCN 9A001.b, 9A004 or 9B (except for ECCNs 9B117, 9B604, 9B610, 9B619, 9B990, and 9B991).

LICENSE REQUIREMENTS

Reason for Control: NS, MT, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 1
MT applies to ''technology'' for equipment controlled by 9B001, 9B002, 9B003, 9B004, 9B005, 9B007, 9B105, 9B106, 9B115, or 9B116 for MT reasons.	MT Column 1
AT applies to entire entry	AT Column 1

REPORTING REQUIREMENTS See §743.1 of the EAR for reporting requirements for exports under License Exceptions, and Validated End-User authorizations

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

SPECIAL CONDITIONS FOR STA

STA: License Exception STA may not be used to ship or transmit any technology in this entry to any of the destinations listed in Country Group A:6 (See Supplement No. 1 to part 740 of the EAR).

LIST OF ITEMS CONTROLLED

Related Controls: (1) See also 9E102. (2) See also 1E002.f for ''technology'' for the repair of controlled structures, laminates or materials. (3) ''Technology'' that is required for the ''production'' of equipment described in ECCNs 9A005 to 9A011 is ''subject to the ITAR.''

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading.

9E003 Other "technology" as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, SI, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 1
SI applies to 9E003.a.1 through a.8,.h, .i, and .k. See §742.14 of the EAR for additional information.	
AT applies to entire entry	AT Column 1

REPORTING REQUIREMENTS See §743.1 of the EAR for reporting requirements for exports under License Exceptions, and Validated End-User authorizations

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A
TSR: N/A
SPECIAL CONDITIONS FOR STA
STA: License Exception STA may not be used to ship or transmit any technology in 9E003.a.1, 9E003.a.2 to a.5, 9E003.a.8, or 9E003.h to any of the destinations listed in Country Group A:6 (See Supplement No. 1 to part 740 of the EAR).
LIST OF ITEMS CONTROLLED
Related Controls: (1) Hot section ''technology'' specifically designed, modified, or equipped for military uses or purposes, or developed principally with U.S. Department of Defense funding, is ''subject to the ITAR'' (see 22 CFR parts 120 through 130). (2) ''Technology'' is subject to the EAR when actually applied to a commercial ''aircraft'' engine program. Exporters may seek to establish commercial application either on a case-by-case basis through submission of documentation demonstrating application to a commercial program in requesting an export license from the Department Commerce in respect to a specific export, or in the case of use for broad categories of ''aircraft'', engines, ''parts'' or ''components,'' a commodity jurisdiction determination from the Department of State.
Related Definitions: N/A
Items: a. ''Technology'' ''required'' for the ''development'' or ''production'' of any of the following gas turbine engine ''parts,'' ''components'' or systems:

a.1. Gas turbine blades, vanes or ''tip shrouds'', made from directionally solidified (DS) or single crystal (SC) alloys and having (in the 001 Miller Index Direction) a stress-rupture life exceeding 400 hours at 1,273 K (1,000 °C) at a stress of 200 MPa, based on the average property values;

a.2. Combustors having any of the following:

a.2.a. Thermally decoupled liners designed to operate at 'combustor exit temperature' exceeding 1,883K (1,610 °C);

a.2.b. Non-metallic liners;

a.2.c. Non-metallic shells; or

a.2.d. Liners designed to operate at 'combustor exit temperature' exceeding 1,883K (1,610 °C) and having holes that meet the parameters specified by 9E003.c;

Note: The ''required'' ''technology'' for holes in 9E003.a.2 is limited to the derivation of the geometry and location of the holes.

Technical Note: 'Combustor exit temperature' is the bulk average gas path total (stagnation) temperature between the combustor exit plane and the leading edge of the turbine inlet guide vane (i.e., measured at engine station T40 as defined in SAE ARP 755A) when the engine is running in a 'steady state mode' of operation at the certificated maximum continuous operating temperature.

N.B.: See 9E003.c for ''technology'' ''required'' for manufacturing cooling holes.

a.3. ''Parts'' or ''components,'' that are any of the following:

a.3.a. Manufactured from organic ''composite'' materials designed to operate above 588 K (315 °C);

a.3.b. Manufactured from any of the following:

a.3.b.1. Metal ''matrix'' ''composites'' reinforced by any of the following:

a.3.b.1.a. Materials controlled by 1C007;

a.3.b.1.b. ''Fibrous or filamentary materials'' specified by 1C010; *or*

a.3.b.1.c. Aluminides specified by 1C002.a; *or*

a.3.b.2. Ceramic ''matrix'' ''composites'' specified by 1C007; *or*

a.3.c. Stators, vanes, blades, tip seals (shrouds), rotating blings, rotating blisks or 'splitter ducts', that are all of the following:

a.3.c.1. Not specified in 9E003.a.3.a;

a.3.c.2. Designed for compressors or fans; *and*

a.3.c.3. Manufactured from material controlled by 1C010.e with resins controlled by 1C008;

Technical Note: A 'splitter duct' performs the initial separation of the air-mass flow between the bypass and core sections of the engine.

a.4. Uncooled turbine blades, vanes or ''tip shrouds'' designed to operate at a 'gas path temperature' of 1,373 K (1,100 °C) or more;

a.5. Cooled turbine blades, vanes or ''tip-shrouds'', other than those described in 9E003.a.1, designed to operate at a 'gas path temperature' of 1,693 K (1,420 °C) or more;

Technical Notes: 1. 'Gas path temperature' is the bulk average gas path total (stagnation) temperature at the leading edge plane of the turbine component when the engine is running in a 'steady state mode' of operation at the certificated or specified maximum continuous operating temperature.

2. The term 'steady state mode' defines engine operation conditions, where the engine parameters, such as thrust/power, rpm and others, have no appreciable fluctuations, when the ambient air temperature and pressure at the engine inlet are constant.

a.6. Airfoil-to-disk blade combinations using solid state joining;

a.7. Gas turbine engine ''parts'' or ''components'' using ''diffusion bonding'' ''technology'' controlled by 2E003.b;

a.8. ' Damage tolerant' gas turbine engine rotor ''parts'' or ''components'' using powder metallurgy materials controlled by 1C002.b;*or*

Technical Note: ' Damage tolerant' ''parts'' and ''components'' are designed using methodology and substantiation to predict and limit crack growth.

a.9. [Reserved]

N.B.: For ''FADEC systems'', see 9E003.h.

a.10. [Reserved]

N.B.: For adjustable flow path geometry, see 9E003.i.

a.11. Hollow fan blades;

b. ''Technology'' ''required'' for the ''development'' or ''production'' of any of the following:

b.1. Wind tunnel aero-models equipped with non-intrusive sensors capable of transmitting data from the sensors to the data acquisition system; or

b.2. ''Composite'' propeller blades or propfans, capable of absorbing more than 2,000 kW at flight speeds exceeding Mach 0.55;

c. ''Technology'' ''required'' for manufacturing cooling holes, in gas turbine engine ''parts'' or ''components'' incorporating any of the ''technologies'' specified by 9E003.a.1, 9E003.a.2 or 9E003.a.5, and having any of the following:

c.1. Having all of the following:

c.1.a. Minimum 'cross-sectional area' less than 0.45 mm^2;

c.1.b. 'Hole shape ratio' greater than 4.52; *and*

c.1.c. 'Incidence angle' equal to or less than 25°; *or*

c.2. Having all of the following:

c.2.a. Minimum 'cross-sectional area' less than 0.12 mm^2;

c.2.b. 'Hole shape ratio' greater than 5.65; *and*

c.2.c. 'Incidence angle' more than 25°;

Note: 9E003.c does not apply to ''technology'' for manufacturing constant radius cylindrical holes that are straight through and enter and exit on the external surfaces of the component.

Technical Notes: 1. For the purposes of 9E003.c, the 'cross-sectional area' is the area of the hole in the plane perpendicular to the hole axis.

2. For the purposes of 9E003.c, 'hole shape ratio' is the nominal length of the axis of the hole divided by the square root of its minimum 'cross-sectional area'.

3. For the purposes of 9E003.c, 'incidence angle' is the acute angle measured between the plane tangential to the airfoil surface and the hole axis at the point where the hole axis enters the airfoil surface.

4. Techniques for manufacturing holes in 9E003.c include ''laser'', water jet, Electro-Chemical Machining (ECM) or Electrical Discharge Machining (EDM) methods.

d. ''Technology'' ''required'' for the ''development'' or ''production'' of helicopter power transfer systems or tilt rotor or tilt wing ''aircraft'' power transfer systems;

e. ''Technology'' for the ''development'' or ''production'' of reciprocating diesel engine ground vehicle propulsion systems having all of the following:

e.1. 'Box volume' of 1.2 m^3 or less;

e.2. An overall power output of more than 750 kW based on 80/1269/EEC, ISO 2534 or national equivalents; *and*

e.3. Power density of more than 700 kW/m^3 of 'box volume';

Technical Note: 'Box volume' is the product of three perpendicular dimensions measured in the following way:

Length: The length of the crankshaft from front flange to flywheel face;

Width: The widest of any of the following:

a. The outside dimension from valve cover to valve cover;

b. The dimensions of the outside edges of the cylinder heads; or

c. The diameter of the flywheel housing;

Height: The largest of any of the following:

a. The dimension of the crankshaft center-line to the top plane of the valve cover (or cylinder head) plus twice the stroke; or

b. The diameter of the flywheel housing.

f. ''Technology'' ''required'' for the ''production'' of ''specially designed'' ''parts'' or ''components'' for high output diesel engines, as follows:

f.1. ''Technology'' ''required'' for the ''production'' of engine systems having all of the following ''parts'' and ''components'' employing ceramics materials controlled by 1C007:

f.1.a Cylinder liners;

f.1.b. Pistons;

f.1.c. Cylinder heads; *and*

f.1.d. One or more other ''part'' or ''component'' (including exhaust ports, turbochargers, valve guides, valve assemblies or insulated fuel injectors);

f.2. ''Technology'' ''required'' for the ''production'' of turbocharger systems with single-stage compressors and having all of the following:

f.2.a. Operating at pressure ratios of 4:1 or higher;

f.2.b. Mass flow in the range from 30 to 130 kg per minute; *and*

f.2.c. Variable flow area capability within the compressor or turbine sections;

f.3. ''Technology'' ''required'' for the ''production'' of fuel injection systems with a ''specially designed'' multifuel (*e.g.*, diesel or jet fuel) capability covering a viscosity range from diesel fuel (2.5 cSt at 310.8 K (37.8 °C)) down to gasoline fuel (0.5 cSt at 310.8 K (37.8 °C)) and having all of the following:

f.3.a. Injection amount in excess of 230 mm^3 per injection per cylinder; and

f.3.b. Electronic control features ''specially designed'' for switching governor characteristics automatically depending on fuel property to provide the same torque characteristics by using the appropriate sensors;

g. ''Technology'' ''required'' for the development'' or ''production'' of 'high output diesel engines' for solid, gas phase or liquid film (or combinations thereof) cylinder wall lubrication and permitting operation to temperatures exceeding 723 K (450 °C), measured on the cylinder wall at the top limit of travel of the top ring of the piston;

Technical Note: 'High output diesel engines' are diesel engines with a specified brake mean effective pressure of 1.8 MPa or more at a speed of 2,300 r.p.m., provided the rated speed is 2,300 r.p.m. or more.

h. ''Technology'' for gas turbine engine ''FADEC systems'' as follows:

h.1. ''Development'' ''technology'' for deriving the functional requirements for the ''parts'' or ''components'' necessary for the ''FADEC system'' to regulate engine thrust or shaft power (e.g., feedback sensor time constants and accuracies, fuel valve slew rate);

h.2. ''Development'' or ''production'' ''technology'' for control and diagnostic ''parts'' or ''components'' unique to the ''FADEC system'' and used to regulate engine thrust or shaft power;

h.3. ''Development'' ''technology'' for the control law algorithms, including ''source code'', unique to the ''FADEC system'' and used to regulate engine thrust or shaft power;

Note: 9E003.h does not apply to technical data related to engine-''aircraft'' integration required by civil aviation authorities of one or more Wassenaar Arrangement Participating States (See Supplement No. 1 to part 743 of the EAR) to be published for general airline use (e.g., installation manuals, operating instructions, instructions for continued airworthiness) or interface functions (e.g., input/output processing, airframe thrust or shaft power demand).

i. ''Technology'' for adjustable flow path systems designed to maintain engine stability for gas generator turbines, fan or power turbines, or propelling nozzles, as follows:

i.1. ''Development'' ''technology'' for deriving the functional requirements for the ''parts'' or ''components'' that maintain engine stability;

i.2. ''Development'' or ''production'' ''technology'' for ''parts'' or ''components'' unique to the adjustable flow path system and that maintain engine stability;

i.3. ''Development'' ''technology'' for the control law algorithms, including ''source code'', unique to the adjustable flow path system and that maintain engine stability;

Note: 9E003.i does not apply to ''development'' or ''production'' ''technology'' for any of the following:

a. Inlet guide vanes;

b. Variable pitch fans or prop-fans;

c. Variable compressor vanes;

d. Compressor bleed valves; or

e. Adjustable flow path geometry for reverse thrust.

j. ''Technology'' ''required'' for the ''development'' of wing-folding systems designed for fixed-wing ''aircraft'' powered by gas turbine engines.

N.B.: For ''technology'' ''required'' for the ''development'' of wing-folding systems designed for fixed-wing ''aircraft'' specified in USML Category VIII (a), see USML Category VIII (i).

k. ''Technology'' not otherwise controlled in 9E003.a.1 through a.8, a.10, and .h and used in the ''development'', ''production'', or overhaul of hot section ''parts'' or ''components'' of civil derivatives of military engines controlled on the U.S. Munitions List.

9E018 "Technology" for the "development," "production," or "use" of equipment controlled by 9A018.

(a) See ECCN 9E610 for ''technology'' related to aircraft, refuelers, ground equipment, parachutes, harnesses, instrument flight trainers and ''parts'', ''accessories'' and ''attachments'' for the forgoing that, immediately prior to October 15, 2013, were classified under 9A018.a.1, .a.3, .c, .d, .e, or .f.

(b) See ECCN 9E619 for ''technology'' related to military trainer aircraft turbo prop engines and ''parts'' and ''components'' therefor that, immediately prior to October 15, 2013, were classified under ECCN 9A018.a.2 or .a.3.

(c) Technology related to certain armored ground transport vehicles that prior to January 6, 2014 were classified under ECCN 9A018.b is EAR99 (See 0E606).

9E101 "Technology" according to the General Technology Note for the "development" or "production" of commodities or "software" controlled by ECCN 9A012 (applies only to "production" "technology" for MT-controlled items in 9A012), 9A101 (except for items in 9A101.b that are "subject to the ITAR", see 22 CFR part 121), 9A106.d or .e, 9A110 (for items that are "specially designed" for non-military unmanned air vehicles controlled by 9A012), 9C110, 9D101, or 9D104.

LICENSE REQUIREMENTS

Reason for Control: MT, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
MT applies to entire entry	MT Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

LIST OF ITEMS CONTROLLED

Related Controls: ''Technology'' that is required for items specified in ECCNs 9A101.b (except for items that are subject to the EAR), 9A104, 9A105, 9A106.a, .b, and .c, 9A107 to 9A109, 9A110 (for items that are ''specially designed'' for use in missile systems and subsystems), 9A111, 9A115 to 9A119, 9D103, and 9D105 is ''subject to the ITAR'' (see 22 CFR parts 120 through 130).

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading

9E102 "Technology" according to the General Technology Note for the "use" of commodities or "software" controlled by ECCN 9A004 (except for items in 9A004 that are "subject to the ITAR", see 22

CFR part 121), 9A012, 9A101 (except for items in 9A101.b that are "subject to the ITAR", see 22 CFR part 121), 9A106.d or .e, 9A110 (for items that are "specially designed" for non-military unmanned air vehicles controlled by 9A012), 9B105, 9B106, 9B115, 9B116, 9D101, or 9D104.

LICENSE REQUIREMENTS

Reason for Control: MT, AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
MT applies to entire entry	MT Column 1
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

LIST OF ITEMS CONTROLLED

Related Controls: (1) For the purpose of this entry, ''use'' ''technology'' is limited to items controlled for MT and their subsystems. (2) ''Technology'' for items specified in ECCNs 9A004 (except for items that are subject to the EAR), 9A005 to 9A011, 9A101.b (except for items that are subject to the EAR), 9A104, 9A105, 9A106.a, .b and .c, 9A107 to 9A109, 9A110 (for items that are ''specially designed'' for use in missile systems and subsystems), 9A111, 9A115 to 9A119, 9D103, and 9D105 is ''subject to the ITAR'' (see 22 CFR part 121).

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading

9E515 "Technology" "required" for the "development," "production," operation, installation, repair, overhaul, or refurbishing of "spacecraft" and related commodities, as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, MT, RS, AT

Control(s)	Country Chart (see Supp. No. 1 to part 738)
NS applies to entire entry except 9E515.y.	NS Column 1
MT applies to technology for items in 9A515.d and 9A515.e.2 controlled for MT reasons.	MT Column 1
RS applies to entire entry except 9E515.y.	RS Column 1
AT applies to entire entry	AT Column 1

LICENSE EXCEPTIONS

CIV: N/A

TSR: N/A

SPECIAL CONDITIONS FOR STA

STA: (1) Paragraph (c)(1) of License Exception STA (§740.20(c)(1) of the EAR) may not be used for 9E515.b, .d or .e. (2) Paragraph (c)(2) of License Exception STA (§740.20(c)(2) of the EAR) may not be used for any ''technology'' in 9E515.

LIST OF ITEMS CONTROLLED

Related Controls: Technical data directly related to articles enumerated in USML Category XV are subject to the control of USML paragraph XV(f). See also ECCNs 3E001, 3E003, 6E001, and 6E002 for specific ''space-qualified'' items. See 9E001 and 9E002 for technology for the International Space Station and ''parts,'' ''components,'' ''accessories,'' and ''attachments'' ''specially designed'' therefor. See USML category XV(f) for controls on technical data and defense services related to launch vehicle integration.

Related Definitions: N/A

Items:

a. ''Technology'' ''required'' for the ''development,'' ''production,'' installation, repair (including on-orbit anomaly resolution and analysis beyond established procedures), overhaul or refurbishing of commodities controlled by ECCN 9A515 (except 9A515.b, .d, or .e), 9B515, or ''software'' controlled by 9D515.a.

b. ''Technology'' ''required'' for the ''development,'' ''production,'' failure analysis or anomaly resolution of software controlled by ECCN 9D515.b.

c. [Reserved]

d. ''Technology'' ''required'' for the ''development,'' ''production,'' operation, failure analysis or anomaly resolution of commodities controlled by ECCN 9A515.d.

e. ''Technology'' ''required'' for the ''development,'' ''production,'' failure analysis or anomaly resolution of commodities controlled by ECCN 9A515.e.

Note 1: [Reserved]

Note 2: Activities and technology/technical data directly related to or required for the spaceflight (e.g., sub-orbital, orbital, lunar, interplanetary, or otherwise beyond Earth orbit) passenger or participant experience, regardless of whether the passenger or participant experience is for space tourism, scientific or commercial research, commercial manufacturing/production activities, educational, media, or commercial transportation purposes, are not subject to the ITAR or the EAR. Such activities and technology/technical data include those directly related to or required for:

(i) ''spacecraft'' access, ingress, and egress, including the operation of all ''spacecraft'' doors, hatches, and airlocks;

(ii) physiological training (e.g., human-rated centrifuge training or parabolic flights, pressure suit or spacesuit training/operation);

(iii) medical evaluation or assessment of the spaceflight passenger or participant;

(iv) training for and operation by the passenger or participant of health and safety related hardware (e.g., seating, environmental control and life support, hygiene facilities, food

preparation, exercise equipment, fire suppression, communications equipment, safety-related clothing or headgear) or emergency procedures;

(v) viewing of the interior and exterior of the spacecraft or terrestrial mock-ups;

(vi) observing ''spacecraft'' operations (e.g., pre-flight checks, landing, in-flight status);

(vii) training in ''spacecraft'' or terrestrial mock-ups for connecting to or operating passenger or participant equipment used for purposes other than operating the ''spacecraft''; or

(viii) donning, wearing or utilizing the passenger's or participant's flight suit, pressure suit or spacesuit, and personal equipment.

f. through x. [Reserved]

y. Specific ''technology'' ''required'' for the ''production,'' ''development,'' operation, installation, maintenance, repair, overhaul, or refurbishing of commodities or software enumerated in ECCN 9A515.y or 9D515.y.

9E604 "Technology" "required" for the "development," "production," operation, installation, maintenance, repair, overhaul, or refurbishing of commodities controlled by ECCN 9A604 or 9B604, or "software" controlled by ECCN 9D604 (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, RS, MT, AT, UN

Control(s)	Country chart (See Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 1
RS applies to entire entry	RS Column 1
MT applies to "technology," as described in paragraph .a of this entry, for commodities and "software" controlled for MT reasons in ECCN 9A604, 9B604 or 9D604.	MT Column 1
AT applies to entire entry	AT Column 1
UN applies to entire entry	See §746.1(b) for UN controls

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

SPECIAL CONDITIONS FOR STA

STA: Paragraph (c)(2) of License Exception STA (§740.20(c)(2) of the EAR) may not be used for any item in this ECCN 9E604.

LIST OF ITEMS CONTROLLED

Related Controls: (1) Technical data directly related to articles enumerated or otherwise described in USML Category IV is controlled under USML Category IV(i). (2) See also ECCNs 9E002, 9E101, and 9E102 for controls on ''technology'' for the ''development,'' ''production,'' and ''use'' of missiles and related items controlled on the CCL.

Related Definitions: N/A

Items: a. ''Technology'' ''required'' for the ''development,'' ''production,'' operation, installation, maintenance, repair, overhaul, or refurbishing of commodities controlled by ECCN 9A604 or 9B604, or ''software'' controlled by ECCN 9D604.

b. [Reserved]

9E610 Technology "required" for the "development," "production," operation, installation, maintenance, repair, overhaul, or refurbishing of military aircraft and related commodities controlled by 9A610, equipment controlled by 9B610, materials controlled by 9C610, or software controlled by 9D610 (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, RS, MT, AT, UN

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry except 9E610.y.	NS Column 1
RS applies to entire entry except 9E610.y.	RS Column 1
MT applies to "technology" "required" for the "development," "production," operation, installation, maintenance, repair, overhaul, or refurbishing of commodities or software controlled for MT reasons in 9A610, 9B610, or 9D610 for MT reasons.	MT Column 1
AT applies to entire entry	AT Column 1
UN applies to entire entry except 9E610.y.	See §746.1(b) for UN controls

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

SPECIAL CONDITIONS FOR STA

STA: (1) Paragraph (c)(1) of License Exception STA (§740.20(c)(1) of the EAR) may not be used for 9E610.b. (2) Paragraph (c)(2) of License Exception STA (§740.20(c)(2) of the EAR) may not be used for any technology in 9E610.

LIST OF ITEMS CONTROLLED

Related Controls: Technical data directly related to articles enumerated or otherwise described in USML Category VIII are subject to the control of USML paragraph VIII(i).

Related Definitions: N/A

Items: a. ''Technology'' (other than technology controlled by paragraphs .b or .y of this entry) ''required'' for the ''development,'' ''production,'' operation, installation, maintenance, repair, overhaul, or refurbishing of commodities or software controlled by ECCN 9A610, 9B610, 9C610, or 9D610.

Note: ''Build-to-print technology'' ''required'' for the ''production'' of items described in paragraphs b.1 through b.15 of this entry is classified under 9E610.a.

b. ''Technology'' (other than ''build-to-print technology'') ''required'' for the ''development'' or ''production'' of any of the following:

b.1. Static structural members;

b.2. Exterior skins, removable fairings, non-removable fairings, radomes, access doors and panels, and in-flight opening doors;

b.3. Control surfaces, leading edges, trailing edges, and leading edge flap seals;

b.4. Leading edge flap actuation system commodities (i.e., power drive units, rotary geared actuators, torque tubes, asymmetry brakes, position sensors, and angle gearboxes) ''specially designed'' for fighter, attack, or bomber aircraft controlled in USML Category VIII;

b.5. Engine inlets and ducting;

b.6. Fatigue life monitoring systems ''specially designed'' to relate actual usage to the analytical or design spectrum and to compute amount of fatigue life ''specially designed'' for aircraft controlled by either USML subcategory VIII(a) or ECCN 9A610.a, except for Military Commercial Derivative Aircraft;

b.7. Landing gear, and ''parts'' and ''components'' ''specially designed'' therefor, ''specially designed'' for use in aircraft weighing more than 21,000 pounds controlled by either USML subcategory VIII(a) or ECCN 9A610.a, except for Military Commercial Derivative Aircraft;

b.8. Conformal fuel tanks and ''parts'' and ''components'' ''specially designed'' therefor;

b.9. Electrical ''equipment,'' ''parts,'' and ''components'' ''specially designed'' for electro-magnetic interference (EMI)—i.e., conducted emissions, radiated emissions, conducted susceptibility and radiated susceptibility—protection of aircraft that conform to the requirements of MIL–STD–461;

b.10. HOTAS (Hand-on Throttle and Stick) controls, HOCAS (Hands on Collective and Stick), Active Inceptor Systems (i.e., a combination of Active Side Stick Control Assembly, Active Throttle Quadrant Assembly, and Inceptor Control Unit), rudder pedal assemblies for digital flight control systems, and parts and components ''specially designed'' therefor;

b.11. Integrated Vehicle Health Management Systems (IVHMS), Condition Based Maintenance (CBM) Systems, and Flight Data Monitoring (FDM) systems;

b.12. Equipment ''specially designed'' for system prognostic and health management of aircraft;

b.13. Active Vibration Control Systems;

b.14. Self-sealing fuel bladders ''specially designed'' to pass a .50 caliber or larger gunfire test (MIL–DTL–5578, MIL–DTL–27422); or

b.15. Technology ''required'' for the ''development'' or ''production'' of ''parts'' or ''components'' controlled in 9A610.x and ''specially designed'' for damage or failure-adaptive flight control systems controlled in Category VIII(h)(7) of the USML.

c. through x. [Reserved]

y. Specific ''technology'' ''required'' for the ''production,'' ''development,'' operation, installation, maintenance, repair, overhaul, or refurbishing of commodities or software enumerated in ECCN 9A610.y or 9D610.y.

9E619 "Technology" "required" for the "development," "production," operation, installation, maintenance, repair, overhaul, or refurbishing of military gas turbine engines and related commodities controlled by 9A619, equipment controlled by 9B619, materials controlled by 9C619, or software controlled by 9D619 (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, RS, AT, UN

Control(s)	Country Chart (See Supp. No. 1 to part 738)
NS applies to entire entry except 9E619.y.	NS Column 1
RS applies to entire entry except 9E619.y.	RS Column 1
AT applies to entire entry	AT Column 1
UN applies to entire entry except 9E619.y.	See §746.1(b) for UN controls

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

SPECIAL CONDITIONS FOR STA

STA: (1) Paragraph (c)(1) of License Exception STA (§740.20(c)(1) of the EAR) may not be used for 9E619.b. or .c. (2) Paragraph (c)(2) of License Exception STA (§740.20(c)(2) of the EAR) may not be used for any technology in ECCN 9E619.

LIST OF ITEMS CONTROLLED

Related Controls: Technical data directly related to articles enumerated or otherwise described in USML Category XIX are subject to the control of USML Category XIX(g).

Related Definitions: N/A

Items: a. ''Technology'' (other than ''technology'' controlled by paragraphs .b and .c of this entry) ''required'' for the ''development,'' ''production,'' operation, installation, maintenance, repair, overhaul, or refurbishment of items controlled by ECCN 9A619 (except 9A619.y), ECCN 9B619 (except 9B619.y), ECCN 9C619, or ECCN 9D619 (except 9D619.y).

Note: ''Build-to-print technology'' ''required'' for the ''production'' of items described in paragraphs b.1 through b.10 of this entry is classified under 9E619.a.

b. ''Technology'' (other than ''build-to-print technology'') ''required'' for the ''development'' or ''production'' of any of the following:

b.1. Front, turbine center, and exhaust frames;

b.2. Low pressure compressor (i.e., fan) ''components'' and ''parts'' as follows: nose cones and casings;

b.3. High pressure compressor ''components'' and ''parts'' as follows: casings;

b.4. Combustor ''components'' and ''parts'' as follows: casings, fuel nozzles, swirlers, swirler cups, deswirlers, valve injectors, and igniters;

b.5. High pressure turbine ''components'' and ''parts'' as follows: casings;

b.6. Low pressure turbine ''components'' and ''parts'' as follows: casings;

b.7. Augmentor ''components'' and ''parts'' as follows: casings, flame holders, spray bars, pilot burners, augmentor fuel controls, flaps (external, convergent, and divergent), guide and syncronization rings, and flame detectors and sensors;

b.8. Mechanical ''components'' and ''parts'' as follows: fuel metering units and fuel pump metering units, valves (fuel throttle, main metering, oil flow management), heat exchangers (air/air, fuel/air, fuel/oil), debris monitoring (inlet and exhaust), seals (carbon, labyrinth, brush, balance piston, and ''knife-edge''), permanent magnetic alternator and generator, eddy current sensors;

b.9. Torquemeter assembly (i.e., housing, shaft, reference shaft, and sleeve); or

b.10. Materials controlled by ECCN 9C619.b.

c. ''Technology'' ''required'' for the ''development'' or ''production'' of any of the following:

c.1. Low pressure compressor (i.e., fan) ''components'' and ''parts'' as follows: blades, vanes, spools, shrouds, blisks, shafts and disks;

c.2. High pressure compressor ''components'' and ''parts'' as follows: blades, vanes, spools, shrouds, blisks, shafts, disks, and impellers;

c.3. Combustor ''components'' and ''parts'' as follows: diffusers, liners, chambers, cowlings, domes and shells;

c.4. High pressure turbine ''components'' and ''parts'' as follows: shafts and disks, blades, vanes, nozzles, tip shrouds;

c.5. Low pressure turbine ''components'' and ''parts'' as follows: shafts and disks, blades, vanes, nozzles, tip shrouds;

c.6. Digital engine control systems (e.g., Full Authority Digital Engine Controls (FADEC) and Digital Electronic Engine Controls (DEEC)) ''specially designed'' for gas turbine engines controlled in this ECCN; or

c.7. Engine monitoring systems (i.e., prognostics, diagnostics, and health) ''specially designed'' for gas turbine engines and components controlled in this ECCN.

d. through x. [Reserved]

y. Specific ''technology'' ''required'' for the ''development,'' ''production,'' operation, installation, maintenance, repair, overhaul, or refurbishment of commodities controlled by 9A619.y or 9B619.y, or ''software'' controlled by ECCN 9D619.y.

9E620 Technology "required" for cryogenic and "superconductive" equipment, as follows (see List of Items Controlled).

LICENSE REQUIREMENTS

Reason for Control: NS, RS, AT, UN

Control(s)	Country chart (see Supp. No. 1 to part 738)
NS applies to entire entry	NS Column 1
RS applies to entire entry	RS Column 1
AT applies to entire entry	AT Column 1
UN applies to entire entry	See §746.1(b) for UN controls

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

SPECIAL CONDITIONS FOR STA

STA: Paragraph (c)(2) of License Exception STA (§740.20(c)(2) of the EAR) may not be used for any technology in 9E620.

LIST OF ITEMS CONTROLLED

Related Controls: Technical data directly related to articles enumerated on USML are subject to the control of that USML category.

Related Definitions: N/A

Items: ''Technology'' ''required'' for the ''development,'' ''production,'' operation, installation, maintenance, repair, overhaul, or refurbishing of commodities or software controlled by ECCN 9A620, 9B620 or 9D620.

9E990 "Technology", n.e.s., for the "development" or "production" or "use" of equipment controlled by 9A990 or 9B990.

LICENSE REQUIREMENTS

Reason for Control: AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
AT applies to "technology" for equipment under 9A990 and 9B990 except 9A990.a.	AT Column 1
AT applies to "technology" for equipment under 9A990.a only.	AT Column 2

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)

CIV: N/A

TSR: N/A

LIST OF ITEMS CONTROLLED

Related Controls: N/A

Related Definitions: N/A

Items: The list of items controlled is contained in the ECCN heading

9E991 "Technology", for the "development", "production" or "use" of equipment controlled by 9A991 or 9B991.

LICENSE REQUIREMENTS

Reason for Control: AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
AT applies to entire entry	AT Column 1

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
CIV: N/A
TSR: N/A
LIST OF ITEMS CONTROLLED
Related Controls: N/A
Related Definitions: N/A
Items: The list of items controlled is contained in the ECCN heading

9E993 Other "technology", not described by 9E003, as follows (see List of Items Controlled).

LICENSE REQUIREMENTS
Reason for Control: AT

Control(s)	Country Chart (See Supp. No. 1 to part 738)
AT applies to entire entry	AT Column 1.

LIST BASED LICENSE EXCEPTIONS (SEE PART 740 FOR A DESCRIPTION OF ALL LICENSE EXCEPTIONS)
CIV: N/A
TSR: N/A
LIST OF ITEMS CONTROLLED
Related Controls: N/A
Related Definitions: N/A
Items: a. Rotor blade tip clearance control systems employing active compensating casing ''technology'' limited to a design and development data base; *or*

b. Gas bearing for turbine engine rotor assemblies.

EAR99 Items subject to the EAR that are not elsewhere specified in this CCL Category or in any other category in the CCL are designated by the number EAR99.

[63 FR 2459, Jan. 15, 1998]

EDITORIAL NOTE: For FEDERAL REGISTER citations affecting supplement no. 1 to part 774, see the List of CFR Sections Affected, which appears in the Finding Aids section of the printed volume and at *www.fdsys.gov*.

SUPPLEMENT NO. 2 TO PART 774—GENERAL TECHNOLOGY AND SOFTWARE NOTES

1. *General Technology Note.* The export of ''technology'' that is ''required'' for the ''development'', ''production'', or ''use'' of items on the Commerce Control List is controlled according to the provisions in each Category.

''Technology'' ''required'' for the ''development'', ''production'', or ''use'' of a controlled product remains controlled even when applicable to a product controlled at a lower level.

License Exception TSU is available for ''technology'' that is the minimum necessary for the installation, operation, maintenance (checking), or repair of those products that are eligible for License Exceptions or that are exported under a license.

N.B.: This does not allow release under a License Exception of the repair ''technology'' controlled by 1E002.e, 1E002.f, 8E002.a, or 8E002.b.

N.B.: The ''minimum necessary'' excludes ''development'' or ''production'' technology and permits ''use'' technology only to the extent ''required'' to ensure safe and efficient use of the product. Individual ECCNs may further restrict export of ''minimum necessary'' information.

2. *General Software Note.* License Exception TSU (mass market software) (see §740.13 of the EAR) is available to all destinations, except countries in Country Group E:1 of Supplement No. 1 to part 740 of the EAR, for release of ''software'' which is any of the following:

1. Generally available to the public by being:

a. Sold from stock at retail selling points, without restriction, by means of:

1. Over the counter transactions;
2. Mail order transactions;
3. Electronic transactions; *or*
4. Telephone call transactions; *and*

b. Designed for installation by the user without further substantial support by the supplier.

2. [Reserved] See §734.3(b)(3) for ''publicly available technology and software.''

3. The minimum necessary ''object code'' for the installation, operation, maintenance (checking) or repair of those items whose export has been authorized.

3. *General ''Information Security'' Note.* ''Information security'' items or functions should be considered against the provisions in Category 5–Part 2, even if they are components, ''software'' or functions of other items.

NOTE: Minimum necessary ''object code'' does not enhance or improve the performance of an item or provide new features or functionality.

NOTE: The General Software Note does not apply to ''software'' controlled by Category 5, part 2 ''Information Security''). For ''software'' controlled by Category 5, part 2, see Supplement No. 1 to part 774, Category 5, part 2, Note 3—Cryptography Note.

[69 FR 46087, July 30, 2004, as amended at 78 FR 37394, June 20, 2013; 79 FR 45307, Aug. 4, 2014; 81 FR 64691, Sept. 20, 2016]

SUPPLEMENT NO. 3 TO PART 774—STATEMENTS OF UNDERSTANDING

(a) *Statement of Understanding—medical equipment.* Commodities that are '''specially designed'' for medical end-use'' that ''incorporate'' commodities or software on the Commerce Control List (Supplement No. 1 to part 774 of the EAR) that do not have a reason for control of Nuclear Nonproliferation (NP), Missile Technology (MT), or Chemical & Biological Weapons (CB) are designated by the number EAR99 (*i.e.*, are not elsewhere specified on the Commerce Control List).

NOTES TO PARAGRAPH (a): (1) ''Specially designed for medical end-use'' means designed for medical treatment or the practice of medicine (does not include medical research).

(2) Commodities or software are considered ''incorporated'' if the commodity or software is: Essential to the functioning of the medical equipment; customarily included in the sale of the medical equipment; and exported or reexported with the medical equipment.

(3) Except for such software that is made publicly available consistent with §734.3(b)(3) of the EAR, commodities and software ''specially designed for medical end-use'' remain subject to the EAR.

(4) *See also* §770.2(b) interpretation 2, for other types of equipment that incorporate items on the Commerce Control List that are subject to the EAR.

(5) For computers used with medical equipment, *see also* ECCN 4A003 note 2 regarding the ''principal element'' rule.

(6) For commodities and software ''specially designed'' for medical end-use that incorporate an encryption or other ''information security'' item subject to the EAR, *see also* Note 1 to Category 5, Part II of the Commerce Control List.

(b) *Statement of Understanding—Source Code.* For the purpose of national security controlled items, ''source code'' items are controlled either by ''software'' or by ''software'' and ''technology'' controls, except when such ''source code'' items are explicitly decontrolled.

(c) *Category 5—Part 2—Note 4 Statement of Understanding.* All items previously described by Notes (b), (c) and (h) to 5A002 are now described by Note 4 to Category 5—Part 2. Note (h) to 5A002 prior to June 25, 2010 stated that the following was not controlled by 5A002:

Equipment ''specially designed'' for the servicing of portable or mobile radiotelephones and similar client wireless devices that meet all the provisions of the Cryptography Note (Note 3 in Category 5, Part 2), where the servicing equipment meets all of the following:

(1) The cryptographic functionality of the servicing equipment cannot easily be changed by the user of the equipment;

(2) The servicing equipment is designed for installation without further substantial support by the supplier; *and*

(3) The servicing equipment cannot change the cryptographic functionality of the device being serviced.

(d) *Statement of Understanding—Used Goods.* The specifications in the Commerce Control List apply equally to new or used goods. In the case of used goods, an evaluation by the Bureau of Industry and Security may be carried out in order to assess whether the goods are capable of meeting the relevant specifications.

[75 FR 36502, June 25, 2010, as amended at 76 FR 29632, May 20, 2011]

SUPPLEMENT NO. 4 TO PART 774—COMMERCE CONTROL LIST ORDER OF REVIEW

(a) As described in EAR §734.3, the EAR govern only items ''subject to the EAR,'' e.g., items not subject to the exclusive jurisdiction of another agency. Thus, for example, if an item is described in the U.S. Munitions List (USML) (22 CFR Part 121) of the International Traffic in Arms Regulations (ITAR) (22 CFR Parts 120–130), including one of its catch-all paragraphs, then the item is a ''defense article'' subject to the ITAR and there is no need to review the CCL with respect to whether it describes the item. See 22 CFR §120.6 (''Defense article means any item or technical data designated in §121.1 of the ITAR. The policy described in §120.3 is applicable to designations of additional items''). If an item is not described on the USML and is otherwise ''subject to the EAR,'' then work through each of the following steps to determine where the item is covered by the CCL or, if it is not covered by the CCL, and is therefore designated as EAR99.

(1) Step 1. To classify an item ''subject to the EAR'' against the CCL, review the general characteristics of the item. This will usually guide you to the appropriate category (0 through 9) on the CCL.

(2) Step 2. Once the potentially applicable CCL categories are identified, determine which product group within the CCL category or categories—i.e., A, B, C, D, or E—is applicable to the item.

(3) Step 3. The ''600 series'' describes military items that were once subject to the ITAR. The 9x515 ECCNs describe ''spacecraft,'' related items, and some radiation-hardened microelectronic circuits that were once subject to the ITAR under USML Category XV. Just as the ITAR effectively trumps the EAR, items described in a 9x515 ECCN or ''600 series'' ECCN trump other ECCNs on the CCL. Thus, the next step in

conducting a classification analysis of an item ''subject to the EAR'' is to determine whether it is described in a 9x515 ECCN or ''600 series'' ECCN paragraph other than a ''catch-all'' paragraph such as a ''.x'' paragraph that controls unspecified ''parts'' and ''components'' ''specially designed'' for items in that ECCN or the corresponding USML paragraph. If so, the item is classified under that 9x515 ECCN or ''600 series'' ECCN paragraph even if it would also be described in another ECCN.

(4) Step 4. If the item is not described in a 9x515 ECCN or ''600 series'' ECCN, then determine whether the item is classified under a 9x515 ECCN or ''600 series'' catch-all paragraph, i.e., one that controls non-specific ''parts,'' ''components,'' ''accessories,'' and ''attachments'' ''specially designed'' for items in that ECCN or the corresponding USML paragraph. Such items are generally in the ''.x'' paragraph of ECCN 9A515 or a ''600 series'' ECCN.

(i) Step 4.a. Determine whether the item would meet the criteria of either paragraphs (a)(1) or (a)(2) of the ''specially designed'' definition in §772.1 of the EAR. (These are informally known as the ''catch'' paragraphs.) If not applicable, then the item is not within the scope of the ECCN paragraph that contains a ''specially designed'' control parameter. Skip to Step 5.

(ii) Step 4.b. If the item meets the criteria of either paragraph (a)(1) or (a)(2) of the ''specially designed'' definition, then determine whether any of the provisions of paragraph (b) of the ''specially designed'' definition would apply. (These are informally known as the ''release'' provisions.) If so, then the item is not within the scope of the ECCN paragraph that contains a ''specially designed'' control parameter.

NOTE TO PARAGRAPH (a)(4): The emphasis on the word ''control'' in Steps 4.a and 4.b is deliberate. Some ECCNs use ''specially designed'' as a de-control parameter. If an item would *not* be classified under a particular ECCN because it falls within the scope of either subparagraph (a)(1) or (a)(2) of the ''specially designed'' definition, then there is no need to analyze whether any element of paragraph (b) of the definition would apply to the item. One needs only review the ''release'' provisions in paragraph (b) of the ''specially designed'' definition if paragraph (a) of the ''specially designed'' definition applies to the item in a ''control'' paragraph of an ECCN that uses the term ''specially designed.''

(5) Step 5. If an item is not classified by a ''600 series'' or in a 9x515 ECCN, then starting from the beginning of the product group analyze each ECCN to determine whether any other ECCN in that product group describes the item. If any ECCN uses the term ''specially designed,'' see Steps 4.a and 4.b above in paragraphs (a)(4)(i) and (a)(4)(ii) respectively. If the item is described in one of these ECCNs, then the item is classified under that ECCN.

(6) Step 6. If the item is not described under any ECCN of any category of the CCL, then the item is designated as EAR99. EAR99 items may require a license if destined for a prohibited or restricted end user, end use or destination. See paragraphs (g) through (n) of §732.3 ''Steps Regarding the Ten General Prohibitions,'' or General Prohibitions Four through Ten of part 736 of the EAR for license requirements other than those imposed by the CCL.

(b) [Reserved]

[78 FR 22735, Apr. 16, 2013, as amended at 79 FR 27443, May 13, 2014; 79 FR 32632, June 5, 2014]

SUPPLEMENT NO. 5 TO PART 774—ITEMS CLASSIFIED UNDER ECCNS 0A521, 0B521, 0C521, 0D521 AND 0E521

The following table lists items subject to the EAR that are not listed elsewhere in the CCL, but which the Department of Commerce, with the concurrence of the Departments of Defense and State, has identified warrant control for export or reexport because the items provide at least a significant military or intelligence advantage to the United States or for foreign policy reasons.

Item descriptor. *Note:* The description must match by model number or a broader descriptor that does not necessarily need to be company specific	Date of initial or subsequent BIS classification (ID = initial date; SD = subsequent date)	Date when the item will be designated EAR99, unless reclassified in another ECCN or the 0Y521 classification is reissued	Item-specific license exception eligibility
0A521. Systems, Equipment and Components			
No. 1 Targets made of or containing lithium ''specially designed'' for the production of tritium by insertion in the core of a nuclear reactor.	August 8, 2016 (ID)	August 8, 2017	License Exception GOV under §740.11(b)(2)(ii) only

Item descriptor. *Note:* The description must match by model number or a broader descriptor that does not necessarily need to be company specific	Date of initial or subsequent BIS classification (ID = initial date; SD = subsequent date)	Date when the item will be designated EAR99, unless reclassified in another ECCN or the 0Y521 classification is reissued	Item-specific license exception eligibility
0B521. Test, Inspection and Production Equipment			
[Reserved]			
0C521. Materials			
No. 1 XBS Epoxy system designed to obfuscate critical technology components against x-ray and terahertz microscopy imaging attempts.	November 16, 2015 (ID)	November 16, 2016	License Exception GOV under §740.11(b)(2)(ii) only
No. 2 [Reserved]	[Reserved]	[Reserved]	[Reserved]
0D521. Software			
[Reserved]			
0E521. Technology			
No. 1 ''Technology'' required for the ''development'' or ''production'' of 0A521 No. 1 items.	August 8, 2016 (ID)	August 8, 2017	License Exception GOV under §740.11(b)(2)(ii) only

[80 FR 70678, Nov. 16, 2015, as amended at 81 FR 52328, Aug. 8, 2016]

SUPPLEMENT NO. 6 TO PART 774—SENSITIVE LIST

NOTE TO SUPPLEMENT NO. 6: *While the items on this list are identified by ECCN rather than by Wassenaar Arrangement numbering, the item descriptions are drawn directly from the Wassenaar Arrangement's Sensitive List. If text accompanies an ECCN below, then the Sensitive List is limited to a subset of items classified under the specific ECCN or has differing parameters.*

(1) Category 1

(i) 1A002.

(ii) 1C001.

(iii) 1C007.c and .d.

(iv) 1C010.c and .d.

(v) 1C012.

(vi) 1D002—''Software'' for the ''development'' of organic ''matrix'', metal ''matrix'', or carbon ''matrix'' laminates or composites controlled under 1A002, 1C007.c, 1C007.d, 1C010.c or 1C010.d.

(vii) 1E001—''Technology'' according to the General Technology Note for the ''development'' or ''production'' of equipment and materials controlled under 1A002, 1C001, 1C007.c, 1C007.d, 1C010.c, 1C010.d, or 1C012.

(viii) 1E002.e and .f.

(2) Category 2

(i) 2D001—''Software,'' other than that controlled by 2D002, specially designed for the ''development'' or ''production'' of equipment as follows:

(A) Machine tools for turning (ECCN 2B001.a) having two or more axes which can be coordinated simultaneously for ''contouring control'' having any of the following:

(1) ''Unidirectional positioning repeatability'' equal to or less (better) than 0.9 μm along one or more linear axis with a travel length less than 1.0 m; *or*

(2) ''Unidirectional positioning repeatability'' equal to or less (better) than 1.1 μm along one or more linear axis with a travel length equal to or greater than 1.0 m;

(B) Machine tools for milling (ECCN 2B001.b) having any of the following:

(1) Three linear axes plus one rotary axis which can be coordinated simultaneously for ''contouring control'' having any of the following:

(a) ''Unidirectional positioning repeatability'' equal to or less (better) than 0.9 μm along one or more linear axis with a travel length less than 1.0 m; *or*

(b) ''Unidirectional positioning repeatability'' equal to or less (better) than 1.1 μm along one or more linear axis with a travel length equal to or greater than 1.0 m;

(2) Specified by 2B001.b.2.a, 2B001.b.2.b or 2B001.b.2.c and having a ''unidirectional positioning repeatability'' equal to or less (better) than 1.1 μm along one or more linear axis; or

(3) A ''unidirectional positioning repeatability'' for jig boring machines equal to or less (better) than 1.1 μm along one or more linear axis;

(C) Electrical discharge machines (EDM) controlled under 2B001.d;

(D) Deep-hole-drilling machines controlled under 2B001.f;

(E) ''Numerically controlled'' or manual machine tools controlled under 2B003.

(ii) 2E001—''Technology'' according to the General Technology Note for the ''development'' of ''software'' specified by 2D001 described in this Supplement or for the ''development'' of equipment as follows:

(A) Machine tools for turning (ECCN 2B001.a) having two or more axes which can be coordinated simultaneously for ''contouring control'' having any of the following:

(1) ''Unidirectional positioning repeatability'' equal to or less (better) than 0.9 μm along one or more linear axis with a travel length less than 1.0 m; *or*

(2) ''Unidirectional positioning repeatability'' equal to or less (better) than 1.1 μm along one or more linear axis with a travel length equal to or greater than 1.0 m

(B) Machine tools for milling (ECCN 2B001.b) having any of the following:

(1) Three linear axes plus one rotary axis which can be coordinated simultaneously for ''contouring control'' having any of the following:

(a) ''Unidirectional positioning repeatability'' equal to or less (better) than 0.9 μm along one or more linear axis with a travel length less than 1.0 m; *or*

(b) ''Unidirectional positioning repeatability'' equal to or less (better) than 1.1 μm along one or more linear axis with a travel length equal to or greater than 1.0 m;

(2) Specified by 2B001.b.2.a, 2B001.b.2.b or 2B001.b.2.c and having a ''unidirectional positioning repeatability'' equal to or less (better) than 1.1 μm along one or more linear axis; or

(3) A ''unidirectional positioning repeatability'' for jig boring machines equal to or less (better) than 1.1 μm along one or more linear axis;

(C) Electrical discharge machines (EDM) controlled under 2B001.d;

(D) Deep-hole-drilling machines controlled under 2B001.f;

(E) ''Numerically controlled'' or manual machine tools controlled under 2B003.

(iii) 2E002—''Technology'' according to the General Technology Note for the ''production'' of equipment as follows:

(A) Machine tools for turning (ECCN 2B001.a) having two or more axes which can be coordinated simultaneously for ''contouring control'' having any of the following:

(1) ''Unidirectional positioning repeatability'' equal to or less (better) than 0.9 μm along one or more linear axis with a travel length less than 1.0 m; *or*

(2) ''Unidirectional positioning repeatability'' equal to or less (better) than 1.1 μm along one or more linear axis with a travel length equal to or greater than 1.0 m;

(B) Machine tools for milling (ECCN 2B001.b) having any of the following:

(1) Three linear axes plus one rotary axis which can be coordinated simultaneously for ''contouring control'' having any of the following:

(a) ''Unidirectional positioning repeatability'' equal to or less (better) than 0.9 μm along one or more linear axis with a travel length less than 1.0 m; *or*

(b) ''Unidirectional positioning repeatability'' equal to or less (better) than 1.1 μm along one or more linear axis with a travel length equal to or greater than 1.0 m;

(2) Specified by 2B001.b.2.a, 2B001.b.2.b or 2B001.b.2.c and having a ''unidirectional positioning repeatability'' equal to or less (better) than 1.1 μm along one or more linear axis; or

(3) A ''unidirectional positioning repeatability'' for jig boring machines equal to or less (better) than 1.1 μm along one or more linear axis;

(C) Electrical discharge machines (EDM) controlled under 2B001.d;

(D) Deep-hole-drilling machines controlled under 2B001.f;

(E) ''Numerically controlled'' or manual machine tools controlled under 2B003.

(3) Category 3

(i) 3A002.g.1.

(ii) 3D001—''Software'' ''specially designed'' for the ''development'' or ''production'' of equipment controlled under 3A002.g.1.

(iii) 3E001—''Technology'' according to the General Technology Note for the ''development'' or ''production'' of equipment controlled under 3A002.g.1.

(4) Category 4

(i) 4A001.a.2.

(ii) 4D001—''Software'' ''specially designed'' for the ''development'' or ''production'' of equipment controlled under ECCN 4A001.a.2 or for the ''development'' or ''production'' of

''digital computers'' having an 'Adjusted Peak Performance' ('APP') exceeding 12.5 Weighted TeraFLOPS (WT).

(iii) 4E001—''Technology'' according to the General Technology Note for the ''development'' or ''production'' of any of the following equipment or ''software'': equipment controlled under ECCN 4A001.a.2, ''digital computers'' having an 'Adjusted Peak Performance' ('APP') exceeding 12.5 Weighted TeraFLOPS (WT), or ''software'' controlled under the specific provisions of 4D001 described in this Supplement.

(5) Category 5—Part 1

(i) 5A001.b.3, .b.5, and .h.

(ii) 5B001.a—Equipment and ''specially designed'' components or ''accessories'' therefor, ''specially designed'' for the ''development'' or ''production'' of equipment, functions or features controlled under 5A001.b.3, b.5, or .h.

(iii) 5D001.a—''Software'' ''specially designed'' for the ''development'' or ''production'' of equipment, functions or features controlled under 5A001.b.3, b.5, or .h.

(iv) [Reserved]

(v) 5E001.a—''Technology'' according to the General Technology Note for the ''development'' or ''production'' of equipment, functions or features controlled under 5A001.b.3, b.5, or .h or ''software'' described in this Supplement's description of 5D001.a.

(6) Category 6

(i) 6A001.a.1.b—Systems or transmitting and receiving arrays, designed for object detection or location, having any of the following:

(A) A transmitting frequency below 5 kHz or a sound pressure level exceeding 224 dB (reference 1 μPa at 1 m) for equipment with an operating frequency in the band from 5 kHz to 10 kHz inclusive;

(B) Sound pressure level exceeding 224 dB (reference 1 μPa at 1 m) for equipment with an operating frequency in the band from 10 kHz to 24 kHz inclusive;

(C) Sound pressure level exceeding 235 dB (reference 1 μPa at 1 m) for equipment with an operating frequency in the band between 24 kHz and 30 kHz;

(D) Forming beams of less than 1° on any axis and having an operating frequency of less than 100 kHz;

(E) Designed to operate with an unambiguous display range exceeding 5,120 m; *or*

(F) Designed to withstand pressure during normal operation at depths exceeding 1,000 m and having transducers with any of the following:

(1) Dynamic compensation for pressure; or

(2) Incorporating other than lead zirconate titanate as the transduction element;

(ii) 6A001.a.1.e.

(iii) 6A001.a.2.a.1, a.2.a.2, a.2.a.3, a.2.a.5, and a.2.a.6.

(iv) 6A001.a.2.b.

(v) 6A001.a.2.c—Processing equipment, ''specially designed'' for real time application with towed acoustic hydrophone arrays, having ''user accessible programmability'' and time or frequency domain processing and correlation, including spectral analysis, digital filtering and beamforming using Fast Fourier or other transforms or processes.

(vi) 6A001.a.2.d.

(vii) 6A001.a.2.e.

(viii) 6A001.a.2.f—Processing equipment, ''specially designed'' for real time application with bottom or bay cable systems, having ''user accessible programmability'' and time or frequency domain processing and correlation, including spectral analysis, digital filtering and beamforming using Fast Fourier or other transforms or processes.

(ix) 6A002.a.1.a, a.1.b, and a.1.c.

(x) 6A002.a.1.d.

(xi) 6A002.a.2.a—Image intensifier tubes having all of the following:

(A) A peak response in the wavelength range exceeding 400 nm but not exceeding 1,050 nm;

(B) Electron image amplification using any of the following:

(1) A microchannel plate for electron image amplification with a hole pitch (center-to-center spacing) of 12 μm or less; or

(2) An electron sensing device with a non-binned pixel pitch of 500 μm or less, ''specially designed'' or modified to achieve ' charge multiplication' other than by a microchannel plate; and

(C) Any of the following photocathodes:

(1) Multialkali photocathodes (e.g., S–20 and S–25) having a luminous sensitivity exceeding 700 μA/lm;

(2) GaAs or GaInAs photocathodes; *or*

(3) Other ''III–V compound'' semiconductor photocathodes having a maximum ''radiant sensitivity'' exceeding 10 mA/W.

(xii) 6A002.a.2.b.

(xiii) 6A002.a.3—Subject to the following additional notes:

NOTE 1: 6A002.a.3 does not apply to the following ''focal plane arrays'' in this Supplement:

a. Platinum Silicide (PtSi) ''focal plane arrays'' having less than 10,000 elements;

b. Iridium Silicide (IrSi) ''focal plane arrays.''

NOTE 2: 6A002.a.3 does not apply to the following ''focal plane arrays'' in this Supplement:

a. Indium Antimonide (InSb) or Lead Selenide (PbSe) ''focal plane arrays'' having less than 256 elements;

b. Indium Arsenide (InAs) ''focal plane arrays'';

c. Lead Sulphide (PbS) ''focal plane arrays'';

d. Indium Gallium Arsenide (InGaAs) ''focal plane arrays.''

NOTE 3: 6A002.a.3 does not apply to Mercury Cadmium Telluride (HgCdTe) ''focal plane arrays'' as follows in this Supplement:

a. ' Scanning Arrays' having any of the following:

1. 30 elements or less; or

2. Incorporating time delay-and-integration within the element and having 2 elements or less;

b. ' Staring Arrays' having less than 256 elements.

TECHNICAL NOTES: a. ' Scanning Arrays' are defined as ''focal plane arrays'' designed for use with a scanning optical system that images a scene in a sequential manner to produce an image;

b. ' Staring Arrays' are defined as ''focal plane arrays'' designed for use with a non-scanning optical system that images a scene.

NOTE 6: 6A002.a.3 does not apply to the following ''focal plane arrays'' in this List:

a. Gallium Arsenide (GaAs) or Gallium Aluminum Arsenide (GaAlAs) quantum well ''focal plane arrays'' having less than 256 elements;

b. Microbolometer ''focal plane arrays'' having less than 8,000 elements.

NOTE 7: 6A002.a.3.g does not apply to the linear (1-dimensional) ''focal plane arrays'' ''specially designed'' or modified to achieve ' charge multiplication' having 4,096 elements or less.

NOTE 8: 6A002.a.3.g. does not apply to the non-linear (2-dimensional) ''focal plane arrays'' ''specially designed'' or modified to achieve ' charge multiplication' having a maximum linear dimension of 4,096 elements and a total of 250,000 elements or less.

(xiv) 6A002.b.

(xv) 6A002.c—' Direct view' imaging equipment incorporating any of the following:

(A) Image intensifier tubes having the characteristics listed in this Supplement's description of 6A002.a.2.a or 6A002.a.2.b;

(B) ''Focal plane arrays'' having the characteristics listed in this Supplement's description of 6A002.a.3; or

(C) Solid-state detectors having the characteristics listed in 6A002.a.1.

(xvi) 6A003.b.3—Imaging cameras incorporating image intensifier tubes having the characteristics listed in this Supplement's description of 6A002.a.2.a or 6A002.a.2.b

NOTE: 6A003.b.3 does not apply to imaging cameras ''specially designed'' or modified for underwater use.

(xvii) 6A003.b.4—Imaging cameras incorporating ''focal plane arrays'' having any of the following:

(A) Incorporating ''focal plane arrays'' specified by this Supplement's description of 6A002.a.3.a to 6A002.a.3.e;

(B) Incorporating ''focal plane arrays'' specified by this Supplement's description of 6A002.a.3.f; or

(C) Incorporating ''focal plane arrays'' specified by this Supplement's description of 6A002.a.3.g.

NOTE 1: ' Imaging cameras' described in 6A003.b.4 include ''focal plane arrays'' combined with sufficient ''signal processing'' electronics, beyond the read out integrated circuit, to enable as a minimum the output of an analog or digital signal once power is supplied.

NOTE 2: 6A003.b.4.a does not control imaging cameras incorporating linear ''focal plane arrays'' with twelve 12 elements or fewer, not employing time-delay-and-integration within the element, and designed for any of the following:

a. Industrial or civilian intrusion alarm, traffic or industrial movement control or counting systems;

b. Industrial equipment used for inspection or monitoring of heat flows in buildings, equipment or industrial processes;

c. Industrial equipment used for inspection, sorting or analysis of the properties of materials;

d. Equipment ''specially designed'' for laboratory use; or

e. Medical equipment.

NOTE 3: 6A003.b.4.b does not control imaging cameras having any of the following characteristics:

a. A maximum frame rate equal to or less than 9 Hz;

b. Having all of the following:

1. Having a minimum horizontal or vertical ' Instantaneous-Field-of-View (IFOV)' of at least 10 mrad/pixel (milliradians/pixel);

2. Incorporating a fixed focal-length lens that is not designed to be removed;

3. Not incorporating a ' direct view' display; and

TECHNICAL NOTE: ' Direct view' refers to an imaging camera operating in the infrared spectrum that presents a visual image to a human observer using a near-to-eye micro display incorporating any light-security mechanism.

4. Having any of the following:

a. No facility to obtain a viewable image of the detected field-of-view; or

b. The camera is designed for a single kind of application and designed not to be user modified; or

TECHNICAL NOTE: ' Instantaneous Field of View (IFOV)' specified in Note 3.b is the lesser figure of the ' Horizontal FOV' or the ' Vertical FOV'.

' Horizontal IFOV' = horizontal Field of View (FOV)/number of horizontal detector elements

' Vertical IFOV'= vertical Field of View (FOV)/number of vertical detector elements.

c. Where the camera is ''specially designed'' for installation into a civilian passenger land vehicle of less than 3 tonnes three tons (gross vehicle weight) and having all of the following:

1. Is operable only when installed in any of the following:

a. The civilian passenger land vehicle for which it was intended; or

b. A ''specially designed'', authorized maintenance test facility; and

2. Incorporates an active mechanism that forces the camera not to function when it is removed from the vehicle for which it was intended.

NOTE: When necessary, details of the items will be provided, upon request, to the Bureau

of Industry and Security in order to ascertain compliance with the conditions described in Note 3.b.4 and Note 3.c in this Note to 6A003.b.4.b.

NOTE 4: 6A003.b.4.c does not apply to ' imaging cameras' having any of the following characteristics:

a. Having all of the following:

1. Where the camera is ''specially designed'' for installation as an integrated component into indoor and wall-plug-operated systems or equipment, limited by design for a single kind of application, as follows:

a. Industrial process monitoring, quality control, or analysis of the properties of materials;

b. Laboratory equipment ''specially designed'' for scientific research;

c. Medical equipment;

d. Financial fraud detection equipment; and

2. Is only operable when installed in any of the following:

a. The system(s) or equipment for which it was intended; or

b. A ''specially designed'', authorized maintenance facility; and

3. Incorporates an active mechanism that forces the camera not to function when it is removed from the system(s) or equipment for which it was intended;

b. Where the camera is ''specially designed'' for installation into a civilian passenger land vehicle of less than 3 tonnes (gross vehicle weight), or passenger and vehicle ferries having a length overall (LOA) 65 m or greater, and having all of the following:

1. Is only operable when installed in any of the following:

a. The civilian passenger land vehicle or passenger and vehicle ferry for which it was intended; or

b. A ''specially designed'', authorized maintenance test facility; and

2. Incorporates an active mechanism that forces the camera not to function when it is removed from the vehicle for which it was intended;

c. Limited by design to have a maximum ''radiant sensitivity'' of 10 mA/W or less for wavelengths exceeding 760 nm, having all of the following:

1. Incorporating a response limiting mechanism designed not to be removed or modified; and

2. Incorporates an active mechanism that forces the camera not to function when the response limiting mechanism is removed; and

3. Not ''specially designed'' or modified for underwater use; or

d. Having all of the following:

1. Not incorporating a ' direct view' or electronic image display;

2. Has no facility to output a viewable image of the detected field of view;

3. The ''focal plane array'' is only operable when installed in the camera for which it was intended; and

4. The ''focal plane array'' incorporates an active mechanism that forces it to be permanently inoperable when removed from the camera for which it was intended.

NOTE: When necessary, details of the item will be provided, upon request, to the Bureau of Industry and Security in order to ascertain compliance with the conditions described in Note 4 above.

NOTE 5: 6A003.b.4.c does not apply to imaging cameras ''specially designed'' or modified for underwater use.

(xviii) 6A003.b.5.

(xix) 6A004.c.

(xx) 6A004.d.

(xxi) 6A006.a.1.

(xxii) 6A006.a.2—''Magnetometers'' using optically pumped or nuclear precession (proton/Overhauser) ''technology'' having a ' sensitivity' lower (better) than 2 pT (rms) per square root Hz.

(xxiii) 6A006.c.1—''Magnetic gradiometers'' using multiple ''magnetometers'' specified by 6A006.a.1 or this Supplement's description of 6A006.a.2.

(xxiv) 6A006.d—''Compensation systems'' for the following:

(A) Magnetic sensors specified by 6A006.a.2 and using optically pumped or nuclear precession (proton/Overhauser) ''technology'' that will permit these sensors to realize a ' sensitivity' lower (better) than 2 pT rms per square root Hz.

(B) Underwater electric field sensors specified by 6A006.b.

(C) Magnetic gradiometers specified by 6A006.c. that will permit these sensors to realize a ' sensitivity' lower (better) than 3 pT/m rms per square root Hz.

(xxv) 6A006.e—Underwater electromagnetic receivers incorporating magnetometers specified by 6A006.a.1 or this Supplement's description of 6A006.a.2.

(xxvi) 6A008.d, .h, and .k.

(xxvii) 6B008.

(xxviii) 6D001—''Software'' ''specially designed'' for the ''development'' or ''production'' of equipment specified by 6A004.c, 6A004.d, 6A008.d, 6A008.h, 6A008.k, or 6B008.

(xxix) 6D003.a.

(xxx) 6E001.

(xxxi) 6E002—''Technology'' according to the General Technology Note for the ''production'' of equipment specified by the 6A or 6B provisions described in this Supplement.

(7) Category 7

(i) 7D002.

(ii) 7D003.a.

(iii) 7D003.b.

(iv) [Reserved]

(v) 7D004.a to .d and .g.

(vi) 7E001.

(vii) 7E002.

(8) Category 8

(i) 8A001.b to .d.

(ii) 8A002.b—Systems ''specially designed'' or modified for the automated control of the motion of submersible vehicles specified by 8A001.b through .d using navigation data having closed loop servo-controls and having any of the following:

(A) Enabling a vehicle to move within 10 m of a predetermined point in the water column;

(B) Maintaining the position of the vehicle within 10 m of a predetermined point in the water column; or

(C) Maintaining the position of the vehicle within 10 m while following a cable on or under the seabed.

(iii) 8A002.h and .j.

(iv) 8A002.o.3.

(v) 8A002.p.

(vi) 8D001—''Software'' ''specially designed'' for the ''development'' or ''production'' of equipment in 8A001.b to .d, 8A002.b (as described in this Supplement), 8A002.h, 8A002.j, 8A002.o.3, or 8A002.p.

(vii) 8D002.

(viii) 8E001—''Technology'' according to the General Technology Note for the ''development'' or ''production'' of equipment specified by 8A001.b to .d, 8A002.b (as described in this Supplement), 8A002.h, 8A002.j, 8A002.o.3, or 8A002.p.

(ix) 8E002.a.

(9) Category 9

(i) 9A011.

(ii) 9B001.

(iii) 9D001—''Software'' ''specially designed'' or modified for the ''development'' of equipment or ''technology,'' specified by 9A011, 9B001.b. 9E003.a.1, 9E003.a.2 to a.5 or 9E003.a.8 or 9E003.h.

(iv) 9D002—''Software'' ''specially designed'' or modified for the ''production'' of equipment specified by 9A011 or 9B001.b.

(v) 9D004.a and .c.

(vi) 9E001.

(vii) 9E002.

(viii) 9E003.a.1.

(ix) 9E003.a.2 to a.5, a.8, .h.

[78 FR 22736, Apr. 16, 2013, as amended at 79 FR 45307, Aug. 4, 2014; 80 FR 29455, May 21, 2015; 81 FR 64691, Sept. 20, 2016]

SUPPLEMENT NO. 7 TO PART 774—VERY SENSITIVE LIST

NOTE TO SUPPLEMENT NO. 7: *While the items on this list are identified by ECCN rather than by Wassenaar Arrangement numbering, the item descriptions are drawn directly from the Wassenaar Arrangement's Very Sensitive List, which is a subset of the Wassenaar Arrangement's Sensitive List. If text accompanies an ECCN below, then the Very Sensitive List is limited to a subset of items classified under the specific ECCN or has differing parameters.*

(1) Category 1

(i) 1A002.a.

(ii) 1C001.

(iii) 1C012.

(iv) 1E001—''Technology'' according to the General Technology Note for the ''development'' or ''production'' of equipment and materials specified by 1A002.a, 1C001, or 1C012.

(2) Category 5—Part 1

(i) 5A001.b.5.

(ii) 5A001.h.

(iii) 5D001.a—''Software'' ''specially designed'' for the ''development'' or ''production'' of equipment, functions or features specified by 5A001.b.5 or 5A001.h.

(iv) 5E001.a—''Technology'' according to the General Technology Note for the ''development'' or ''production'' of equipment, functions, features or ''software'' specified by 5A001.b.5, 5A001.h, or 5D001.a.

(3) Category 6

(i) 6A001.a.1.b.1—Systems or transmitting and receiving arrays, designed for object detection or location, having a sound pressure level exceeding 210 dB (reference 1 μPa at 1 m) and an operating frequency in the band from 30 Hz to 2 kHz.

(ii) 6A001.a.2.a.1 to a.2.a.3, a.2.a.5, or a.2.a.6.

(iii) 6A001.a.2.b.

(iv) 6A001.a.2.c—Processing equipment, ''specially designed'' for real time application with towed acoustic hydrophone arrays, having ''user accessible programmability'' and time or frequency domain processing and correlation, including spectral analysis, digital filtering and beamforming using Fast Fourier or other transforms or processes.

(v) 6A001.a.2.e.

(vi) 6A001.a.2.f—Processing equipment, ''specially designed'' for real time application with bottom or bay cable systems, having ''user accessible programmability'' and time or frequency domain processing and correlation, including spectral analysis, digital filtering and beamforming using Fast Fourier or other transforms or processes.

(vii) 6A002.a.1.c.

(viii) 6B008.

(ix) 6D001—''Software'' ''specially designed'' for the ''development'' or ''production'' of equipment specified by 6B008.

(x) 6D003.a.

(xi) 6E001—''Technology'' according to the General Technology Note for the ''development'' of equipment or ''software'' specified by the 6A, 6B, or 6D provisions described in this Supplement.

(xii) 6E002—''Technology'' according to the General Technology Note for the ''production'' of equipment specified by the 6A or 6B provisions described in this Supplement.

(4) Category 7

(i) 7D003.a.

(ii) 7D003.b.

(5) Category 8

(i) 8A001.b.

(ii) 8A001.d.

(iii) 8A002.o.3.b.

(iv) 8D001—''Software'' ''specially designed'' for the ''development'' or ''production'' of equipment specified by 8A001.b, 8A001.d, or 8A002.o.3.b.

(v) 8E001—''Technology'' according to the General Technology Note for the ''development'' or ''production'' of equipment specified by 8A001.b, 8A001.d, or 8A002.o.3.b.

(6) Category 9

(i) 9A011.

(ii) 9D001—''Software'' ''specially designed'' or modified for the ''development'' of equipment or ''technology'' specified by 9A011, 9E003.a.1, or 9E003.a.3.a.

(iii) 9D002—''Software'' ''specially designed'' or modified for the ''production'' of equipment specified by 9A011.

(iv) 9E001—''Technology'' according to the General Technology note for the ''development'' of equipment or ''software'' specified by 9A011 or this Supplement's description of 9D001 or 9D002.

(v) 9E002—''Technology'' according to the General Technology Note for the ''production'' of equipment specified by 9A011.

(vi) 9E003.a.1.

(vii) 9E003.a.3.a.

[78 FR 22736, Apr. 16, 2013]

PARTS 775–780 [RESERVED]

SUBCHAPTER D—ADDITIONAL PROTOCOL REGULATIONS

PART 781—GENERAL INFORMATION AND OVERVIEW OF THE ADDITIONAL PROTOCOL REGULATIONS (APR)

Sec.
781.1 Definitions of terms used in the Additional Protocol Regulations (APR).
781.2 Purposes of the Additional Protocol and APR.
781.3 Scope of the APR.
781.4 U.S. Government requests for information needed to satisfy the requirements of the APR or the Act.
781.5 Authority.

AUTHORITY: United States Additional Protocol Implementation Act of 2006, Pub. Law No. 109–401, 120 Stat. 2726 (December 18, 2006) (to be codified at 22 U.S.C. 8101–8181); Executive Order 13458 (February 4, 2008).

SOURCE: 73 FR 65128, Oct. 31, 2008, unless otherwise noted.

§ 781.1 Definitions of terms used in the Additional Protocol Regulations (APR).

The following are definitions of terms used in parts 781 through 786 of this subchapter (collectively known as the APR), unless otherwise noted:

Access Point of Contact (A–POC). The individual at a location who will be notified by BIS immediately upon receipt of an IAEA request for complementary access to a location. BIS must be able to contact either the A–POC or alternate A–POC on a 24-hour basis. All interactions with the location for permitting and planning an IAEA complementary access will be conducted through the A–POC or the alternate A–POC, if the A–POC is unavailable.

Act (The). The United States Additional Protocol Implementation Act of 2006 (Pub. L. 109–401).

Additional Protocol. The Protocol Additional to the Agreement between the United States of America and the International Atomic Energy Agency for the Application of Safeguards in the United States of America, with Annexes, signed at Vienna on June 12, 1998 (T. Doc. 107–097), known as the Additional Protocol.

Additional Protocol Regulations (APR). Those regulations contained in 15 CFR parts 781 to 786 that were promulgated by the Department of Commerce to implement and enforce the Additional Protocol.

Agreement State. Any State of the United States with which the U.S. Nuclear Regulatory Commission (NRC) has entered into an effective agreement under Subsection 274b of the Atomic Energy Act of 1954, as amended (42 U.S.C. 2011 *et seq.*).

Beneficiation. The concentration of nuclear ores through physical or any other non-chemical methods.

Bureau of Industry and Security (BIS). The Bureau of Industry and Security of the United States Department of Commerce, including Export Administration and Export Enforcement.

Complementary Access. The exercise of the IAEA's access rights as set forth in Articles 4 to 6 of the Additional Protocol (see part 784 of the APR for requirements concerning the scope and conduct of complementary access).

Complementary Access Notification. A written announcement issued by BIS to a person who is subject to the APR (e.g., the owner, operator, occupant, or agent in charge of a location that is subject to the APR as specified in § 781.3(a) of the APR) that informs this person about an impending complementary access in accordance with the requirements of part 784 of the APR.

Host Team. The U.S. Government team that accompanies the International Atomic Energy Agency (IAEA) inspectors during complementary access, as provided for in the Additional Protocol and conducted in accordance with the provisions of the APR.

Host Team Leader. The representative from the Department of Commerce who leads the Host Team during complementary access.

International Atomic Energy Agency (IAEA). The United Nations organization, headquartered in Vienna, Austria, that serves as the official international verification authority for the implementation of safeguards agreements concluded pursuant to the Treaty on

the Non-Proliferation of Nuclear Weapons (NPT).

ITAR. The International Traffic in Arms Regulations (22 CFR Parts 120–130), which are administered by the Directorate of Defense Trade Controls, U.S. Department of State.

Location. Any geographical point or area declared or identified by the United States or specified by the IAEA (see ''*location specified by the IAEA*,'' as defined in this section).

Location-specific environmental sampling. The collection of environmental samples (e.g., air, water, vegetation, soil, smears) at, and in the immediate vicinity of, a location specified by the IAEA for the purpose of assisting the IAEA to draw conclusions about the absence of undeclared nuclear material or nuclear activities at the specified location.

Location-specific subsidiary arrangement. An agreement that sets forth procedures, which have been mutually agreed upon by the United States and the IAEA, for conducting complementary access at a specific reportable location. (Also see definition of ''*subsidiary arrangement*'' in this section.)

Location specified by the IAEA. A location that is selected by the IAEA to:

(1) Verify the absence of undeclared nuclear material or nuclear activities; or

(2) Obtain information that the IAEA needs to amplify or clarify information contained in the U.S. declaration.

Managed access. Procedures implemented by the Host Team during complementary access to prevent the dissemination of proliferation sensitive information, to meet safety or physical protection requirements, to protect proprietary or commercially sensitive information, or to protect activities of direct national security significance to the United States, including information associated with such activities, in accordance with the Additional Protocol.

National Security Exclusion (NSE). The right of the United States, as specified under Article 1.b of the Additional Protocol, to exclude the application of the Additional Protocol when the United States Government determines that its application would result in access by the IAEA to activities of direct national security significance to the United States or to locations or information associated with such activities.

NRC. The U.S. Nuclear Regulatory Commission.

Nuclear fuel cycle-related research and development. Those activities that are specifically related to any process or system development aspect of any of the following:

(1) Conversion of nuclear material;

(2) Enrichment of nuclear material;

(3) Nuclear fuel fabrication;

(4) Reactors;

(5) Critical facilities;

(6) Reprocessing of nuclear fuel; or

(7) Processing (not including repackaging or conditioning not involving the separation of elements, for storage or disposal) of intermediate or high-level waste containing plutonium, high enriched uranium or uranium-233.

Nuclear Material. Any source material or special fissionable material, as follows.

(1) *Source material* means uranium containing the mixture of isotopes occurring in nature; uranium depleted in the isotope 235; thorium; any of the foregoing in the form of metal, alloy, chemical, or concentrate. The term source material shall not be interpreted as applying to ore or ore residue.

(2) *Special fissionable material* means plutonium 239; uranium 233; uranium enriched in the isotopes 235 or 233; any material containing one or more of the foregoing, but the term special fissionable material does not include source material.

Person. Any individual, corporation, partnership, firm, association, trust, estate, public or private institution, any State or any political subdivision thereof, or any political entity within a State, any foreign government or nation or any agency, instrumentality or political subdivision of any such government or nation, or other entity located in the United States.

Report Point of Contact (R–POC). A person whom BIS may contact for the purposes of clarification of information provided in report(s) and for general information. The R–POC need not be the person who prepares the forms or certifies the report(s) for submission to

BIS, but should be familiar with the content of the reports.

Reportable Location. A location that must submit an *Initial Report*, *Annual Update Report*, or *No Changes Report* to BIS, in accordance with the provisions of the APR, is considered to be a ''reportable location'' with reportable activities (see §783.1(a) and (b) of the APR for nuclear fuel cycle-related activities subject to these reporting requirements).

Reporting Code. A unique identification used for identifying a location where one or more nuclear fuel cycle-related activities subject to the reporting requirements of the APR are located.

Subsidiary Arrangement (or General Subsidiary Arrangement). An agreement that sets forth procedures, which have been mutually agreed upon by the United States and the IAEA, for implementing the Additional Protocol, irrespective of the location. (Also see the definition of ''*location-specific subsidiary arrangement*'' in this section.)

United States. Means the several States of the United States, the District of Columbia, and the commonwealths, territories, and possessions of the United States, and includes all places under the jurisdiction or control of the United States, including any of the places within the provisions of paragraph (41) of section 40102 of Title 49 of the United States Code, any civil aircraft of the United States or public aircraft, as such terms are defined in paragraphs (1) and (37), respectively, of section 40102 of Title 49 of the United States Code, and any vessel of the United States, as such term is defined in section 3(b) of the Maritime Drug Enforcement Act, as amended (section 1903(b) of Title 46 App. of the United States Code).

Uranium Hard-Rock Mine. Means any of the following:

(1) An area of land from which uranium is extracted in non-liquid form;

(2) Private ways and roads appurtenant to such an area; and

(3) Lands, excavations, underground passageways, shafts, slopes, tunnels and workings, structures, facilities, equipment, machines, tools, or other property including impoundments, retention dams, and tailings ponds, on the surface or underground, used in, or to be used in, or resulting from, the work of extracting such uranium ore from its natural deposits in non-liquid form, or if in liquid form, with workers underground, or used in, or to be used in, the concentration of such uranium ore, or the work of the uranium ore.

Uranium Hard-Rock Mine (Closed-down). A uranium hard-rock mine where ore production has ceased and the mine or its infrastructure is not capable of further operation.

Uranium Hard-Rock Mine (Operating). A uranium hard-rock mine where ore is produced on a routine basis.

Uranium Hard-Rock Mine (Suspended). A uranium hard-rock mine where ore production has ceased, but the mine and its infrastructure are capable of further operation.

U.S. declaration. The information submitted by the United States to the IAEA in fulfillment of U.S. obligations under the Additional Protocol.

United States Government locations. Those locations owned and operated by a U.S. Government agency (including those operated by contractors to the agency), and those locations leased to and operated by a U.S. Government agency (including those operated by contractors to the agency). United States Government locations do not include locations owned by a U.S. Government agency and leased to a private organization or other entity such that the private organization or entity may independently decide the purposes for which the locations will be used.

Wide-area environmental sampling. The collection of environmental samples (e.g., air, water, vegetation, soil, smears) at a set of locations specified by the IAEA for the purpose of assisting the IAEA to draw conclusions about the absence of undeclared nuclear material or nuclear activities over a wide area.

You. The term ''you'' or ''your'' means any person. With regard to the reporting requirements of the APR, ''you'' refers to persons that have an obligation to report certain activities under the provisions of the APR. (Also see the definition of ''*person*'' in this section.)

§ 781.2 Purposes of the Additional Protocol and APR.

(a) *General.* The Additional Protocol is a supplement to the existing U.S.–IAEA Safeguards Agreement, which entered into force in 1980. It provides the IAEA with access to additional information about civil nuclear and nuclear-related items, materials, and activities and with physical access to reportable locations where nuclear facilities, materials, or ores are located (to ensure the absence of undeclared nuclear material and activities) and to other reportable locations and locations specified by the IAEA (to resolve questions or inconsistencies related to the U.S. Declaration). The Additional Protocol is based upon and is virtually identical to the IAEA Model Additional Protocol (see IAEA Information Circular, INFCIRC/540, at *http://www.iaea.org/Publications /Documents/Infcircs /index.html*), except that it excludes IAEA access to activities with direct national security significance to the United States, or to locations or information associated with such activities, and provides for managed access in connection with those same activities and to locations or information associated with those activities.

(b) *Purposes of the Additional Protocol.* The Additional Protocol is designed to enhance the effectiveness of the U.S.–IAEA Safeguards Agreement by providing the IAEA with information about aspects of the U.S. civil nuclear fuel cycle, including: Mining and concentration of nuclear ores; nuclear-related equipment manufacturing, assembly, or construction; imports, exports, and other activities involving certain source material (i.e., source material that has not reached the composition and purity suitable for fuel fabrication or for being isotopically enriched); imports and exports of specified nuclear equipment and non-nuclear material; nuclear fuel cycle-related research and development activities not involving nuclear material; and other activities involving nuclear material not currently subject to the U.S.–IAEA Safeguards Agreement (e.g., nuclear material that has been exempted from safeguards pursuant to paragraph 37 of INFCIRC/153 (Corrected) June 1972).

(c) *Purposes of the Additional Protocol Regulations.* To fulfill certain obligations of the United States under the Additional Protocol, BIS has established the APR, which require the reporting of information to BIS (as described in parts 783 and 784 of the APR) from all persons and locations in the United States (as described in § 781.3(a) of the APR) with reportable activities. This information, together with information reported to other U.S. Government agencies and less any information to which the U.S. Government applies the national security exclusion, is aggregated into a U.S. declaration, which is submitted annually to the IAEA. The APR also provide for complementary access at such locations in accordance with the provisions in part 784 of the APR.

§ 781.3 Scope of the APR.

The Additional Protocol Regulations or APR implement certain obligations of the United States under the Protocol Additional to the Agreement Between the United States of America and the International Atomic Energy Agency Concerning the Application of Safeguards in the United States of America, known as the Additional Protocol.

(a) *Persons and locations subject to the APR.* The APR, promulgated by the Department of Commerce, shall apply to all persons and locations in the United States, *except*:

(1) Locations that are subject to the regulatory authority of the Nuclear Regulatory Commission (NRC), pursuant to the NRC's regulatory jurisdiction under the Atomic Energy Act of 1954, as amended (42 U.S.C. 2011 *et seq.*); and

(2) The following *United States Government locations* (see definition in § 781.1 of the APR):

(i) Department of Energy locations;

(ii) Department of Defense locations;

(iii) Central Intelligence Agency locations; and

(iv) Department of State locations.

(b) *Activities subject to the APR.* The activities that are subject to the recordkeeping and reporting requirements described in the APR are found in parts 783 and 784 of this subchapter (APR).

§ 781.4 U.S. Government requests for information needed to satisfy the requirements of the APR or the Act.

From time-to-time, one or more U.S. Government agencies (i.e., the Department of Defense, the Department of Energy, the NRC, or BIS) may contact a location to request information that the U.S. Government has determined to be necessary to satisfy certain requirements of the APR or the Act (e.g., clarification requests or vulnerability assessments). If the manner of providing such information is not specified in the APR, the agency in question will provide the location with appropriate instructions.

§ 781.5 Authority.

The APR implement certain provisions of the Additional Protocol under the authority of the Additional Protocol Implementation Act of 2006 (Pub. L. 109–401, 120 Stat. 2726 (December 18, 2006)). In Executive Order 13458 of February 4, 2008, the President delegated authority to the Department of Commerce to promulgate regulations to implement the Act, and consistent with the Act, to carry out appropriate functions not otherwise assigned in the Act, but necessary to implement certain declaration and complementary access requirements of the Additional Protocol and the Act.

PART 782—GENERAL INFORMATION REGARDING REPORTING REQUIREMENTS AND PROCEDURES

Sec.

782.1 Overview of reporting requirements under the APR.
782.2 Persons responsible for submitting reports required under the APR.
782.3 Compliance review.
782.4 Assistance in determining your obligations.
782.5 Where to obtain APR report forms.
782.6 Where to submit reports.

AUTHORITY: United States Additional Protocol Implementation Act of 2006, Pub. Law No. 109–401, 120 Stat. 2726 (December 18, 2006) (to be codified at 22 U.S.C. 8101–8181); Executive Order 13458 (February 4, 2008).

SOURCE: 73 FR 65128, Oct. 31, 2008, unless otherwise noted.

§ 782.1 Overview of reporting requirements under the APR.

Part 783 of the APR describes the reporting requirements for certain activities specified in the APR. For each activity specified in part 783, BIS may require that an *Initial Report*, an *Annual Update Report*, a *No Changes Report*, an *Import Confirmation Report*, a *Supplemental Information Report*, or an *Amended Report* be submitted to BIS. In addition, persons subject to the APR may be required to provide BIS with information needed to assist the IAEA in clarifying or verifying information specified in the U.S. declaration or in clarifying or amplifying information concerning the nature of the activities conducted at a location (see §§ 783.1(d) and 784.1(b)(2) of the APR for requirements concerning a *Supplemental Information Report*). If, after reviewing part 783 of the APR, you determine that you are subject to one or more APR reporting requirements, you may obtain the appropriate forms by contacting BIS (see § 782.5 of the APR). In addition, forms may be downloaded from the Internet at *http://www.ap.gov*.

§ 782.2 Persons responsible for submitting reports required under the APR.

The owner, operator, or senior management official of a location subject to the reporting requirements in part 783 of the APR is responsible for the submission of all required reports and documents in accordance with all applicable provisions of the APR.

§ 782.3 Compliance review.

Periodically, BIS will request information from persons and locations subject to the APR to determine compliance with the reporting and recordkeeping requirements set forth herein. Information requested may relate to nuclear fuel cycle research and development activities not involving nuclear material, nuclear-related manufacturing, assembly or construction activities, or uranium hard-rock mining activities as described in part 783 of the APR. Any person or location subject to the APR and receiving such a request for information must submit a response to BIS within 30 calendar days

of receipt of the request. If the requested information cannot be provided to BIS, the response must fully explain the reason why such information cannot be provided. If additional time is needed to collect the requested information, the person or location should request an extension of the submission deadline, before the expiration of the 30-day time period set by BIS, and include an explanation for why an extension is needed. BIS will grant only one extension of the submission deadline. The maximum period of time for which BIS will grant an extension will be 30 days. Failure to respond to this request could lead to an investigation of the person's or location's reporting and recordkeeping procedures under the APR.

§ 782.4 Assistance in determining your obligations.

(a) *Determining if your activity is subject to reporting requirements.* (1) If you need assistance in determining whether or not your activity is subject to the APR's reporting requirements, submit your written request for an activity determination to BIS. Such requests may be sent to BIS via facsimile to (202) 482–1731, e-mailed to *apdr@bis.doc.gov*, or hand delivered, submitted by courier, or mailed to BIS, in hard copy, to the following address: Treaty Compliance Division, Bureau of Industry and Security, U.S. Department of Commerce, Attn: AP Activity Determination, 14th Street and Pennsylvania Avenue, NW., Room 4515, Washington, DC 20230. Your activity determination request should include the information indicated in paragraph (a)(2) of this section to ensure an accurate determination. Also include any additional information that would be relevant to the activity described in your request. If you are unable to provide all of the information required in paragraph (a)(2) of this section, you should include an explanation identifying the reasons or deficiencies that preclude you from supplying the information. If BIS cannot make a determination based upon the information submitted, BIS will return the request to you and identify the additional information that is necessary to complete an activity determination. BIS will provide a written response to your activity determination request within 10 business days of receipt of the request.

(2) You must include the following information when submitting an activity determination request to BIS:

(i) Date of your request;

(ii) Name of your organization and complete street address;

(iii) Point of contact for your organization;

(iv) Phone and facsimile number for your point of contact;

(v) E-mail address for your point of contact, if you want BIS to provide an acknowledgment of receipt via e-mail; and

(vi) Description of your activity in sufficient detail as to allow BIS to make an accurate determination.

(b) *Other inquiries.* If you need assistance in interpreting the provisions of the APR or need assistance with APR report forms or complementary access issues, contact BIS's Treaty Compliance Division by phone at (202) 482–1001. If you require a written response from BIS, submit a detailed request to BIS that explains your question, issue, or request. Send the request to the address or facsimile included in paragraph (a) of this section, or e-mail the request to *apqa@bis.doc.gov*. To ensure that your request is properly routed, include the notation, ''ATTENTION: APR Advisory Request,'' on your submission to BIS.

§ 782.5 Where to obtain APR report forms.

Report forms required by the APR may be downloaded from the Internet at *http://www.ap.gov*. You also may obtain these forms by contacting: Treaty Compliance Division, Bureau of Industry and Security, U.S. Department of Commerce, Attn: Forms Request, 14th Street and Pennsylvania Avenue, NW., Room 4515, Washington, DC 20230, Telephone: (202) 482–1001.

§ 782.6 Where to submit reports.

Reports required by the APR must be sent to BIS via facsimile to (202) 482–1731 or hand delivered , submitted by courier, or mailed to BIS, in hard copy, to the following address: Treaty Compliance Division, Bureau of Industry

and Security, U.S. Department of Commerce, Attn: AP Reports, 14th Street and Pennsylvania Avenue, NW., Room 4515, Washington, DC 20230, Telephone: (202) 482–1001. Specific types of reports and due dates are outlined in supplement no. 1 to part 783 of the APR.

PART 783—CIVIL NUCLEAR FUEL CYCLE-RELATED ACTIVITIES NOT INVOLVING NUCLEAR MATERIALS

Sec.

783.1 Reporting requirements.
783.2 Amended reports.
783.3 Reports containing information determined by BIS not to be required by the APR.
783.4 Deadlines for submission of reports and amendments.
SUPPLEMENT NO. 1 TO PART 783—DEADLINES FOR SUBMISSION OF REPORTS AND AMENDMENTS
SUPPLEMENT NO. 2 TO PART 783—MANUFACTURING ACTIVITIES
SUPPLEMENT NO. 3 TO PART 783—LIST OF SPECIFIED EQUIPMENT AND NON-NUCLEAR MATERIAL FOR THE REPORTING OF IMPORTS

AUTHORITY: United States Additional Protocol Implementation Act of 2006, Pub. Law No. 109–401, 120 Stat. 2726 (December 18, 2006) (to be codified at 22 U.S.C. 8101–8181); Executive Order 13458 (February 4, 2008).

SOURCE: 73 FR 65128, Oct. 31, 2008, unless otherwise noted.

§ 783.1 Reporting requirements.

(a) *Initial report.* You must submit an *Initial Report* to BIS, no later than December 1, 2008 (see supplement no. 1 to this part), if you were engaged in any of the civil nuclear fuel cycle-related activities described in this paragraph (a) on October 31, 2008 or you were engaged in any such activities involving uranium hard-rock mines, including those that were closed down during calendar year 2008, (up to and including October 31, 2008). If you commenced any of the civil nuclear fuel cycle-related activities described in this paragraph (a) after October 31, 2008, you must submit an *Initial Report* on these activities to BIS no later than January 31 of the year following the calendar year in which the activities commenced (see supplement no. 1 to this part). You may report these activities as part of your *Annual Update Report*, in lieu of submitting a separate *Initial Report*, if you also have an *Annual Update Report* requirement that applies to the same location and covers the same reporting period (see paragraph (b) of this section). In order to satisfy the *Initial Report* requirements under this paragraph (a), you must complete and submit to BIS Form AP–1, Form AP–2, and other appropriate Forms, as provided in this paragraph (a).

(1) *Research and development activities not involving nuclear material.* You must report to BIS any of the civil nuclear fuel cycle-related research and development activities identified in paragraphs (a)(1)(i) and (a)(1)(ii) of this section. Activities subject to these APR reporting requirements include research and development activities related to safe equipment operations for a nuclear fuel cycle-related activity, but do not include activities related to theoretical or basic scientific research or to research and development on industrial radioisotope applications, medical, hydrological and agricultural applications, health and environmental effects and improved maintenance.

(i) You must complete Form AP–3 and submit it to BIS, as provided in § 782.6 of the APR, if you conducted any civil nuclear fuel cycle-related research and development activities defined in § 781.1 of the APR that:

(A) Did not involve nuclear material; and

(B) Were funded, specifically authorized or controlled by, or conducted on behalf of, the United States.

(ii) You must complete Form AP–4 and submit it to BIS, as provided in § 782.6 of the APR, if you conducted any civil nuclear fuel cycle-related research and development activities defined in § 781.1 of the APR that:

(A) Did not involve nuclear material;

(B) Were specifically related to enrichment, reprocessing of nuclear fuel, or the processing of intermediate or high-level waste containing plutonium, high enriched uranium or uranium-233 (where ''processing'' involves the separation of elements); and

(C) Were not funded, specifically authorized or controlled by, or conducted on behalf of, the United States.

(2) *Civil nuclear-related manufacturing, assembly or construction activities.* You must complete Form AP–5 and submit it to BIS, as provided in § 782.6 of the APR, if you engaged in any of the activities specified in supplement no. 2 to this part.

(3) *Uranium hard-rock mining and ore beneficiation activities.* You must complete Form AP–6 and submit it to BIS, as provided in § 782.6 of the APR, if your location is either a uranium hard-rock mine or an ore beneficiation plant that was in operating or suspended status (see § 781.1 of the APR for the definitions of ''uranium hard-rock mine'' and uranium hard-rock mines in ''operating,'' ''suspended,'' or ''closed-down'' status).

(i) The *Initial Report* requirement for calendar year 2008 applies to:

(A) Uranium hard-rock mines or ore beneficiation plants that were in operating or suspended status on October 31, 2008; and

(B) Uranium hard-rock mines that have changed from operating or suspended status to closed-down status during calendar year 2008 (up to and including October 31, 2008). Mines that were closed down prior to calendar year 2008 and that remain in closed-down status do not have a reporting requirement.

(ii) You are required to submit an *Initial Report* to BIS, for any calendar year that follows calendar year 2008, only if you commenced operations at a uranium hard-rock mine or an ore beneficiation plant during the previous calendar year (e.g., the commencement of operations would include, but not be limited to, the resumption of operations at a mine that was previously in ''closed-down'' status). Otherwise, see the *Annual Update Report and No Changes Report* requirements in paragraphs (b)(1) or (b)(2) of this section. For example, you must submit an *Annual Update Report* to indicate the closed-down status of any uranium hard-rock mine that was indicated in your most recent report to be in either operating or suspended status, but at which you ceased operations during the previous calendar year.

(b) *Annual reporting requirements.* You must submit either an *Annual Update Report* or a *No Changes Report* to BIS, as provided in § 782.6 of the APR, if, during the previous calendar year, you continued to engage in civil nuclear fuel cycle-related activities at a location for which you submitted an *Initial Report* to BIS in accordance with the APR reporting requirements described in paragraph (a) of this section.

(1) *Annual Update Report.* You must submit an *Annual Update Report* to BIS if you have updates or changes to report concerning your location's activities during the previous calendar year. When preparing your *Annual Update Report*, you must complete the same report forms that you used for submitting your *Initial Report* on these activities. However, additional report forms will be required if your location engaged in any civil nuclear fuel cycle-related activities described in paragraph (a) of this section that you did not previously report to BIS. The appropriate report forms for each type of activity that must be reported under the APR are identified in paragraphs (a)(1) through (a)(3) of this section. You must submit your *Annual Update Report* to BIS no later than January 31 of the year following any calendar year in which the activities took place or there were changes to previously ''reported'' activities (see supplement no. 1 to this part).

(2) *No Changes Report.* You may submit a *No Changes Report*, in lieu of an *Annual Update Report*, if you have no updates or changes concerning your location's activities (except the certifying official and dates signed and submitted) since your most recent report of activities to BIS. In order to satisfy the reporting requirements under this paragraph (b)(2), you must complete Form AP–16 and submit it to BIS, as provided in § 782.6 of the APR, no later than January 31 of the year following any calendar year in which there were no changes to previously ''reported'' activities or location information (see supplement no. 1 to this part).

(3) *Additional guidance on annual reporting requirements.* (i) If your *Initial Report* or your most recent *Annual Update Report* for a location indicates that all civil nuclear fuel cycle-related activities described therein have ceased at that location, and no other reportable activities have occurred during

the previous calendar year, then you do not have a reporting requirement for the location under paragraph (b) of this section.

(ii) If your location ceases to engage in activities subject to the APR reporting requirements described in paragraph (a) of this section, and you have not previously reported this to BIS, you must submit an *Annual Update Report* covering the calendar year in which you ceased to engage in such activities.

(iii) Closed-down mines should be reported only once.

(c) *Import Confirmation Report*. You must complete Forms AP–1, AP–2 and AP–14 for each import of equipment or non-nuclear material identified in supplement no. 3 to this part and submit these forms to BIS, as provided in § 782.6 of the APR, if BIS sends you written notification requiring that you provide information concerning imports of such equipment and non-nuclear material. These Forms must be submitted within 30 calendar days of the date that you receive written notification of this requirement from BIS (see supplement no. 1 to this part). BIS will provide such notification when it receives a request from the IAEA for information concerning imports of this type of equipment or non-nuclear material. The IAEA may request this information to verify that you received specified equipment or non-nuclear material that was shipped to you by a person, organization, or government from a foreign country.

(d) *Supplemental Information Report*. You must complete Forms AP–1, AP–2 and AP–15 and submit them to BIS, as provided in § 782.6 of the APR, if BIS sends you written notification requiring that you provide information about the activities conducted at your location, insofar as relevant for the purpose of safeguards. These Forms must be submitted within 15 calendar days of the date that you receive written notification of this requirement from BIS (see supplement no. 1 to this part). BIS will provide such notification only if the IAEA specifically requests amplification or clarification concerning any information provided in the U.S. Declaration based on your report(s).

(e) *Reportable location*. A location that must submit an *Initial Report, Annual Update Report, or No Changes Report* to BIS, pursuant to the requirements of this section, is considered to be a reportable location with declared activities.

§ 783.2 Amended reports.

In order for BIS to maintain accurate information on previously submitted reports, including information necessary for BIS to facilitate complementary access notifications or to communicate reporting requirements under the APR, *Amended Reports* are required under the circumstances described in paragraphs (a), (b), and (d) of this section. This section applies only to changes affecting *Initial Reports* and *Annual Update Reports* that were submitted to BIS in accordance with the requirements of § 783.1(a) and (b) of the APR. The specific report forms that you must use to prepare and submit an *Amended Report* will depend upon the type of information that you are required to provide, pursuant to this section.

(a) *Changes to activity information*. You must submit an *Amended Report* to BIS within 30 calendar days of the time that you discover an error or omission in your most recent *Initial Report* or *Annual Update Report* that involves information concerning an activity subject to the reporting requirements described in § 783.1(a) or (b) of the APR. Use Form AP–1, and any applicable report forms indicated for the activities identified in § 783.1(a) of the APR, to prepare your *Amended Report*. Submit your *Amended Report* to BIS, as provided in § 782.6 of the APR.

(b) *Changes to organization and location information that must be maintained by BIS*—(1) *Internal organization changes*. You must submit an *Amended Report* to BIS within 30 calendar days of any change in the following information (use Form AP–1 to prepare your *Amended Report* and submit it to BIS, as provided in § 782.6 of the APR):

(i) Name of report point of contact (R–POC), including telephone number, facsimile number, and e-mail address;

(ii) Name(s) of complementary access point(s) of contact (A–POC), including

telephone number(s), facsimile number(s) and e-mail address(es);

(iii) Organization name;

(iv) Organization mailing address;

(v) Location owner, including telephone number, and facsimile number; or

(vi) Location operator, including telephone number, and facsimile number.

(2) *Change in ownership of organization*. You must submit an *Amended Report* to BIS if you sold a reportable location or if your reportable location went out of business since submitting your most recent *Initial Report*, *Annual Update Report*, or *No Changes Report* to BIS. You must also submit an *Amended Report* to BIS if you purchased a reportable location that submitted an *Initial Report*, *Annual Update Report*, or *No Changes Report* to BIS for the most recent reporting period, as specified in § 783.1(a) and (b) of the APR. Submit your *Amended Report* to BIS, as provided in § 782.6 of the APR, either before the effective date of the change in ownership or within 30 calendar days after the effective date of the change.

(i) The following information must be included in an *Amended Report* submitted to BIS by an organization that is selling or that has sold a reportable location (use Forms AP–1 and AP–16 to prepare your *Amended Report*—address specific details regarding the sale of a reportable location in Form AP–16):

(A) Name of seller (i.e., name of the organization selling a reportable location);

(B) Reporting Code (this code will be assigned to your location and reported to you by BIS after receipt of your *Initial Report*);

(C) Name of purchaser (i.e., name of the new organization/owner purchasing a reportable location) and name and address of contact person for the purchaser, if known;

(D) Date of ownership transfer or change;

(E) Additional details on the sale of the reportable location relevant to ownership or operational control over any portion of the reportable location (e.g., whether the entire location or only a portion of the reportable location has been sold to a new owner); and

(F) Details regarding whether the new owner of a reportable location will submit the next report for the entire calendar year in which the ownership change occurred, or whether the previous owner and new owner will submit separate reports for the periods of the calendar year during which each owned the reportable location.

(ii) The following information must be included in an *Amended Report* submitted to BIS by an organization that is purchasing or that has purchased a reportable location (use Forms AP–1 and AP–2 to prepare your *Amended Report*):

(A) Name of purchaser (i.e., name of the new organization/owner purchasing a reportable location) and name and address of contact person for the purchaser;

(B) Details on the purchase of the reportable location relevant to ownership or operational control over any portion of the reportable location (e.g., whether the purchaser intends to purchase and to maintain operational control over the entire location or only a portion of the reportable location); and

(C) Details on whether the purchaser intends to continue existing civil nuclear fuel cycle-related activities at the reportable location or to cease such activities during the current reporting period.

(iii) If the new owner of a reportable location is responsible for submitting a report that covers the entire calendar year in which the ownership change occurred, the new owner must obtain and maintain possession of the location's records covering the entire year, including those records for the period of the year during which the previous owner still owned the property.

NOTE 1 TO § 783.2(b): *Amended Reports* that are submitted to identify changes involving internal organization information or changes in ownership are used only for internal U.S. Government purposes and are not forwarded to the IAEA. BIS uses the information it obtains from *Amended Reports* to update contact information for internal oversight purposes and for IAEA complementary access notifications.

NOTE 2 TO § 783.2(b): For ownership changes, the reportable location will maintain its original Reporting Code, unless the location is sold to multiple owners, at which time BIS will assign a new Reporting Code.

(c) *Non-substantive changes.* If you discover one or more non-substantive typographical errors in your *Initial Report* or *Annual Update Report*, after submitting the report to BIS, you are not required to submit an *Amended Report* to BIS. Instead, you may correct these errors when you submit your next *Annual Update Report* to BIS.

(d) *Amendments related to complementary access.* If you are required to submit an *Amended Report* to BIS following the completion of complementary access (see Part 784 of the APR), BIS will notify you, in writing, of the information that must be amended pursuant to § 784.6 of the APR. Complete and submit Form AP–1 (organization information) and/or the specific report forms required by section 783.1(a) or (b) of the APR, according to the type(s) of activities for which information is being requested. You must submit your *Amended Report* to BIS, as provided in § 782.6 of the APR, no later than 30 calendar days following your receipt of BIS's post complementary access letter.

(e) *Option for submitting amended reports in letter form.* If you are required to submit an *Amended Report* to BIS, pursuant to paragraph (a), (b), or (d) of this section, BIS may permit you to submit your report in the form of a letter that contains all of the corrected information required under this section. Your letter must be submitted to BIS, at the address indicated in § 782.6 of the APR, no later than the applicable due date(s) indicated in this section (also see supplement no. 1 to this part).

§ 783.3 Reports containing information determined by BIS not to be required by the APR.

If you submit a report and BIS determines that none of the information contained therein is required by the APR, BIS will not process the report and will notify you, either electronically or in writing, explaining the basis for its decision. BIS will not maintain any record of the report. However, BIS will maintain a copy of the notification.

§ 783.4 Deadlines for submission of reports and amendments.

Reports and amendments required under this part must be postmarked by the appropriate date identified in supplement no. 1 to this part 783. Required reports and amendments include those identified in paragraphs (a) through (g) of this section.

(a) *Initial Report:* Submitted by a location that commenced one or more of the civil nuclear fuel cycle-related activities described in § 783.1(a) of the APR during the previous calendar year, but that has not yet reported such activities to BIS. However, *Initial Reports* that are submitted to BIS during calendar year 2008 must describe only those activities in which you are engaged as of October 31, 2008, *except that* the description of activities involving uranium hard-rock mines must include any such mines that were closed down during calendar year 2008 (up to and including October 31, 2008), as well as mines that were in either operating or suspended status on October 31, 2008 (see § 783.1(a)(3)(i) of the APR).

(b) *Annual Update Report:* Submitted by a reportable location—this report describes changes to previously reported (i.e., declared) activities and any other reportable civil nuclear fuel cycle-related activities that took place at the location during the previous calendar year.

(c) *No Changes Report:* Submitted by a reportable location, in lieu of an *Annual Update Report*, when there are no updates or changes to any information, excluding the certifying official and dates signed and submitted, since the previous report submitted by that location.

(d) *Import Confirmation Report:* Submitted in response to a written notification from BIS, following a specific request by the IAEA.

(e) *Supplemental Information Report:* Submitted in response to a written notification from BIS, following a specific request by the IAEA.

(f) *Amended Report:* Submitted by a reportable location to report certain changes affecting the location's most recent *Initial Report* or *Annual Update Report*.

SUPPLEMENT NO. 1 TO PART 783—DEADLINES FOR SUBMISSION OF REPORTS AND AMENDMENTS

Reports	Applicable forms	Due dates
Initial Report	Forms AP–1 and AP–2 and: —AP–3 or AP–4 for R&D activities; —AP–5 for civil nuclear-related manufacturing, assembly or construction; and. —AP–6 for mining and ore beneficiation	December 1, 2008 for: (1) Any activities in which you were engaged on October 31, 2008 and (2) uranium hard-rock mines that have changed from operating or suspended status to closed-down status during calendar year 2008 (up to and including October 31, 2008). For activities commencing after October 31, 2008, *Initial Reports* must be submitted no later than January 31 of the year following any calendar year in which the activities began, *unless* you are required to submit an *Annual Update Report* because of on-going previously ''reported'' activities at the same location—in that case, you may include the new activities in your *Annual Update Report,* instead of submitting a separate *Initial Report.*
Annual Update Report	Forms AP–1 and AP–2 and: —AP–3 or AP–4 for R&D activities; —AP–5 for civil nuclear-related manufacturing, assembly or construction; and. —AP–6 for mining and ore beneficiation.	January 31 of the year following any calendar year in which the activities took place or there were changes to previously ''reported'' activities.
No Changes Report	Form AP–17	January 31 of the year following any calendar year in which there were no changes to previously ''reported'' activities or location information.
Import Confirmation Report.	Forms AP–1, AP–2, and AP–14	Within 30 calendar days of receiving notification from BIS.
Supplemental Information Report.	Forms AP–1, AP–2, and AP–15	Within 15 calendar days of receiving notification from BIS.
Amended Report: —Report information —Organization and location information. —Complementary access letter.	Form AP–1 and appropriate forms, as specified in § 783.1 of the APR, for the type of report being amended.	Amended report due: —30 calendar days after you discover an error or omission in activity information contained in your most recent report. —30 calendar days after a change in company information or ownership of a location. —30 calendar days after receipt of a post-complementary access letter from BIS.

SUPPLEMENT NO. 2 TO PART 783—MANUFACTURING ACTIVITIES

The following constitute manufacturing activities that require the submission of a report to BIS, pursuant to § 783.1(a)(2) of the APR.

(1) The manufacture of *centrifuge rotor tubes* or the assembly of *gas centrifuges*. *Centrifuge rotor tubes* means thin-walled cylinders as described in section 5.1.1(b) of supplement no. 3 to this part. *Gas centrifuges* means centrifuges as described in the Introductory Note to section 5.1 of supplement no. 3 to this part.

(2) The manufacture of *diffusion barriers*. *Diffusion barriers* means thin, porous filters as described in section 5.3.1(a) of supplement no. 3 to this part.

(3) The manufacture or assembly of *laser-based systems*. *Laser-based systems* means systems incorporating those items as described in section 5.7 of supplement no. 3 to this part.

(4) The manufacture or assembly of *electromagnetic isotope separators*. *Electromagnetic isotope separators* means those items referred to in Section 5.9.1 of supplement no. 3 to this part containing ion sources as described in section 5.9.1(a) of supplement no. 3 to this part.

(5) The manufacture or assembly of *columns* or *extraction equipment*. *Columns* or *extraction equipment* means those items as described in sections 5.6.1, 5.6.2, 5.6.3, 5.6.5, 5.6.6, 5.6.7, and 5.6.8 of supplement no. 3 to this part.

(6) The manufacture of *aerodynamic separation nozzles* or *vortex tubes*. *Aerodynamic separation nozzles* or *vortex tubes* means separation nozzles and vortex tubes as described, respectively, in sections 5.5.1 and 5.5.2 of supplement no. 3 to this part.

(7) The manufacture or assembly of *uranium plasma generation systems*. *Uranium plasma generation systems* means systems for the generation of uranium plasma as described in section 5.8.3 of supplement no. 3 to this part.

(8) The manufacture of *zirconium tubes*. *zirconium tubes* means tubes as described in section 1.6 of supplement no. 3 to this part.

(9) The manufacture or upgrading of *heavy water or deuterium*. *Heavy water or deuterium* means deuterium, heavy water (deuterium oxide) and any other deuterium compound in which the ratio of deuterium to hydrogen atoms exceeds 1:5000.

(10) The manufacture of *nuclear grade graphite*. *Nuclear grade graphite* means graphite having a purity level better than 5 parts per million boron equivalent and with a density greater than 1.50 g/cm^3;

(11) The manufacture of *flasks for irradiated fuel*. A *flask for irradiated fuel* means a vessel for the transportation and/or storage of irradiated fuel that provides chemical, thermal and radiological protection, and dissipates decay heat during handling, transportation and storage.

(12) The manufacture of *reactor control rods*. *Reactor control rods* means rods as described in section 1.4 of supplement no. 3 to this part.

(13) The manufacture of *critically safe tanks and vessels*. *Critically safe tanks and vessels* means those items as described in sections 3.2 and 3.4 of supplement no. 3 to this part.

(14) The manufacture of *irradiated fuel element chopping machines*. *Irradiated fuel element chopping machines* means equipment as described in section 3.1 of supplement no. 3 to this part.

(15) The construction of *hot cells*. *Hot cells* means a cell or interconnected cells totaling at least 6 cubic meters in volume with shielding equal to or greater than the equivalent of 0.5 meters of concrete, with a density of 3.2 g/cm^3 or greater, outfitted with equipment for remote operations.

SUPPLEMENT NO. 3 TO PART 783—LIST OF SPECIFIED EQUIPMENT AND NON-NUCLEAR MATERIAL FOR THE REPORTING OF IMPORTS

1. REACTORS AND EQUIPMENT THEREFOR

1.1. COMPLETE NUCLEAR REACTORS

Nuclear reactors capable of operation so as to maintain a controlled self-sustaining fission chain reaction, excluding zero energy reactors, the latter being defined as reactors with a designed maximum rate of production of plutonium not exceeding 100 grams per year.

EXPLANATORY NOTE: A ''nuclear reactor'' basically includes the items within or attached directly to the reactor vessel, the equipment which controls the level of power in the core, and the components which normally contain or come in direct contact with or control the primary coolant of the reactor core. It is not intended to exclude reactors which could reasonably be capable of modification to produce significantly more than 100 grams of plutonium per year. Reactors designed for sustained operation at significant power levels, regardless of their capacity for plutonium production, are not considered as ''zero energy reactors.''

1.2. REACTOR PRESSURE VESSELS

Metal vessels, as complete units or as major shop-fabricated parts therefor, which are specially designed or prepared to contain the core of a nuclear reactor, as defined in section 1.1, and are capable of withstanding the operating pressure of the primary coolant.

EXPLANATORY NOTE: This is the list that the IAEA Board of Governors agreed at its meeting on 24 February 1993 would be used for the purpose of the voluntary reporting scheme, as subsequently amended by the Board. A top plate for a reactor pressure vessel is covered by this section 1.2 as a major shop-fabricated part of a pressure vessel. Reactor internals (e.g., support columns and plates for the core and other vessel internals, control rod guide tubes, thermal shields, baffles, core grid plates, diffuser plates, etc.) are normally supplied by the reactor supplier. In some cases, certain internal support components are included in the fabrication of the pressure vessel. These items are sufficiently critical to the safety and reliability of the operation of the reactor (and, therefore, to the guarantees and liability of the reactor supplier), so that their supply, outside the basic supply arrangement for the reactor itself, would not be common practice. Therefore, although the separate supply of these unique, specially designed and prepared, critical, large and expensive items would not necessarily be considered as falling outside the area of concern, such a mode of supply is considered unlikely.

1.3. REACTOR FUEL CHARGING AND DISCHARGING MACHINES

Manipulative equipment specially designed or prepared for inserting or removing fuel in a nuclear reactor, as defined in section 1.1 of this Supplement, capable of on-load operation or employing technically sophisticated positioning or alignment features to allow complex off-load fueling operations such as those in which direct viewing of or access to the fuel is not normally available.

1.4. REACTOR CONTROL RODS

Rods specially designed or prepared for the control of the reaction rate in a nuclear reactor as defined in section 1.1 of this Supplement.

EXPLANATORY NOTE: This item includes, in addition to the neutron absorbing part, the support or suspension structures therefor if supplied separately.

1.5. REACTOR PRESSURE TUBES

Tubes which are specially designed or prepared to contain fuel elements and the primary coolant in a reactor, as defined in section 1.1 of this supplement, at an operating pressure in excess of 5.1 MPa (740 psi).

1.6. ZIRCONIUM TUBES

Zirconium metal and alloys in the form of tubes or assemblies of tubes, and in quantities exceeding 500 kg in any period of 12 months, specially designed or prepared for use in a reactor, as defined in section 1.1 of this supplement, and in which the relation of hafnium to zirconium is less than 1:500 parts by weight.

1.7. PRIMARY COOLANT PUMPS

Pumps specially designed or prepared for circulating the primary coolant for nuclear reactors, as defined in section 1.1 of this Supplement.

EXPLANATORY NOTE: Specially designed or prepared pumps may include elaborate sealed or multi-sealed systems to prevent leakage of primary coolant, canned-driven pumps, and pumps with inertial mass systems. This definition encompasses pumps certified to NC–1 or equivalent standards.

2. NON-NUCLEAR MATERIALS FOR REACTORS

2.1. DEUTERIUM AND HEAVY WATER

Deuterium, heavy water (deuterium oxide) and any other deuterium compound in which the ratio of deuterium to hydrogen atoms exceeds 1:5000 for use in a nuclear reactor, as defined in section 1.1 of this supplement, in quantities exceeding 200 kg of deuterium atoms for any one recipient country in any period of 12 months.

2.2. NUCLEAR GRADE GRAPHITE

Graphite having a purity level better than 5 parts per million boron equivalent and with a density greater than 1.50 g/cm^3 for use in a nuclear reactor, as defined in section 1.1 of this Supplement, in quantities exceeding 3×10^4 kg (30 metric tons) for any one recipient country in any period of 12 months.

NOTE: For the purpose of reporting, the Government will determine whether or not the exports of graphite meeting the specifications of this section 2.2 are for nuclear reactor use.

3. PLANTS FOR THE REPROCESSING OF IRRADIATED FUEL ELEMENTS, AND EQUIPMENT SPECIALLY DESIGNED OR PREPARED THEREFOR

INTRODUCTORY NOTE: Reprocessing irradiated nuclear fuel separates plutonium and uranium from intensely radioactive fission products and other transuranic elements. Different technical processes can accomplish this separation. However, over the years Purex has become the most commonly used and accepted process. Purex involves the dissolution of irradiated nuclear fuel in nitric acid, followed by separation of the uranium, plutonium, and fission products by solvent extraction using a mixture of tributyl phosphate in an organic diluent. Purex facilities have process functions similar to each other, including: Irradiated fuel element chopping, fuel dissolution, solvent extraction, and process liquor storage. There may also be equipment for thermal denitration of uranium nitrate, conversion of plutonium nitrate to oxide or metal, and treatment of fission product waste liquor to a form suitable for long term storage or disposal. However, the specific type and configuration of the equipment performing these functions may differ between Purex facilities for several reasons, including the type and quantity of irradiated nuclear fuel to be reprocessed and the intended disposition of the recovered materials, and the safety and maintenance philosophy incorporated into the design of the facility. A ''plant for the reprocessing of irradiated fuel elements'' includes the equipment and components which normally come in direct contact with and directly control the irradiated fuel and the major nuclear material and fission product processing streams. These processes, including the complete systems for plutonium conversion and plutonium metal production, may be identified by the measures taken to avoid criticality (e.g., by geometry), radiation exposure (e.g., by shielding), and toxicity hazards (e.g., by containment). Items of equipment that are considered to fall within the meaning of the phrase ''and equipment specially designed or prepared'' for the reprocessing of irradiated fuel elements include:

3.1. IRRADIATED FUEL ELEMENT CHOPPING MACHINES

INTRODUCTORY NOTE: This equipment breaches the cladding of the fuel to expose the irradiated nuclear material to dissolution. Specially designed metal cutting shears are the most commonly employed, although advanced equipment, such as lasers, may be used. Remotely operated equipment specially designed or prepared for use in a reprocessing plant, as identified in the introductory paragraph of this section, and intended to cut, chop or shear irradiated nuclear fuel assemblies, bundles or rods.

3.2. DISSOLVERS

INTRODUCTORY NOTE: Dissolvers normally receive the chopped-up spent fuel. In these critically safe vessels, the irradiated nuclear material is dissolved in nitric acid and the remaining hulls removed from the process stream. Critically safe tanks (*e.g.*, small diameter, annular or slab tanks) specially designed or prepared for use in a reprocessing

plant, as identified in the introductory paragraph of this section, intended for dissolution of irradiated nuclear fuel and which are capable of withstanding hot, highly corrosive liquid, and which can be remotely loaded and maintained.

3.3. SOLVENT EXTRACTORS AND SOLVENT EXTRACTION EQUIPMENT

INTRODUCTORY NOTE: Solvent extractors both receive the solution of irradiated fuel from the dissolvers and the organic solution which separates the uranium, plutonium, and fission products. Solvent extraction equipment is normally designed to meet strict operating parameters, such as long operating lifetimes with no maintenance requirements or adaptability to easy replacement, simplicity of operation and control, and flexibility for variations in process conditions. Specially designed or prepared solvent extractors such as packed or pulse columns, mixer settlers or centrifugal contactors for use in a plant for the reprocessing of irradiated fuel. Solvent extractors must be resistant to the corrosive effect of nitric acid. Solvent extractors are normally fabricated to extremely high standards (including special welding and inspection and quality assurance and quality control techniques) out of low carbon stainless steels, titanium, zirconium, or other high quality materials.

3.4. CHEMICAL HOLDING OR STORAGE VESSELS

INTRODUCTORY NOTE: Three main process liquor streams result from the solvent extraction step. Holding or storage vessels are used in the further processing of all three streams, as follows:

(a) The pure uranium nitrate solution is concentrated by evaporation and passed to a denitration process where it is converted to uranium oxide. This oxide is re-used in the nuclear fuel cycle.

(b) The intensely radioactive fission products solution is normally concentrated by evaporation and stored as a liquor concentrate. This concentrate may be subsequently evaporated and converted to a form suitable for storage or disposal.

(c) The pure plutonium nitrate solution is concentrated and stored pending its transfer to further process steps. In particular, holding or storage vessels for plutonium solutions are designed to avoid criticality problems resulting from changes in concentration and form of this stream. Specially designed or prepared holding or storage vessels for use in a plant for the reprocessing of irradiated fuel. The holding or storage vessels must be resistant to the corrosive effect of nitric acid. The holding or storage vessels are normally fabricated of materials such as low carbon stainless steels, titanium or zirconium, or other high quality materials. Holding or storage vessels may be designed for remote operation and maintenance and may have the following features for control of nuclear criticality: (1) Walls or internal structures with a boron equivalent of at least two percent; (2) a maximum diameter of 175 mm (7 in) for cylindrical vessels; or (3) a maximum width of 75 mm (3 in) for either a slab or annular vessel.

3.5. PLUTONIUM NITRATE TO OXIDE CONVERSION SYSTEM

INTRODUCTORY NOTE: In most reprocessing facilities, this final process involves the conversion of the plutonium nitrate solution to plutonium dioxide. The main functions involved in this process are: process feed storage and adjustment, precipitation and solid/liquor separation, calcination, product handling, ventilation, waste management, and process control. Complete systems specially designed or prepared for the conversion of plutonium nitrate to plutonium oxide, in particular adapted so as to avoid criticality and radiation effects and to minimize toxicity hazards.

3.6. PLUTONIUM OXIDE TO METAL PRODUCTION SYSTEM

INTRODUCTORY NOTE: This process, which could be related to a reprocessing facility, involves the fluorination of plutonium dioxide, normally with highly corrosive hydrogen fluoride, to produce plutonium fluoride which is subsequently reduced using high purity calcium metal to produce metallic plutonium and a calcium fluoride slag. The main functions involved in this process are: fluorination (e.g., involving equipment fabricated or lined with a precious metal), metal reduction (e.g., employing ceramic crucibles), slag recovery, product handling, ventilation, waste management and process control. Complete systems specially designed or prepared for the production of plutonium metal, in particular adapted so as to avoid criticality and radiation effects and to minimize toxicity hazards.

4. PLANTS FOR THE FABRICATION OF FUEL ELEMENTS

A ''plant for the fabrication of fuel elements'' includes the equipment:

(a) Which normally comes in direct contact with, or directly processes, or controls, the production flow of nuclear material, or

(b) Which seals the nuclear material within the cladding.

5. PLANTS FOR THE SEPARATION OF ISOTOPES OF URANIUM AND EQUIPMENT, OTHER THAN ANALYTICAL INSTRUMENTS, SPECIALLY DESIGNED OR PREPARED THEREFOR

Items of equipment that are considered to fall within the meaning of the phrase

''equipment, other than analytical instruments, specially designed or prepared'' for the separation of isotopes of uranium include:

5.1. GAS CENTRIFUGES AND ASSEMBLIES AND COMPONENTS SPECIALLY DESIGNED OR PREPARED FOR USE IN GAS CENTRIFUGES

INTRODUCTORY NOTE: The gas centrifuge normally consists of a thin-walled cylinder(s) of between 75 mm (3 in) and 400 mm (16 in) diameter contained in a vacuum environment and spun at high peripheral speed of the order of 300 m/s or more with its central axis vertical. In order to achieve high speed the materials of construction for the rotating components have to be of a high strength to density ratio and the rotor assembly, and hence its individual components, have to be manufactured to very close tolerances in order to minimize the unbalance. In contrast to other centrifuges, the gas centrifuge for uranium enrichment is characterized by having within the rotor chamber a rotating disc-shaped baffle(s) and a stationary tube arrangement for feeding and extracting the UF_6 gas and featuring at least 3 separate channels, of which 2 are connected to scoops extending from the rotor axis towards the periphery of the rotor chamber. Also contained within the vacuum environment are a number of critical items which do not rotate and which although they are specially designed are not difficult to fabricate nor are they fabricated out of unique materials. A centrifuge facility however requires a large number of these components, so that quantities can provide an important indication of end use.

5.1.1. ROTATING COMPONENTS

(a) *Complete rotor assemblies:* Thin-walled cylinders, or a number of interconnected thin-walled cylinders, manufactured from one or more of the high strength to density ratio materials described in the *Explanatory Note* to section 5.1.1 of this supplement. If interconnected, the cylinders are joined together by flexible bellows or rings as described in section 5.1.1(c) of this supplement. The rotor is fitted with an internal baffle(s) and end caps, as described in section 5.1.1(d) and (e) of this supplement, if in final form. However the complete assembly may be delivered only partly assembled.

(b) *Rotor tubes:* Specially designed or prepared thin-walled cylinders with thickness of 12 mm (0.5 in) or less, a diameter of between 75 mm (3 in) and 400 mm (16 in), and manufactured from one or more of the high strength to density ratio materials described in the *Explanatory Note* to section 5.1.1 of this supplement.

(c) *Rings or Bellows:* Components specially designed or prepared to give localized support to the rotor tube or to join together a number of rotor tubes. The bellows is a short cylinder of wall thickness 3 mm (0.12 in) or less, a diameter of between 75 mm (3 in) and 400 mm (16 in), having a convolute, and manufactured from one of the high strength to density ratio materials described in the *Explanatory Note* to section 5.1.1 of this supplement.

(d) *Baffles:* Disc-shaped components of between 75 mm (3 in) and 400 mm (16 in) diameter specially designed or prepared to be mounted inside the centrifuge rotor tube, in order to isolate the take-off chamber from the main separation chamber and, in some cases, to assist the UF_6 gas circulation within the main separation chamber of the rotor tube, and manufactured from one of the high strength to density ratio materials described in the *Explanatory Note* to section 5.1.1 of this supplement.

(e) *Top caps/Bottom caps:* Disc-shaped components of between 75 mm (3 in) and 400 mm (16 in) diameter specially designed or prepared to fit to the ends of the rotor tube, and so contain the UF_6 within the rotor tube, and in some cases to support, retain or contain as an integrated part an element of the upper bearing (top cap) or to carry the rotating elements of the motor and lower bearing (bottom cap), and manufactured from one of the high strength to density ratio materials described in the *Explanatory Note* to section 5.1.1 of this supplement.

EXPLANATORY NOTE: The materials used for centrifuge rotating components are:

(a) Maraging steel capable of an ultimate tensile strength of 2.05×10^9 N/m^2 (300,000 psi) or more;

(b) Aluminum alloys capable of an ultimate tensile strength of 0.46×10^9 N/m^2 (67,000 psi) or more;

(c) Filamentary materials suitable for use in composite structures and having a specific modulus of 12.3×10^6 m or greater and a specific ultimate tensile strength of 0.3×10^6 m or greater (''Specific Modulus'' is the Young's Modulus in N/m^2 divided by the specific weight in N/m^3; ''Specific Ultimate Tensile Strength'' is the ultimate tensile strength in N/m^2 divided by the specific weight in N/m^3).

5.1.2. STATIC COMPONENTS

(a) *Magnetic suspension bearings:* Specially designed or prepared bearing assemblies consisting of an annular magnet suspended within a housing containing a damping medium. The housing will be manufactured from a UF_6-resistant material (see *Explanatory Note* to section 5.2 of this supplement). The magnet couples with a pole piece or a second magnet fitted to the top cap described in section 5.1.1(e) of this Supplement. The magnet may be ring-shaped with a relation between outer and inner diameter smaller or equal to 1.6:1. The magnet may be in a form having an initial permeability of

0.15 H/m (120,000 in CGS units) or more, or a remanence of 98.5% or more, or an energy product of greater than 80 kJ/m^3 (10^7 gauss-oersteds). In addition to the usual material properties, it is a prerequisite that the deviation of the magnetic axes from the geometrical axes is limited to very small tolerances (lower than 0.1 mm or 0.004 in) or that homogeneity of the material of the magnet is specially called for.

(b) *Bearings/Dampers:* Specially designed or prepared bearings comprising a pivot/cup assembly mounted on a damper. The pivot is normally a hardened steel shaft with a hemisphere at one end with a means of attachment to the bottom cap, described in section 5.1.1(e) of this Supplement, at the other. The shaft may however have a hydrodynamic bearing attached. The cup is pellet-shaped with a hemispherical indentation in one surface. These components are often supplied separately to the damper.

(c) *Molecular pumps:* Specially designed or prepared cylinders having internally machined or extruded helical grooves and internally machined bores. Typical dimensions are as follows: 75 mm (3 in) to 400 mm (16 in) internal diameter, 10 mm (0.4 in) or more wall thickness, with the length equal to or greater than the diameter. The grooves are typically rectangular in cross-section and 2 mm (0.08 in) or more in depth.

(d) *Motor stators:* Specially designed or prepared ring-shaped stators for high speed multiphase AC hysteresis (or reluctance) motors for synchronous operation within a vacuum in the frequency range of 600–2000 Hz and a power range of 50–1000 VA. The stators consist of multi-phase windings on a laminated low loss iron core comprised of thin layers typically 2.0 mm (0.08 in) thick or less.

(e) *Centrifuge housing/recipients:* Components specially designed or prepared to contain the rotor tube assembly of a gas centrifuge. The housing consists of a rigid cylinder of wall thickness up to 30 mm (1.2 in) with precision machined ends to locate the bearings and with one or more flanges for mounting. The machined ends are parallel to each other and perpendicular to the cylinder's longitudinal axis to within 0.05 degrees or less. The housing may also be a honeycomb type structure to accommodate several rotor tubes. The housings are made of or protected by materials resistant to corrosion by UF6.

(f) *Scoops:* Specially designed or prepared tubes of up to 12 mm (0.5 in) internal diameter for the extraction of UF6 gas from within the rotor tube by a Pitot tube action (that is, with an aperture facing into the circumferential gas flow within the rotor tube, for example by bending the end of a radially disposed tube) and capable of being fixed to the central gas extraction system. The tubes are made of or protected by materials resistant to corrosion by UF6.

5.2. SPECIALLY DESIGNED OR PREPARED AUXILIARY SYSTEMS, EQUIPMENT AND COMPONENTS FOR GAS CENTRIFUGE ENRICHMENT PLANTS

INTRODUCTORY NOTE: The auxiliary systems, equipment and components for a gas centrifuge enrichment plant are the systems of plant needed to feed UF6 to the centrifuges, to link the individual centrifuges to each other to form cascades (or stages) to allow for progressively higher enrichments and to extract the ''product'' and ''tails'' UF6 from the centrifuges, together with the equipment required to drive the centrifuges or to control the plant. Normally UF_6 is evaporated from the solid using heated autoclaves and is distributed in gaseous form to the centrifuges by way of cascade header pipework. The ''product'' and ''tails'' UF_6 gaseous streams flowing from the centrifuges are also passed by way of cascade header pipework to cold traps (operating at about 203 K (−70 °C)) where they are condensed prior to onward transfer into suitable containers for transportation or storage. Because an enrichment plant consists of many thousands of centrifuges arranged in cascades there are many kilometers of cascade header pipework, incorporating thousands of welds with a substantial amount of repetition of layout. The equipment, components and piping systems are fabricated to very high vacuum and cleanliness standards.

5.2.1. FEED SYSTEMS/PRODUCT AND TAILS WITHDRAWAL SYSTEMS

Specially designed or prepared process systems including: Feed autoclaves (or stations), used for passing UF_6 to the centrifuge cascades at up to 100 kPa (15 psi) and at a rate of 1 kg/h or more; desublimers (or cold traps) used to remove UF_6 from the cascades at up to 3 kPa (0.5 psi) pressure. The desublimers are capable of being chilled to 203 K (−70 °C) and heated to 343 K (70 °C); ''Product'' and ''Tails'' stations used for trapping UF6 into containers. This plant, equipment and pipework is wholly made of or lined with UF_6-resistant materials (see *Explanatory Note* to section 5.2 of this Supplement) and is fabricated to very high vacuum and cleanliness standards.

5.2.2. MACHINE HEADER PIPING SYSTEMS

Specially designed or prepared piping systems and header systems for handling UF_6 within the centrifuge cascades. The piping network is normally of the ''triple'' header system with each centrifuge connected to each of the headers. There is thus a substantial amount of repetition in its form. It is wholly made of UF_6-resistant materials (see *Explanatory Note* to section 5.2 of this supplement) and is fabricated to very high vacuum and cleanliness standards.

5.2.3. UF_6 MASS SPECTROMETERS/ION SOURCES

Specially designed or prepared magnetic or quadrupole mass spectrometers capable of taking ''on-line'' samples of feed, product or tails, from UF_6 gas streams and having all of the following characteristics:

(a) Unit resolution for atomic mass unit greater than 320;

(b) Ion sources constructed of or lined with nichrome or monel or nickel plated;

(c) Electron bombardment ionization sources;

(d) Having a collector system suitable for isotopic analysis.

5.2.4. FREQUENCY CHANGERS

Frequency changers (also known as converters or invertors) specially designed or prepared to supply motor stators (as defined under section 5.1.2(d) of this supplement), or parts, components and sub-assemblies of such frequency changers having all of the following characteristics:

(a) A multiphase output of 600 to 2000 Hz;

(b) High stability (with frequency control better than 0.1%);

(c) Low harmonic distortion (less than 2%); and

(d) An efficiency of greater than 80%.

EXPLANATORY NOTE: The items listed in this section 5.2 either come into direct contact with the UF_6 process gas or directly control the centrifuges and the passage of the gas from centrifuge to centrifuge and cascade to cascade. Materials resistant to corrosion by UF_6 include stainless steel, aluminum, aluminum alloys, nickel or alloys containing 60% or more nickel.

5.3. SPECIALLY DESIGNED OR PREPARED ASSEMBLIES AND COMPONENTS FOR USE IN GASEOUS DIFFUSION ENRICHMENT

INTRODUCTORY NOTE: In the gaseous diffusion method of uranium isotope separation, the main technological assembly is a special porous gaseous diffusion barrier, heat exchanger for cooling the gas (which is heated by the process of compression), seal valves and control valves, and pipelines. Inasmuch as gaseous diffusion technology uses uranium hexafluoride (UF_6), all equipment, pipeline and instrumentation surfaces (that come in contact with the gas) must be made of materials that remain stable in contact with UF_6. A gaseous diffusion facility requires a number of these assemblies, so that quantities can provide an important indication of end use.

5.3.1. GASEOUS DIFFUSION BARRIERS

(a) Specially designed or prepared thin, porous filters, with a pore size of 100–1,000 Å (angstroms), a thickness of 5 mm (0.2 in) or less, and for tubular forms, a diameter of 25 mm (1 in) or less, made of metallic, polymer or ceramic materials resistant to corrosion by UF_6, and

(b) Specially prepared compounds or powders for the manufacture of such filters. Such compounds and powders include nickel or alloys containing 60 percent or more nickel, aluminum oxide, or UF_6-resistant fully fluorinated hydrocarbon polymers having a purity of 99.9 percent or more, a particle size less than 10 microns, and a high degree of particle size uniformity, which are specially prepared for the manufacture of gaseous diffusion barriers.

5.3.2. DIFFUSER HOUSINGS

Specially designed or prepared hermetically sealed cylindrical vessels greater than 300 mm (12 in) in diameter and greater than 900 mm (35 in) in length, or rectangular vessels of comparable dimensions, which have an inlet connection and two outlet connections all of which are greater than 50 mm (2 in) in diameter, for containing the gaseous diffusion barrier, made of or lined with UF_6-resistant materials and designed for horizontal or vertical installation.

5.3.3. COMPRESSORS AND GAS BLOWERS

Specially designed or prepared axial, centrifugal, or positive displacement compressors, or gas blowers with a suction volume capacity of 1 m^3/min or more of UF_6, and with a discharge pressure of up to several hundred kPa (100 psi), designed for long-term operation in the UF_6 environment with or without an electrical motor of appropriate power, as well as separate assemblies of such compressors and gas blowers. These compressors and gas blowers have a pressure ratio between 2:1 and 6:1 and are made of, or lined with, materials resistant to UF_6.

5.3.4. ROTARY SHAFT SEALS

Specially designed or prepared vacuum seals, with seal feed and seal exhaust connections, for sealing the shaft connecting the compressor or the gas blower rotor with the driver motor so as to ensure a reliable seal against in-leaking of air into the inner chamber of the compressor or gas blower which is filled with UF_6. Such seals are normally designed for a buffer gas in-leakage rate of less than 1000 cm^3/min (60 in^3/min).

5.3.5. HEAT EXCHANGERS FOR COOLING UF_6

Specially designed or prepared heat exchangers made of or lined with UF_6-resistant materials (except stainless steel) or with copper or any combination of those metals, and intended for a leakage pressure change rate of less than 10 Pa (0.0015 psi) per hour under a pressure difference of 100 kPa (15 psi).

5.4. SPECIALLY DESIGNED OR PREPARED AUXILIARY SYSTEMS, EQUIPMENT AND COMPONENTS FOR USE IN GASEOUS DIFFUSION ENRICHMENT

INTRODUCTORY NOTE: The auxiliary systems, equipment and components for gaseous diffusion enrichment plants are the systems of plant needed to feed UF_6 to the gaseous diffusion assembly, to link the individual assemblies to each other to form cascades (or stages) to allow for progressively higher enrichments and to extract the ''product'' and ''tails'' UF_6 from the diffusion cascades. Because of the high inertial properties of diffusion cascades, any interruption in their operation, and especially their shut-down, leads to serious consequences. Therefore, a strict and constant maintenance of vacuum in all technological systems, automatic protection from accidents, and precise automated regulation of the gas flow is of importance in a gaseous diffusion plant. All this leads to a need to equip the plant with a large number of special measuring, regulating and controlling systems. Normally UF_6 is evaporated from cylinders placed within autoclaves and is distributed in gaseous form to the entry point by way of cascade header pipework. The ''product'' and ''tails'' UF_6 gaseous streams flowing from exit points are passed by way of cascade header pipework to either cold traps or to compression stations where the UF_6 gas is liquefied prior to onward transfer into suitable containers for transportation or storage. Because a gaseous diffusion enrichment plant consists of a large number of gaseous diffusion assemblies arranged in cascades, there are many kilometers of cascade header pipework, incorporating thousands of welds with substantial amounts of repetition of layout. The equipment, components and piping systems are fabricated to very high vacuum and cleanliness standards.

5.4.1. FEED SYSTEMS/PRODUCT AND TAILS WITHDRAWAL SYSTEMS

Specially designed or prepared process systems, capable of operating at pressures of 300 kPa (45 psi) or less, including:

(a) Feed autoclaves (or systems), used for passing UF_6 to the gaseous diffusion cascades;

(b) Desublimers (or cold traps) used to remove UF_6 from diffusion cascades;

(c) Liquefaction stations where UF_6 gas from the cascade is compressed and cooled to form liquid UF_6;

(d) ''Product'' or ''tails'' stations used for transferring UF_6 into containers.

5.4.2. HEADER PIPING SYSTEMS

Specially designed or prepared piping systems and header systems for handling UF_6 within the gaseous diffusion cascades. This piping network is normally of the ''double'' header system with each cell connected to each of the headers.

5.4.3. VACUUM SYSTEMS

(a) Specially designed or prepared large vacuum manifolds, vacuum headers and vacuum pumps having a suction capacity of 5 m^3/min (175 ft^3/min) or more.

(b) Vacuum pumps specially designed for service in UF_6-bearing atmospheres made of, or lined with, aluminum, nickel, or alloys bearing more than 60% nickel. These pumps may be either rotary or positive, may have displacement and fluorocarbon seals, and may have special working fluids present.

5.4.4. SPECIAL SHUT-OFF AND CONTROL VALVES

Specially designed or prepared manual or automated shut-off and control bellows valves made of UF_6-resistant materials with a diameter of 40 to 1500 mm (1.5 to 59 in) for installation in main and auxiliary systems of gaseous diffusion enrichment plants.

5.4.5. UF_6 MASS SPECTROMETERS/ION SOURCES

Specially designed or prepared magnetic or quadrupole mass spectrometers capable of taking ''on-line'' samples of feed, product or tails, from UF_6 gas streams and having all of the following characteristics:

(a) Unit resolution for atomic mass unit greater than 320;

(b) Ion sources constructed of or lined with nichrome or monel or nickel plated;

(c) Electron bombardment ionization sources;

(d) Collector system suitable for isotopic analysis.

EXPLANATORY NOTE: The items listed in this section 5.4 either come into direct contact with the UF_6 process gas or directly control the flow within the cascade. All surfaces which come into contact with the process gas are wholly made of, or lined with, UF_6-resistant materials. For the purposes of the sections in this supplement relating to gaseous diffusion items, the materials resistant to corrosion by UF_6 include stainless steel, aluminum, aluminum alloys, aluminum oxide, nickel or alloys containing 60% or more nickel and UF_6-resistant fully fluorinated hydrocarbon polymers.

5.5. SPECIALLY DESIGNED OR PREPARED SYSTEMS, EQUIPMENT AND COMPONENTS FOR USE IN AERODYNAMIC ENRICHMENT PLANTS

INTRODUCTORY NOTE: In aerodynamic enrichment processes, a mixture of gaseous UF_6 and light gas (hydrogen or helium) is compressed and then passed through separating elements wherein isotopic separation is accomplished by the generation of high centrifugal forces over a curved-wall geometry. Two processes of this type have been successfully developed: The separation nozzle process and the vortex tube process. For

both processes the main components of a separation stage include cylindrical vessels housing the special separation elements (nozzles or vortex tubes), gas compressors and heat exchangers to remove the heat of compression. An aerodynamic plant requires a number of these stages, so that quantities can provide an important indication of end use. Since aerodynamic processes use UF_6, all equipment, pipeline and instrumentation surfaces (that come in contact with the gas) must be made of materials that remain stable in contact with UF_6.

EXPLANATORY NOTE: The items listed in section 5.5 of this Supplement either come into direct contact with the UF_6 process gas or directly control the flow within the cascade. All surfaces which come into contact with the process gas are wholly made of or protected by UF_6-resistant materials. For the purposes of the provisions of section 5.5 of this supplement that relate to aerodynamic enrichment items, the materials resistant to corrosion by UF_6 include copper, stainless steel, aluminum, aluminum alloys, nickel or alloys containing 60% or more nickel and UF_6-resistant fully fluorinated hydrocarbon polymers.

5.5.1. SEPARATION NOZZLES

Specially designed or prepared separation nozzles and assemblies thereof. The separation nozzles consist of slit-shaped, curved channels having a radius of curvature less than 1 mm (typically 0.1 to 0.05 mm), resistant to corrosion by UF_6 and having a knife-edge within the nozzle that separates the gas flowing through the nozzle into two fractions.

5.5.2. VORTEX TUBES

Specially designed or prepared vortex tubes and assemblies thereof. The vortex tubes are cylindrical or tapered, made of or protected by materials resistant to corrosion by UF_6, having a diameter of between 0.5 cm and 4 cm, a length to diameter ratio of 20:1 or less and with one or more tangential inlets. The tubes may be equipped with nozzle-type appendages at either or both ends.

EXPLANATORY NOTE: The feed gas enters the vortex tube tangentially at one end or through swirl vanes or at numerous tangential positions along the periphery of the tube.

5.5.3. COMPRESSORS AND GAS BLOWERS

Specially designed or prepared axial, centrifugal or positive displacement compressors or gas blowers made of or protected by materials resistant to corrosion by UF_6 and with a suction volume capacity of 2 m^3/min or more of UF_6/carrier gas (hydrogen or helium) mixture.

EXPLANATORY NOTE: These compressors and gas blowers typically have a pressure ratio between 1.2:1 and 6:1.

5.5.4. ROTARY SHAFT SEALS

Specially designed or prepared rotary shaft seals, with seal feed and seal exhaust connections, for sealing the shaft connecting the compressor rotor or the gas blower rotor with the driver motor so as to ensure a reliable seal against out-leakage of process gas or in-leakage of air or seal gas into the inner chamber of the compressor or gas blower which is filled with a UF_6/carrier gas mixture.

5.5.5. HEAT EXCHANGERS FOR GAS COOLING

Specially designed or prepared heat exchangers made of or protected by materials resistant to corrosion by UF_6.

5.5.6. SEPARATION ELEMENT HOUSINGS

Specially designed or prepared separation element housings, made of or protected by materials resistant to corrosion by UF_6, for containing vortex tubes or separation nozzles.

EXPLANATORY NOTE: These housings may be cylindrical vessels greater than 300 mm in diameter and greater than 900 mm in length, or may be rectangular vessels of comparable dimensions, and may be designed for horizontal or vertical installation.

5.5.7. FEED SYSTEMS/PRODUCT AND TAILS WITHDRAWAL SYSTEMS

Specially designed or prepared process systems or equipment for enrichment plants made of or protected by materials resistant to corrosion by UF_6, including:

(a) Feed autoclaves, ovens, or systems used for passing UF_6 to the enrichment process;

(b) Desublimers (or cold traps) used to remove UF_6 from the enrichment process for subsequent transfer upon heating;

(c) Solidification or liquefaction stations used to remove UF_6 from the enrichment process by compressing and converting UF_6 to a liquid or solid form;

(d) ''Product'' or ''tails'' stations used for transferring UF_6 into containers.

5.5.8. HEADER PIPING SYSTEMS

Specially designed or prepared header piping systems, made of or protected by materials resistant to corrosion by UF_6, for handling UF_6 within the aerodynamic cascades. This piping network is normally of the ''double'' header design with each stage or group of stages connected to each of the headers.

5.5.9. VACUUM SYSTEMS AND PUMPS

(a) Specially designed or prepared vacuum systems having a suction capacity of 5 m^3/

min or more, consisting of vacuum manifolds, vacuum headers and vacuum pumps, and designed for service in UF_6-bearing atmospheres;

(b) Vacuum pumps specially designed or prepared for service in UF_6-bearing atmospheres and made of or protected by materials resistant to corrosion by UF_6. These pumps may use fluorocarbon seals and special working fluids.

5.5.10. SPECIAL SHUT-OFF AND CONTROL VALVES

Specially designed or prepared manual or automated shut-off and control bellows valves made of or protected by materials resistant to corrosion by UF_6 with a diameter of 40 to 1500 mm for installation in main and auxiliary systems of aerodynamic enrichment plants.

5.5.11. UF_6 MASS SPECTROMETERS/ION SOURCES

Specially designed or prepared magnetic or quadrupole mass spectrometers capable of taking ''on-line'' samples of feed, ''product'' or ''tails,'' from UF_6 gas streams and having all of the following characteristics:

(a) Unit resolution for mass greater than 320;

(b) Ion sources constructed of or lined with nichrome or monel or nickel plated;

(c) Electron bombardment ionization sources;

(d) Collector system suitable for isotopic analysis.

5.5.12. UF_6/CARRIER GAS SEPARATION SYSTEMS

Specially designed or prepared process systems for separating UF_6 from carrier gas (hydrogen or helium).

EXPLANATORY NOTE: These systems are designed to reduce the UF_6 content in the carrier gas to 1 ppm or less and may incorporate equipment such as:

(a) Cryogenic heat exchangers and cryoseparators capable of temperatures of −120 °C or less, or

(b) Cryogenic refrigeration units capable of temperatures of −120 °C or less, or

(c) Separation nozzle or vortex tube units for the separation of UF_6 from carrier gas, or

(d) UF_6 cold traps capable of temperatures of −20 °C or less.

5.6. SPECIALLY DESIGNED OR PREPARED SYSTEMS, EQUIPMENT AND COMPONENTS FOR USE IN CHEMICAL EXCHANGE OR ION EXCHANGE ENRICHMENT PLANTS

INTRODUCTORY NOTE: The slight difference in mass between the isotopes of uranium causes small changes in chemical reaction equilibria that can be used as a basis for separation of the isotopes. Two processes have been successfully developed: Liquid-liquid chemical exchange and solid-liquid ion exchange. In the liquid-liquid chemical exchange process, immiscible liquid phases (aqueous and organic) are countercurrently contacted to give the cascading effect of thousands of separation stages. The aqueous phase consists of uranium chloride in hydrochloric acid solution; the organic phase consists of an extractant containing uranium chloride in an organic solvent. The contactors employed in the separation cascade can be liquid-liquid exchange columns (such as pulsed columns with sieve plates) or liquid centrifugal contactors. Chemical conversions (oxidation and reduction) are required at both ends of the separation cascade in order to provide for the reflux requirements at each end. A major design concern is to avoid contamination of the process streams with certain metal ions. Plastic, plastic-lined (including use of fluorocarbon polymers) and/or glass-lined columns and piping are therefore used. In the solid-liquid ion-exchange process, enrichment is accomplished by uranium adsorption/desorption on a special, very fast-acting, ion-exchange resin or adsorbent. A solution of uranium in hydrochloric acid and other chemical agents is passed through cylindrical enrichment columns containing packed beds of the adsorbent. For a continuous process, a reflux system is necessary to release the uranium from the adsorbent back into the liquid flow so that ''product'' and ''tails'' can be collected. This is accomplished with the use of suitable reduction/oxidation chemical agents that are fully regenerated in separate external circuits and that may be partially regenerated within the isotopic separation columns themselves. The presence of hot concentrated hydrochloric acid solutions in the process requires that the equipment be made of or protected by special corrosion-resistant materials.

5.6.1. LIQUID-LIQUID EXCHANGE COLUMNS (CHEMICAL EXCHANGE)

Countercurrent liquid-liquid exchange columns having mechanical power input (i.e., pulsed columns with sieve plates, reciprocating plate columns, and columns with internal turbine mixers), specially designed or prepared for uranium enrichment using the chemical exchange process. For corrosion resistance to concentrated hydrochloric acid solutions, these columns and their internals are made of or protected by suitable plastic materials (such as fluorocarbon polymers) or glass. The stage residence time of the columns is designed to be short (30 seconds or less).

5.6.2. LIQUID-LIQUID CENTRIFUGAL CONTACTORS (CHEMICAL EXCHANGE)

Liquid-liquid centrifugal contactors specially designed or prepared for uranium enrichment using the chemical exchange process. Such contactors use rotation to achieve dispersion of the organic and aqueous

streams and then centrifugal force to separate the phases. For corrosion resistance to concentrated hydrochloric acid solutions, the contactors are made of or are lined with suitable plastic materials (such as fluorocarbon polymers) or are lined with glass. The stage residence time of the centrifugal contactors is designed to be short (30 seconds or less).

5.6.3. URANIUM REDUCTION SYSTEMS AND EQUIPMENT (CHEMICAL EXCHANGE)

(a) Specially designed or prepared electrochemical reduction cells to reduce uranium from one valence state to another for uranium enrichment using the chemical exchange process. The cell materials in contact with process solutions must be corrosion resistant to concentrated hydrochloric acid solutions.

EXPLANATORY NOTE: The cell cathodic compartment must be designed to prevent re-oxidation of uranium to its higher valence state. To keep the uranium in the cathodic compartment, the cell may have an impervious diaphragm membrane constructed of special cation exchange material. The cathode consists of a suitable solid conductor such as graphite.

(b) Specially designed or prepared systems at the product end of the cascade for taking the U^{4+} out of the organic stream, adjusting the acid concentration and feeding to the electrochemical reduction cells.

EXPLANATORY NOTE: These systems consist of solvent extraction equipment for stripping the U^{4+} from the organic stream into an aqueous solution, evaporation and/or other equipment to accomplish solution pH adjustment and control, and pumps or other transfer devices for feeding to the electrochemical reduction cells. A major design concern is to avoid contamination of the aqueous stream with certain metal ions. Consequently, for those parts in contact with the process stream, the system is constructed of equipment made of or protected by suitable materials (such as glass, fluorocarbon polymers, polyphenyl sulfate, polyether sulfone, and resin-impregnated graphite).

5.6.4. FEED PREPARATION SYSTEMS (CHEMICAL EXCHANGE)

Specially designed or prepared systems for producing high-purity uranium chloride feed solutions for chemical exchange uranium isotope separation plants.

EXPLANATORY NOTE: These systems consist of dissolution, solvent extraction and/or ion exchange equipment for purification and electrolytic cells for reducing the uranium U^{6+} or U^{4+} to U^{3+}. These systems produce uranium chloride solutions having only a few parts per million of metallic impurities such as chromium, iron, vanadium, molybdenum and other bivalent or higher multi-valent cations. Materials of construction for portions of the system processing high-purity U^{3+} include glass, fluorocarbon polymers, polyphenyl sulfate or polyether sulfone plastic-lined and resin-impregnated graphite.

5.6.5. URANIUM OXIDATION SYSTEMS (CHEMICAL EXCHANGE)

Specially designed or prepared systems for oxidation of U^{3+} to U^{4+} for return to the uranium isotope separation cascade in the chemical exchange enrichment process.

EXPLANATORY NOTE: These systems may incorporate equipment such as:

(a) Equipment for contacting chlorine and oxygen with the aqueous effluent from the isotope separation equipment and extracting the resultant U^{4+} into the stripped organic stream returning from the product end of the cascade;

(b) Equipment that separates water from hydrochloric acid so that the water and the concentrated hydrochloric acid may be reintroduced to the process at the proper locations.

5.6.6. FAST-REACTING ION EXCHANGE RESINS/ADSORBENTS (ION EXCHANGE)

Fast-reacting ion-exchange resins or adsorbents specially designed or prepared for uranium enrichment using the ion exchange process, including porous macroreticular resins, and/or pellicular structures in which the active chemical exchange groups are limited to a coating on the surface of an inactive porous support structure, and other composite structures in any suitable form including particles or fibers. These ion exchange resins/adsorbents have diameters of 0.2 mm or less and must be chemically resistant to concentrated hydrochloric acid solutions as well as physically strong enough so as not to degrade in the exchange columns. The resins/adsorbents are specially designed to achieve very fast uranium isotope exchange kinetics (exchange rate half-time of less than 10 seconds) and are capable of operating at a temperature in the range of 100 °C to 200 °C.

5.6.7. ION EXCHANGE COLUMNS (ION EXCHANGE)

Cylindrical columns greater than 1,000 mm in diameter for containing and supporting packed beds of ion exchange resin/adsorbent, specially designed or prepared for uranium enrichment using the ion exchange process. These columns are made of or protected by materials (such as titanium or fluorocarbon plastics) resistant to corrosion by concentrated hydrochloric acid solutions and are capable of operating at a temperature in the range of 100 °C to 200 °C and pressures above 0.7 MPa (102 psia).

5.6.8. ION EXCHANGE REFLUX SYSTEMS (ION EXCHANGE)

(a) Specially designed or prepared chemical or electrochemical reduction systems for regeneration of the chemical reducing agent(s) used in ion exchange uranium enrichment cascades.

(b) Specially designed or prepared chemical or electrochemical oxidation systems for regeneration of the chemical oxidizing agent(s) used in ion exchange uranium enrichment cascades.

EXPLANATORY NOTE: The ion exchange enrichment process may use, for example, trivalent titanium (Ti^{3+}) as a reducing cation in which case the reduction system would regenerate Ti^{3+} by reducing Ti^{4+}. The process may use, for example, trivalent iron (Fe^{3+}) as an oxidant in which case the oxidation system would regenerate Fe^{3+} by oxidizing Fe^{2+}.

5.7. SPECIALLY DESIGNED OR PREPARED SYSTEMS, EQUIPMENT AND COMPONENTS FOR USE IN LASER-BASED ENRICHMENT PLANTS

INTRODUCTORY NOTE: Present systems for enrichment processes using lasers fall into two categories: Those in which the process medium is atomic uranium vapor and those in which the process medium is the vapor of a uranium compound. Common nomenclature for such processes include: *First category*—atomic vapor laser isotope separation (AVLIS or SILVA); *second category*—molecular laser isotope separation (MLIS or MOLIS) and chemical reaction by isotope selective laser activation (CRISLA). The systems, equipment and components for laser enrichment plants embrace:

(a) Devices to feed uranium-metal vapor (for selective photo-ionization) or devices to feed the vapor of a uranium compound (for photo-dissociation or chemical activation);

(b) Devices to collect enriched and depleted uranium metal as ''product'' and ''tails'' in the first category, and devices to collect dissociated or reacted compounds as ''product'' and unaffected material as ''tails'' in the second category;

(c) Process laser systems to selectively excite the uranium-235 species; and

(d) Feed preparation and product conversion equipment. The complexity of the spectroscopy of uranium atoms and compounds may require incorporation of any of a number of available laser technologies.

EXPLANATORY NOTE: Many of the items listed in section 5.7 of this supplement come into direct contact with uranium metal vapor or liquid or with process gas consisting of UF_6 or a mixture of UF_6 and other gases. All surfaces that come into contact with the uranium or UF_6 are wholly made of or protected by corrosion-resistant materials. For the purposes of the provisions in section 5.7 of this supplement that relate to laser-based enrichment items, the materials resistant to corrosion by the vapor or liquid of uranium metal or uranium alloys include yttria-coated graphite and tantalum; and the materials resistant to corrosion by UF_6 include copper, stainless steel, aluminum, aluminum alloys, nickel or alloys containing 60% or more nickel and UF_6-resistant fully fluorinated hydrocarbon polymers.

5.7.1. URANIUM VAPORIZATION SYSTEMS (AVLIS)

Specially designed or prepared uranium vaporization systems which contain high-power strip or scanning electron beam guns with a delivered power on the target of more than 2.5 kW/cm.

5.7.2. LIQUID URANIUM METAL HANDLING SYSTEMS (AVLIS)

Specially designed or prepared liquid metal handling systems for molten uranium or uranium alloys, consisting of crucibles and cooling equipment for the crucibles.

EXPLANATORY NOTE: The crucibles and other parts of this system that come into contact with molten uranium or uranium alloys are made of or protected by materials of suitable corrosion and heat resistance. Suitable materials include tantalum, yttria-coated graphite, graphite coated with other rare earth oxides or mixtures thereof.

5.7.3. URANIUM METAL 'PRODUCT' AND 'TAILS' COLLECTOR ASSEMBLIES (AVLIS)

Specially designed or prepared ''product'' and ''tails'' collector assemblies for uranium metal in liquid or solid form.

EXPLANATORY NOTE: Components for these assemblies are made of or protected by materials resistant to the heat and corrosion of uranium metal vapor or liquid (such as yttria-coated graphite or tantalum) and may include pipes, valves, fittings, ''gutters,'' feed-throughs, heat exchangers and collector plates for magnetic, electrostatic or other separation methods.

5.7.4. SEPARATOR MODULE HOUSINGS (AVLIS)

Specially designed or prepared cylindrical or rectangular vessels for containing the uranium metal vapor source, the electron beam gun, and the ''product'' and ''tails'' collectors.

EXPLANATORY NOTE: These housings have multiplicity of ports for electrical and water feed-throughs, laser beam windows, vacuum pump connections and instrumentation diagnostics and monitoring. They have provisions for opening and closure to allow refurbishment of internal components.

5.7.5. SUPERSONIC EXPANSION NOZZLES (MLIS)

Specially designed or prepared supersonic expansion nozzles for cooling mixtures of

UF_6 and carrier gas to 150 K or less and which are corrosion resistant to UF_6.

5.7.6. URANIUM PENTAFLUORIDE PRODUCT COLLECTORS (MLIS)

Specially designed or prepared uranium pentafluoride (UF_5) solid product collectors consisting of filter, impact, or cyclone-type collectors, or combinations thereof, and which are corrosion resistant to the UF_5/UF_6 environment.

5.7.7. UF_6/CARRIER GAS COMPRESSORS (MLIS)

Specially designed or prepared compressors for UF_6/carrier gas mixtures, designed for long term operation in a UF_6 environment. The components of these compressors that come into contact with process gas are made of or protected by materials resistant to corrosion by UF_6.

5.7.8. ROTARY SHAFT SEALS (MLIS)

Specially designed or prepared rotary shaft seals, with seal feed and seal exhaust connections, for sealing the shaft connecting the compressor rotor with the driver motor so as to ensure a reliable seal against out-leakage of process gas or in-leakage of air or seal gas into the inner chamber of the compressor which is filled with a UF_6/carrier gas mixture.

5.7.9. FLUORINATION SYSTEMS (MLIS)

Specially designed or prepared systems for fluorinating UF_5 (solid) to UF_6 (gas).

EXPLANATORY NOTE: These systems are designed to fluorinate the collected UF_5 powder to UF_6 for subsequent collection in product containers or for transfer as feed to MLIS units for additional enrichment. In one approach, the fluorination reaction may be accomplished within the isotope separation system to react and recover directly off the ''product'' collectors. In another approach, the UF_5 powder may be removed/transferred from the ''product'' collectors into a suitable reaction vessel (e.g., fluidized-bed reactor, screw reactor or flame tower) for fluorination. In both approaches, equipment for storage and transfer of fluorine (or other suitable fluorinating agents) and for collection and transfer of UF_6 are used.

5.7.10. UF_6 MASS SPECTROMETERS/ION SOURCES (MLIS)

Specially designed or prepared magnetic or quadrupole mass spectrometers capable of taking ''on-line'' samples of feed, ''product,'' or ''tails'' from UF_6 gas streams and having all of the following characteristics:

(a) Unit resolution for mass greater than 320;

(b) Ion sources constructed of or lined with nichrome or monel or nickel plated;

(c) Electron bombardment ionization sources; and

(d) Collector system suitable for isotopic analysis.

5.7.11. FEED SYSTEMS/PRODUCT AND TAILS WITHDRAWAL SYSTEMS (MLIS)

Specially designed or prepared process systems or equipment for enrichment plants made of or protected by materials resistant to corrosion by UF_6, including:

(a) Feed autoclaves, ovens, or systems used for passing UF_6 to the enrichment process;

(b) Desublimers (or cold traps) used to remove UF_6 from the enrichment process for subsequent transfer upon heating;

(c) Solidification or liquefaction stations used to remove UF_6 from the enrichment process by compressing and converting UF_6 to a liquid or solid form;

(d) ''Product'' or ''tails'' stations used for transferring UF_6 into containers.

5.7.12. UF_6/CARRIER GAS SEPARATION SYSTEMS (MLIS)

Specially designed or prepared process systems for separating UF_6 from carrier gas. The carrier gas may be nitrogen, argon, or other gas.

EXPLANATORY NOTE: These systems may incorporate equipment such as:

(a) Cryogenic heat exchangers or cryoseparators capable of temperatures of −120 °C or less, or

(b) Cryogenic refrigeration units capable of temperatures of −120 °C or less, or

(c) UF_6 cold traps capable of temperatures of −20 °C or less.

5.7.13. LASER SYSTEMS (AVLIS, MLIS AND CRISLA)

Lasers or laser systems specially designed or prepared for the separation of uranium isotopes.

EXPLANATORY NOTE: The laser system for the AVLIS process usually consists of two lasers: A copper vapor laser and a dye laser. The laser system for MLIS usually consists of a CO_2 or excimer laser and a multi-pass optical cell with revolving mirrors at both ends. Lasers or laser systems for both processes require a spectrum frequency stabilizer for operation over extended periods of time.

5.8. SPECIALLY DESIGNED OR PREPARED SYSTEMS, EQUIPMENT AND COMPONENTS FOR USE IN PLASMA SEPARATION ENRICHMENT PLANTS

INTRODUCTORY NOTE: In the plasma separation process, a plasma of uranium ions passes through an electric field tuned to the U–235 ion resonance frequency so that they preferentially absorb energy and increase the diameter of their corkscrew-like orbits. Ions with a large-diameter path are trapped to produce a product enriched in U–235. The plasma, which is made by ionizing uranium vapor, is contained in a vacuum chamber

with a high-strength magnetic field produced by a superconducting magnet. The main technological systems of the process include the uranium plasma generation system, the separator module with superconducting magnet and metal removal systems for the collection of ''product'' and ''tails.''

5.8.1. MICROWAVE POWER SOURCES AND ANTENNAE

Specially designed or prepared microwave power sources and antennae for producing or accelerating ions and having the following characteristics: Greater than 30 GHz frequency and greater than 50 kW mean power output for ion production.

5.8.2. ION EXCITATION COILS

Specially designed or prepared radio frequency ion excitation coils for frequencies of more than 100 kHz and capable of handling more than 40 kW mean power.

5.8.3. URANIUM PLASMA GENERATION SYSTEMS

Specially designed or prepared systems for the generation of uranium plasma, which may contain high-power strip or scanning electron beam guns with a delivered power on the target of more than 2.5 kW/cm.

5.8.4. LIQUID URANIUM METAL HANDLING SYSTEMS

Specially designed or prepared liquid metal handling systems for molten uranium or uranium alloys, consisting of crucibles and cooling equipment for the crucibles, power supply system, the ion source high-voltage power supply system, the vacuum system, and extensive chemical handling systems for recovery of product and cleaning/recycling of components.

5.9.1. ELECTROMAGNETIC ISOTOPE SEPARATORS

Electromagnetic isotope separators specially designed or prepared for the separation of uranium isotopes, and equipment and components therefor, including:

(a) *Ion sources:* Specially designed or prepared single or multiple uranium ion sources consisting of a vapor source, ionizer, and beam accelerator, constructed of suitable materials such as graphite, stainless steel, or copper, and capable of providing a total ion beam current of 50 mA or greater;

(b) *Ion collectors:* Collector plates consisting of two or more slits and pockets specially designed or prepared for collection of enriched and depleted uranium ion beams and constructed of suitable materials such as graphite or stainless steel;

(c) *Vacuum housings:* Specially designed or prepared vacuum housings for uranium electromagnetic separators, constructed of suitable non-magnetic materials such as stainless steel and designed for operation at pressures of 0.1 Pa or lower;

EXPLANATORY NOTE: The housings are specially designed to contain the ion sources, collector plates and water-cooled liners and have provision for diffusion pump connections and opening and closure for removal and reinstallation of these components.

(d) *Magnet pole pieces:* Specially designed or prepared magnet pole pieces having a diameter greater than 2 m used to maintain a constant magnetic field within an electromagnetic isotope separator and to transfer the magnetic field between adjoining separators.

5.9.2. HIGH VOLTAGE POWER SUPPLIES

Specially designed or prepared high-voltage power supplies for ion sources, having all of the following characteristics: capable of continuous operation, output voltage of 20,000 V or greater, output current of 1 A or greater, and voltage regulation of better than 0.01% over a time period of 8 hours.

5.9.3. MAGNET POWER SUPPLIES

Specially designed or prepared high-power, direct current magnet power supplies having all of the following characteristics: capable of continuously producing a current output of 500 A or greater at a voltage of 100 V or greater and with a current or voltage regulation better than 0.01% over a period of 8 hours.

6. PLANTS FOR THE PRODUCTION OF HEAVY WATER, DEUTERIUM AND DEUTERIUM COMPOUNDS AND EQUIPMENT SPECIALLY DESIGNED OR PREPARED THEREFOR

INTRODUCTORY NOTE: Heavy water can be produced by a variety of processes. However, the two processes that have proven to be commercially viable are the water-hydrogen sulphide exchange process (GS process) and the ammonia-hydrogen exchange process. The GS process is based upon the exchange of hydrogen and deuterium between water and hydrogen sulphide within a series of towers which are operated with the top section cold and the bottom section hot. Water flows down the towers while the hydrogen sulphide gas circulates from the bottom to the top of the towers. A series of perforated trays are used to promote mixing between the gas and the water. Deuterium migrates to the water at low temperatures and to the hydrogen sulphide at high temperatures. Gas or water, enriched in deuterium, is removed from the first stage towers at the junction of the hot and cold sections and the process is repeated in subsequent stage towers. The product of the last stage, water enriched up to 30% in deuterium, is sent to a distillation unit to produce reactor grade heavy water, i.e., 99.75% deuterium oxide. The ammonia-hydrogen exchange process can extract deuterium from synthesis gas through contact with liquid ammonia in the presence of a

catalyst. The synthesis gas is fed into exchange towers and to an ammonia converter. Inside the towers the gas flows from the bottom to the top while the liquid ammonia flows from the top to the bottom. The deuterium is stripped from the hydrogen in the synthesis gas and concentrated in the ammonia. The ammonia then flows into an ammonia cracker at the bottom of the tower while the gas flows into an ammonia converter at the top. Further enrichment takes place in subsequent stages and reactor grade heavy water is produced through final distillation. The synthesis gas feed can be provided by an ammonia plant that, in turn, can be constructed in association with a heavy water ammonia-hydrogen exchange plant. The ammonia-hydrogen exchange process can also use ordinary water as a feed source of deuterium.

Many of the key equipment items for heavy water production plants using GS or the ammonia-hydrogen exchange processes are common to several segments of the chemical and petroleum industries. This is particularly so for small plants using the GS process. However, few of the items are available ''off-the-shelf.'' The GS and ammonia-hydrogen processes require the handling of large quantities of flammable, corrosive and toxic fluids at elevated pressures. Accordingly, in establishing the design and operating standards for plants and equipment using these processes, careful attention to the materials selection and specifications is required to ensure long service life with high safety and reliability factors. The choice of scale is primarily a function of economics and need. Thus, most of the equipment items would be prepared according to the requirements of the customer. Finally, it should be noted that, in both the GS and the ammonia-hydrogen exchange processes, items of equipment which individually are not specially designed or prepared for heavy water production can be assembled into systems which are specially designed or prepared for producing heavy water. The catalyst production system used in the ammonia-hydrogen exchange process and water distillation systems used for the final concentration of heavy water to reactor-grade in either process are examples of such systems. The items of equipment which are specially designed or prepared for the production of heavy water utilizing either the water-hydrogen sulphide exchange process or the ammonia-hydrogen exchange process include the following:

6.1. Water-hydrogen sulphide exchange towers

Exchange towers fabricated from fine carbon steel (such as ASTM A516) with diameters of 6 m (20 ft) to 9 m (30 ft), capable of operating at pressures greater than or equal to 2 MPa (300 psi) and with a corrosion allowance of 6 mm or greater, specially designed or prepared for heavy water production utilizing the water-hydrogen sulphide exchange process.

6.2. Blowers and compressors

Single stage, low head (i.e., 0.2 MPa or 30 psi) centrifugal blowers or compressors for hydrogen-sulphide gas circulation (i.e., gas containing more than 70% H_2S) specially designed or prepared for heavy water production utilizing the water-hydrogen sulphide exchange process. These blowers or compressors have a throughput capacity greater than or equal to 56 m^3/second (120,000 SCFM) while operating at pressures greater than or equal to 1.8 MPa (260 psi) suction and have seals designed for wet H_2S service.

6.3. Ammonia-hydrogen exchange towers

Ammonia-hydrogen exchange towers greater than or equal to 35 m (114.3 ft) in height with diameters of 1.5 m (4.9 ft) to 2.5 m (8.2 ft) capable of operating at pressures greater than 15 MPa (2225 psi) specially designed or prepared for heavy water production utilizing the ammonia-hydrogen exchange process. These towers also have at least one flanged axial opening of the same diameter as the cylindrical part through which the tower internals can be inserted or withdrawn.

6.4. Tower internals and stage pumps

Tower internals and stage pumps specially designed or prepared for towers for heavy water production utilizing the ammonia-hydrogen exchange process. Tower internals include specially designed stage contactors which promote intimate gas/liquid contact. Stage pumps include specially designed submersible pumps for circulation of liquid ammonia within a contacting stage internal to the stage towers.

6.5. Ammonia crackers

Ammonia crackers with operating pressures greater than or equal to 3 MPa (450 psi) specially designed or prepared for heavy water production utilizing the ammonia-hydrogen exchange process.

6.6. Infrared absorption analyzers

Infrared absorption analyzers capable of ''on-line'' hydrogen/deuterium ratio analysis where deuterium concentrations are equal to or greater than 90%.

6.7. Catalytic burners

Catalytic burners for the conversion of enriched deuterium gas into heavy water specially designed or prepared for heavy water production utilizing the ammonia-hydrogen exchange process.

7. PLANTS FOR THE CONVERSION OF URANIUM AND EQUIPMENT SPECIALLY DESIGNED OR PREPARED THEREFOR

INTRODUCTORY NOTE: Uranium conversion plants and systems may perform one or more transformations from one uranium chemical species to another, including: conversion of uranium ore concentrates to UO_3, conversion of UO_3 to UO_2, conversion of uranium oxides to UF_4 or UF_6, conversion of UF_4 to UF_6, conversion of UF_6 to UF_4, conversion of UF_4 to uranium metal, and conversion of uranium fluorides to UO_2. Many of the key equipment items for uranium conversion plants are common to several segments of the chemical process industry. For example, the types of equipment employed in these processes may include: Furnaces, rotary kilns, fluidized bed reactors, flame tower reactors, liquid centrifuges, distillation columns and liquid-liquid extraction columns. However, few of the items are available ''off-the-shelf;'' most would be prepared according to the requirements and specifications of the customer. In some instances, special design and construction considerations are required to address the corrosive properties of some of the chemicals handled (HF, F_2, ClF_3, and uranium fluorides). Finally, it should be noted that, in all of the uranium conversion processes, items of equipment which individually are not specially designed or prepared for uranium conversion can be assembled into systems which are specially designed or prepared for use in uranium conversion.

7.1. SPECIALLY DESIGNED OR PREPARED SYSTEMS FOR THE CONVERSION OF URANIUM ORE CONCENTRATES TO UO_3

EXPLANATORY NOTE: Conversion of uranium ore concentrates to UO_3 can be performed by first dissolving the ore in nitric acid and extracting purified uranyl nitrate using a solvent such as tributyl phosphate. Next, the uranyl nitrate is converted to UO_3 either by concentration and denitration or by neutralization with gaseous ammonia to produce ammonium diuranate with subsequent filtering, drying, and calcining.

7.2. SPECIALLY DESIGNED OR PREPARED SYSTEMS FOR THE CONVERSION OF UO_3 TO UF_6

EXPLANATORY NOTE: Conversion of UO_3 to UF_6 can be performed directly by fluorination. The process requires a source of fluorine gas or chlorine trifluoride.

7.3. SPECIALLY DESIGNED OR PREPARED SYSTEMS FOR THE CONVERSION OF UO_3 TO UO_2

EXPLANATORY NOTE: Conversion of UO_3 to UO_2 can be performed through reduction of UO_3 with cracked ammonia gas or hydrogen.

7.4. SPECIALLY DESIGNED OR PREPARED SYSTEMS FOR THE CONVERSION OF UO_2 TO UF_4

EXPLANATORY NOTE: Conversion of UO_2 to UF_4 can be performed by reacting UO_2 with hydrogen fluoride gas (HF) at 300–500 °C.

7.5. SPECIALLY DESIGNED OR PREPARED SYSTEMS FOR THE CONVERSION OF UF_4 TO UF_6

EXPLANATORY NOTE: Conversion of UF_4 to UF_6 is performed by exothermic reaction with fluorine in a tower reactor. UF_6 is condensed from the hot effluent gases by passing the effluent stream through a cold trap cooled to −10 °C. The process requires a source of fluorine gas.

7.6. SPECIALLY DESIGNED OR PREPARED SYSTEMS FOR THE CONVERSION OF UF_4 TO U METAL

EXPLANATORY NOTE: Conversion of UF_4 to U metal is performed by reduction with magnesium (large batches) or calcium (small batches). The reaction is carried out at temperatures above the melting point of uranium (1130 °C).

7.7. SPECIALLY DESIGNED OR PREPARED SYSTEMS FOR THE CONVERSION OF UF_6 TO UO_2

EXPLANATORY NOTE: Conversion of UF_6 to UO_2 can be performed by one of three processes. In the first, UF_6 is reduced and hydrolyzed to UO_2 using hydrogen and steam. In the second, UF_6 is hydrolyzed by solution in water, ammonia is added to precipitate ammonium diuranate, and the diuranate is reduced to UO_2 with hydrogen at 820 °C. In the third process, gaseous UF_6, CO_2, and NH_3 are combined in water, precipitating ammonium uranyl carbonate. The ammonium uranyl carbonate is combined with steam and hydrogen at 500–600 °C to yield UO_2. UF_6 to UO_2 conversion is often performed as the first stage of a fuel fabrication plant.

7.8 SPECIALLY DESIGNED OR PREPARED SYSTEMS FOR THE CONVERSION OF UF_6 TO UF_4

EXPLANATORY NOTE: Conversion of UF_6 to UF_4 is performed by reduction with hydrogen.

PART 784—COMPLEMENTARY ACCESS

Sec.

784.1 Complementary access: General information on the purpose of complementary access, affected locations, and the role of BIS.
784.2 Obtaining consent or warrants to conduct complementary access.
784.3 Scope and conduct of complementary access.

784.4 Notification, duration and frequency of complementary access.
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784.6 Post complementary access activities.

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SOURCE: 73 FR 65128, Oct. 31, 2008, unless otherwise noted.

§ 784.1 Complementary access: General information on the purpose of complementary access, affected locations, and the role of BIS.

(a) *Overview*. The Additional Protocol requires that the United States provide the IAEA with complementary access to locations specified in the U.S. declaration. The IAEA may request and be given complementary access to locations in the United States that are not included in the U.S. declaration as agreed to by the U.S. Government. The IAEA, upon request, will be granted complementary access to locations in the United States in accordance with the provisions of § 784.3 of the APR, which describes the scope and conduct of complementary access.

(b) *Purposes authorized under the APR*. The APR authorize the conduct of complementary access, at locations in the United States, for the following purposes.

(1) *Declared uranium hard-rock mines and ore beneficiation plants*. Complementary access may be conducted, on a selective basis, to verify the absence of undeclared nuclear material and nuclear related activities at reportable uranium hard-rock mines and ore beneficiation plants (see § 783.1(a)(3) of the APR).

(2) *Other locations specified in the U.S. declaration and locations requested by the IAEA that are not included in the U.S. declaration as agreed to by the U.S. Government*. Complementary access may be conducted at other locations specified in the U.S. declaration (i.e., locations required to submit reports to BIS pursuant to § 783.1(a)(1), (a)(2), or (b) of the APR), and locations requested by the IAEA and agreed to by the U.S. Government, to resolve questions relating to the correctness and completeness of the information provided in the U.S. declaration or to resolve inconsistencies relating to that information.

(i) In the event that the IAEA has a question about, or identifies an apparent inconsistency in, information contained in the U.S. declaration (e.g., information based on reports submitted to BIS by one of these locations, pursuant to § 783.1(a)(1), (a)(2), or (b) of the APR), the IAEA will provide the U.S. Government with an opportunity to clarify or resolve the question or inconsistency. The IAEA will not draw any conclusions about the question or inconsistency, or request complementary access to a location, until the U.S. Government has been provided with an opportunity to clarify or resolve the question or inconsistency, unless the IAEA considers that a delay in access would prejudice the purpose for which the access is sought.

(ii) Upon receipt of a request from the IAEA for clarification concerning information contained in the U.S. declaration, BIS will provide written notification to the U.S. location. The U.S. location must provide BIS with all of the requested information to clarify or resolve the question or inconsistency raised by the IAEA. Unless informed otherwise by BIS, the U.S. location will have 15 calendar days from its receipt of written notification to submit the required forms to BIS (see the *Supplemental Information Report* requirements in § 783.1(d) of the APR).

(c) *Locations subject to complementary access*. All locations specified in the U.S. declaration and other locations requested by the IAEA and agreed to by the U.S. Government are subject to complementary access by the IAEA. In cases where access cannot be provided to locations specified by the IAEA, BIS may seek to provide complementary access to adjacent locations or to satisfy the purposes of complementary access (see paragraph (b) of this section) through other means.

(d) *Responsibilities of BIS*. As the lead U.S. Government agency and point of contact for organizing and facilitating complementary access pursuant to the APR, BIS will:

(1) Serve as the official U.S. Government host to the IAEA inspection team;

(2) Provide prior written notification to any location that is scheduled to undergo complementary access;

(3) Take appropriate action to obtain an administrative warrant in the event that a location does not consent to complementary access;

(4) Upon request of the location, dispatch an advance team, if time and other circumstances permit, to the location to provide administrative and logistical support for complementary access and to assist with preparation for such access;

(5) Accompany the IAEA Team throughout the duration of complementary access;

(6) Assist the IAEA Team with complementary access activities and ensure that each activity adheres to the provisions of the Additional Protocol and to the requirements of the APR and the Act, including the conditions of any warrant issued thereunder; and

(7) Assist in the negotiation and development of a location-specific subsidiary arrangement between the U.S. Government and the IAEA, if appropriate (see § 784.5 of the APR).

NOTE TO § 784.1(d): BIS may invite representatives from other U.S. Government agencies to participate as members of the Advance and Host Teams for complementary access. The Host Team will not include employees of the Environmental Protection Agency, the Mine Safety and Health Administration, or the Occupational Safety and Health Administration of the Department of Labor.

§ 784.2 Obtaining consent or warrants to conduct complementary access.

(a) *Procedures for obtaining consent.* (1) For locations specified in the U.S. declaration and other locations specified by the IAEA, BIS will seek consent pursuant to IAEA complementary access requests. In instances where the owner, operator, occupant or agent in charge of a location does not consent to such complementary access, BIS will seek administrative warrants as provided by the Act.

(2) For locations specified by the IAEA where access cannot be provided, BIS may seek consent from an adjacent location pursuant to an IAEA complementary access request.

(b) *Who may give consent.* The owner, operator, occupant or agent in charge of a location may consent to complementary access. The individual providing consent on behalf of the location represents that he or she has the authority to make this decision.

(c) *Scope of consent.* (1) When the owner, operator, occupant, or agent in charge of a location consents to a complementary access request, he or she is agreeing to provide the IAEA Team with the same degree of access as that authorized under § 784.3 of the APR. This includes providing access for the IAEA Team and Host Team to any area of the location, any item on the location, and any records that are necessary to comply with the APR and allow the IAEA Team to accomplish the purpose of complementary access, as authorized under § 784.1(b)(1) or (b)(2) of the APR, except for the following:

(i) Information subject to the licensing jurisdiction of the Directorate of Defense Trade Controls (DDTC), U.S. Department of State, under the International Traffic in Arms Regulations (ITAR) (22 CFR parts 120 through 130)—see § 784.3(b)(3) of the APR, which states that such access cannot be provided without prior U.S. Government authorization; and

(ii) Activities with direct national security significance to the United States, or locations or information associated with such activities.

(2) The Host Team Leader is responsible for determining whether or not the IAEA's request to obtain access to any area, building, or item, or to record or conduct the types of activities described in § 784.3 of the APR is consistent with the Additional Protocol and subsidiary arrangements to the Additional Protocol.

§ 784.3 Scope and conduct of complementary access.

(a) *General.* IAEA complementary access shall be limited to accomplishing only those purposes that are appropriate to the type of location, as indicated in § 784.1(b) of the APR and shall be conducted in the least intrusive manner, consistent with the effective and timely accomplishment of such purposes. No complementary access may take place without the presence of a U.S. Government Host Team. No information of direct national security

significance shall be provided to the IAEA during complementary access.

(b) *Scope*. This paragraph describes complementary access activities that are authorized under the APR.

(1) *Complementary access activities*. Depending on the type of location accessed, the IAEA Team may:

(i) Perform visual observation of parts or areas of the location;

(ii) Utilize radiation detection and measurement devices;

(iii) Utilize non-destructive measurements and sampling;

(iv) Examine relevant records (i.e., records appropriate for the purpose of complementary access, as authorized under § 784.1(b) of the APR), except that the following records may not be inspected unless the Host Team leader, after receiving input from representatives of the location and consulting with other members of the Host Team, determines that such access is both appropriate and necessary to achieve the relevant purpose described in § 784.1(b)(1) or (b)(2) of the APR:

(A) Financial data (other than production data);

(B) Sales and marketing data (other than shipment data);

(C) Pricing data;

(D) Personnel data;

(E) Patent data;

(F) Data maintained for compliance with environmental or occupational health and safety regulations; or

(G) Research data (unless the data are reported on Form AP–3 or AP–4);

(v) Perform location-specific environmental sampling; and

NOTE TO § 784.3(b)(1)(v): BIS will not seek access to a location for location-specific environmental sampling until the President reports to the appropriate congressional committees his determination to permit such sampling.

(vi) Utilize other objective measures which have been demonstrated to be technically feasible and the use of which have been agreed to by the United States (''objective measures,'' as used herein, means any verification techniques that would be appropriate for achieving the official purpose of complementary access, both in terms of their effectiveness and limited intrusiveness).

(2) *Wide Area Environmental Sampling*. In certain cases, IAEA inspectors may collect environmental samples (e.g., air, water, vegetation, soil, smears), at a location specified by the IAEA, for the purpose of assisting the IAEA to draw conclusions about the absence of undeclared nuclear material or nuclear activities over a wide area.

NOTE TO § 784.3(b)(2): The IAEA will not seek such access until the use of wide-area environmental sampling and the procedural arrangements therefor have been approved by its Board of Governors and consultations have been held between the IAEA and the United States. BIS will not seek access to a location for wide-area sampling until the President reports to the appropriate congressional committees his determination to permit such sampling.

(3) *ITAR-controlled technology*. ITAR-controlled technology shall not be made available to the IAEA Team without prior U.S. Government authorization. The owner, operator, occupant, or agent in charge of the location being accessed is responsible for identifying any ITAR-controlled technology at the location to the Host Team as soon as practicable following the receipt of notification from BIS of complementary access (see § 784.4(a) of the APR).

(c) *Briefing*. Following the arrival of the IAEA Team and Host Team at a location subject to complementary access, and prior to the commencement of complementary access, representatives of the organization will provide the IAEA Team and Host Team with a briefing on the environmental, health, safety, and security regulations (e.g., regulations for protection of controlled environments within the location and for personal safety) that are applicable to the location and which must be observed. In addition, the organization's representatives may include in their briefing an overview of the location, the activities carried out at the location, and any administrative and logistical arrangements relevant to complementary access. The briefing may include the use of maps and other documentation deemed appropriate by the organization. The time spent for the briefing may not exceed one hour, and the content should be limited to that which relates to the purpose of

complementary access. The briefing may also address any of the following:

(1) Areas, buildings, and structures specific to any activities relevant to complementary access;

(2) Administrative and logistical information;

(3) Updates/revisions to reports required under the APR;

(4) Introduction of key personnel at the location;

(5) Location-specific subsidiary arrangement, if applicable; and

(6) Proposed access plan to address the purpose of complementary access.

(d) *Visual access.* The IAEA Team may visually observe areas or parts of the location, as agreed by the Host Team Leader, after the Host Team Leader has consulted with the organization's representative for the location.

(e) *Records review.* The location must be prepared to provide the IAEA Team with access to all supporting materials and documentation used by the owner, operator, occupant, or agent in charge of the location to prepare reports required under the APR and to otherwise comply with the APR (see the records inspection and recordkeeping requirements in §§ 786.1 and 786.2 of the APR and paragraph (b) of this section, which describes the scope of complementary access activities authorized under the APR) and with appropriate accommodations in which the IAEA Team can review these supporting materials and documentation. Such access will be provided in appropriate formats (e.g., paper copies, electronic remote access by computer, microfilm, or microfiche) through the Host Team to the IAEA Team during the complementary access period or as otherwise agreed upon by the IAEA Team and Host Team Leader. If the owner, operator, occupant, or agent in charge of the location does not have access to records for activities that took place under previous ownership, the previous owner must make such records available to the Host Team.

(f) *Managed access.* As necessary, the Host Team will implement managed access measures (e.g., the removal of sensitive papers from office spaces and the shrouding of sensitive displays, stores, and equipment) to prevent the dissemination of proliferation sensitive information, to meet safety or physical protection requirements, to protect proprietary or commercially sensitive information, or to protect activities of direct national security significance to the United States, including locations or information associated with such activities. If the IAEA Team is unable to fully achieve its inspection aims under the managed access measures in place, the Host Team will make every reasonable effort to provide alternative means to allow the IAEA Team to meet these aims, consistent with the purposes of complementary access (as described in § 784.1(b) of the APR) and the requirements of this section. If a location-specific subsidiary arrangement applies (see § 784.5(b) of the APR), the Host Team shall, in consultation with the owner, operator, occupant, or agent in charge of the location, implement managed access procedures consistent with the applicable location-specific subsidiary arrangement.

(g) *Hours of complementary access.* Consistent with the provisions of the Additional Protocol, the Host Team will ensure, to the extent possible, that each complementary access is commenced, conducted, and concluded during ordinary business hours, but no complementary access shall be prohibited or otherwise disrupted from commencing, continuing or concluding during other hours.

(h) *Environmental, health, safety, and security regulations and requirements.* In carrying out their activities, the IAEA Team and Host Team shall observe federal, state, and local environmental, health, safety, and security regulations and environmental, health, safety, and security requirements established at the location, including those for the protection of controlled environments within a location and for personal safety. To the extent practicable, any such regulations and requirements that may apply to the conduct of complementary access at the location should be set forth in the location-specific subsidiary arrangement (if any).

(i) *Host Team to accompany the IAEA Team.* The Host Team shall accompany the IAEA Team, during their complementary access at the location, in

accordance with the provisions set forth in this part of the APR.

(j) *Scope of authorized communications by the IAEA Team.* (1) The United States shall permit and protect free communications between the IAEA Team and IAEA Headquarters and/or Regional Offices, including attended and unattended transmission of information generated by IAEA containment and/or surveillance or measurement devices. The IAEA Team shall have the right, through consultation with the Host Team, to make use of internationally established systems of direct communications.

(2) No document, photograph or other recorded medium, or sample relevant to complementary access may be removed or transmitted from the location by the IAEA Team without the prior consent of the Host Team.

(k) *IAEA activities, findings, and results related to complementary access.* (1) In accordance with the Additional Protocol, the IAEA shall inform the United States of:

(i) Any activities that took place in connection with complementary access to a location in the United States, including any activities concerning questions or inconsistencies that the IAEA may have brought to the attention of the United States, within 60 calendar days of the time that the activities occurred; and

(ii) The findings or results of any activities that took place, including the findings and results of activities concerning questions or inconsistencies that the IAEA may have brought to the attention of the United States, within 30 calendar days of the time that such findings or results were reached by the IAEA.

(2) BIS will provide the results of complementary access to the owner, operator, occupant, or agent in charge of the inspected location to the extent practicable.

§ 784.4 Notification, duration and frequency of complementary access.

(a) *Complementary access notification.* Complementary access will be provided only upon the issuance of a written notice by BIS to the owner, operator, occupant or agent in charge of the premises to be accessed. If BIS is unable to provide written notification to the owner, operator, or agent in charge, BIS may post a notice prominently at the location to be accessed.

(1) *Content of notice*—(i) *Pertinent information furnished by the IAEA.* The notice shall include all appropriate information provided by the IAEA to the United States Government concerning:

(A) The purpose of complementary access;

(B) The basis for the selection of the location for complementary access;

(C) The activities that will be carried out during complementary access;

(D) The time and date that complementary access is expected to begin and its anticipated duration; and

(E) The names and titles of the IAEA inspectors who will participate in complementary access.

(ii) *Request for location's consent to complementary access.* The complementary access notification from BIS will request that the location inform BIS whether or not it will consent to complementary access. If a location does not agree to provide consent to complementary access within four hours of its receipt of the complementary access notification, BIS will seek an administrative warrant as provided in § 784.2(a)(1).

(iii) *Availability of advance team from BIS.* An advance team from BIS will be available to assist the location in preparing for complementary access. If the complementary access is a 24-hour advance notice, then the availability of an advance team may be limited. The location requesting advance team assistance will not be required to reimburse the U.S. Government for any costs associated with these activities. The location (in cooperation with the advance team, if available) will make preparations for complementary access, including the identification of any ITAR-controlled technology and/or national security information at the location (see § 784.3(b)(3) of the APR).

(2) *Notification procedures.* The following table sets forth the notification procedures for complementary access.

TABLE TO § 784.4(a)(2)

Activity	Agency action	Location action
IAEA notification of complementary access.	BIS will transmit complementary access notification via facsimile to the owner, operator, occupant, or agent in charge of a location to ascertain whether or not the location: (1) Grants consent to complementary access; and (2) Requests BIS advance team support (subject to availability) in preparing for complementary access. If the location does not inform BIS of its consent to complementary access, within 4 hours of the time it receives notification from BIS, BIS will seek an administrative warrant.	Location must inform BIS, within 4 hours of its receipt of complementary access notification, whether or not it: (1) Grants consent to complementary access; and (2) Requests BIS advance team support (subject to availability) to prepare for complementary access. Location not required to reimburse U.S. Government for assistance from the BIS advance team.
Preparation for complementary access.	If a BIS advance team has been requested and is available, it will arrive at the location to be accessed and assist the location in making logistical and administrative preparations for complementary access.	The location will engage in activities that will prepare the location for complementary access (e.g., identifying any ITAR-controlled technology or national security information at the location), either singularly or in cooperation with a BIS advance team if one has been requested and is available.

(3) *Timing of notification*. In accordance with the Additional Protocol, the IAEA shall notify the United States Government of a complementary access request not less than 24 hours prior to the arrival of the IAEA Team at the location. BIS will provide written notice to the owner, operator, occupant or agent in charge of the location as soon as possible after BIS has received notification from the IAEA.

(b) *Duration of complementary access*. The duration of complementary access will depend upon the nature of the complementary access request and the activities that will be conducted at the location. (See § 784.3(b) of the APR for a description of the types of complementary access activities authorized under the APR.)

§ 784.5 Subsidiary arrangements.

(a) *General subsidiary arrangement*. The United States Government may conclude a general subsidiary arrangement with the IAEA that governs complementary access activities, irrespective of the location (i.e., an arrangement that is not location-specific).

(b) *Location-specific subsidiary arrangement*—(1) *Purpose*. If requested by the location or deemed necessary by the U.S. Government, the U.S. Government will negotiate a location-specific subsidiary arrangement with the IAEA. The purpose of such an arrangement is to establish procedures for conducting managed access at a specific declared location. If the location requests, it may participate in preparations for the negotiation of a location-specific subsidiary arrangement with the IAEA and may observe the negotiations to the maximum extent practicable. The existence of a location-specific subsidiary arrangement does not in any way limit the right of the owner, operator, occupant, or agent in charge of the location to withhold consent to a request for complementary access.

(2) *Format and content*. The form and content of a location-specific subsidiary arrangement will be determined by the IAEA and the U.S. Government, in consultation with the location, on a case-by-case basis.

§ 784.6 Post complementary access activities.

Upon receiving the IAEA's final report on complementary access, BIS will forward a copy of the report to the location for its review, in accordance with § 784.3(k)(2) of the APR. Locations may submit comments concerning the IAEA's final report to BIS, and BIS will consider them, as appropriate, when preparing its comments to the IAEA on the final report. BIS also will send locations a post complementary access letter detailing the issues that require follow-up action (see, for example, the *Amended Report* requirements in § 783.2(d) of the APR).

PART 785—ENFORCEMENT

Sec.
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AUTHORITY: United States Additional Protocol Implementation Act of 2006, Pub. Law No. 109–401, 120 Stat. 2726 (December 18, 2006) (to be codified at 22 U.S.C. 8101–8181); Executive Order 13458 (February 4, 2008).

SOURCE: 73 FR 65128, Oct. 31, 2008, unless otherwise noted.

§ 785.1 Scope and definitions.

(a) *Scope*. This Part 785 describes the sanctions that apply to violations of the Act and the APR. It also establishes detailed administrative procedures for certain violations of the Act. Violations for which the statutory basis is the Act are set forth in § 785.2 of the APR. BIS investigates these violations, prepares charges, provides legal representation to the U.S. Government, negotiates settlements, and initiates and resolves proceedings. The administrative procedures applicable to these violations are described in §§ 785.3 through 785.19 of the APR.

(b) *Definitions*. The following are definitions of terms as used only in part 785 of the APR. For definitions of terms applicable to parts 781 through 786 of the APR, unless otherwise noted in this paragraph or elsewhere in the APR, see part 781 of the APR.

The Act. The U.S. Additional Protocol Implementation Act of 2006 (Public Law 109–401, 120 Stat. 2726 (December 18, 2006)).

Assistant Secretary for Export Enforcement. The Assistant Secretary for Export Enforcement, Bureau of Industry and Security, United States Department of Commerce.

Final decision. A decision or order assessing a civil penalty, or otherwise disposing of or dismissing a case, which is not subject to further administrative review, but which may be subject to collection proceedings or judicial review in an appropriate Federal court as authorized by law.

Office of Chief Counsel. The Office of Chief Counsel for Industry and Security, United States Department of Commerce.

Recommended decision. A decision of the administrative law judge in proceedings involving violations of part 785 that is subject to review by the Secretary of Commerce, or a designated United States Government official.

Report. For the purposes of part 785 of the APR, the term ''report'' means any report required under parts 783 through 786 of the APR.

Respondent. Any person named as the subject of a letter of intent to charge, a Notice of Violation and Assessment (NOVA), or order.

Under Secretary, Bureau of Industry and Security. The Under Secretary, Bureau of Industry and Security, United States Department of Commerce.

§ 785.2 Violations of the Act subject to administrative and criminal enforcement proceedings.

(a) *Violations*—(1) *Refusal to permit entry or access*. No person may willfully fail or refuse to permit entry or access, or willfully disrupt, delay or otherwise impede complementary access, or an entry in connection with complementary access, authorized by the Act.

(2) *Failure to establish or maintain records*. No person may willfully fail or refuse to do any of the following:

(i) Establish or maintain any record required by the Act or the APR;

(ii) Submit any report, notice, or other information to the United States Government in accordance with the Act or the APR; or

(iii) Permit access to or copying of any record by the United States Government that is related to a person's obligations under the Act or the APR.

(b) *Civil penalties*—(1) *Civil penalty for refusal to permit entry or access.* Any person that is determined to have willfully failed or refused to permit entry or access, or to have willfully disrupted, delayed or otherwise impeded an authorized complementary access, as set forth in paragraph (a)(1) of this section, shall pay a civil penalty in an amount not to exceed $25,000 for each violation. Each day the violation continues constitutes a separate violation.

(2) *Civil penalty for failure to establish or maintain records.* Any person that is determined to have willfully failed or refused to establish or maintain any record, submit any report or other information required by the Act or the APR, or permit access to or copying of any record related to a person's obligations under the Act or the APR, as set forth in paragraph (a)(2) of this section, shall pay a civil penalty in an amount not to exceed $25,000 for each violation.

(c) *Criminal penalty.* Any person that is determined to have violated the Act by willfully failing or refusing to permit entry or access authorized by the Act; by willfully disrupting, delaying or otherwise impeding complementary access authorized by the Act; or by willfully failing or refusing to establish or maintain any required record, submit any required report or other information, or permit access to or copying of any record related to a person's obligations under the Act or the APR, as set forth in paragraph (a) of this section, shall, in addition to or in lieu of any civil penalty that may be imposed, be fined under Title 18 of the United States Code, be imprisoned for not more than five years, or both.

§ 785.3 Initiation of administrative proceedings.

(a) *Issuance of a Notice of Violation and Assessment (NOVA).* Prior to the initiation of an administrative proceeding through issuance of a NOVA, the Bureau of Industry and Security will issue a letter of intent to charge. The letter of intent to charge will advise a respondent that BIS has conducted an investigation. The letter will give the respondent a specified period of time to contact BIS to discuss settlement of the allegations set forth in the letter of intent to charge. If the respondent does not contact BIS in the time period specified in the letter of intent to charge, the Director of the Office of Export Enforcement, or such other Department of Commerce representative designated by the Assistant Secretary for Export Enforcement, may initiate an administrative enforcement proceeding under this § 785.3 by issuing a NOVA.

(b) *Content of a NOVA.* The NOVA shall constitute a formal complaint and will set forth the alleged violation(s) and the essential facts with respect to the alleged violation(s), reference the relevant statutory, regulatory or other provisions, and state the maximum amount of the civil penalty that could be assessed. The NOVA also will inform the respondent of the requirement to request a hearing pursuant to § 785.4 of the APR.

(c) *Service of a NOVA.* Service of the NOVA shall be made by certified mail or courier delivery with signed acknowledgment of receipt. The date of signed acknowledgment of receipt shall be the effective date of service of the NOVA. One copy of each paper shall be provided to each party in the delivery. BIS files the NOVA with the Administrative Law Judge (ALJ) at the same time that it is sent to the respondent. The ALJ, in turn, will place the case on its docket and will notify both the respondent and BIS of the docket information.

§ 785.4 Request for hearing and answer.

(a) *Deadline for answering the NOVA.* If the respondent wishes to contest the NOVA issued by BIS, the respondent must submit a written request for a hearing to BIS within 15 business days from the date of service of the NOVA. If the respondent requests a hearing, the respondent must answer the NOVA within 30 calendar days from the date of the request for hearing. The request for a hearing and the respondent's answer to the NOVA must be filed with the Administrative Law Judge (ALJ), along with a copy of the NOVA, and served on the Office of Chief Counsel,

and any other address(es) specified in the NOVA, in accordance with § 785.6 of the APR.

(b) *Content of respondent's answer*. The respondent's answer must be responsive to the NOVA and must fully set forth the nature of the respondent's defense(s). The answer must specifically admit or deny each separate allegation in the NOVA; if the respondent is without knowledge, the answer will so state and this will serve as a denial. Failure to deny or controvert a particular allegation will be deemed to be an admission of that allegation. The answer must also set forth any additional or new matter that the respondent contends will support a defense or claim of mitigation. Any defense or partial defense not specifically set forth in the answer shall be deemed to be waived, and evidence supporting that defense or partial defense may be refused, except for good cause shown.

(c) *English required*. The request for hearing, the answer to the NOVA, and all other papers and documentary evidence must be submitted in English.

(d) *Waiver*. The failure of the respondent to file a request for a hearing and an answer within the times prescribed in paragraph (a) of this section constitutes a waiver of the respondent's right to appear and contest the allegations set forth in the NOVA. If no hearing is requested and no answer is provided, a final order will be signed by the Secretary of Commerce, or by a designated United States Government official, and will constitute final agency action in the case.

§ 785.5 Representation.

An individual respondent may appear, in person, or be represented by a duly authorized officer or employee. A partner may appear on behalf of a partnership, or a duly authorized officer or employee of a corporation may appear on behalf of the corporation. If a respondent is represented by counsel, counsel shall be a member in good standing of the bar of any State, Commonwealth or Territory of the United States, or of the District of Columbia, or be licensed to practice law in the country in which counsel resides, if not the United States. The U.S. Government will be represented by the Office of Chief Counsel. A respondent personally, or through counsel or other representative who has the power of attorney to represent the respondent, shall file a notice of appearance with the ALJ, or, in cases where settlement negotiations occur before any filing with the ALJ, with the Office of Chief Counsel.

§ 785.6 Filing and service of papers other than the Notice of Violation and Assessment (NOVA).

(a) *Filing*. All papers to be filed with the ALJ shall be addressed to ''Additional Protocol Administrative Enforcement Proceedings,'' at the address set forth in the NOVA, or such other place as the ALJ may designate. Filing by United States certified mail, by express or equivalent parcel delivery service, via facsimile, or by hand delivery is acceptable. Filing from a foreign country shall be by airmail, via facsimile, or by express or equivalent parcel delivery service. A copy of each paper filed shall be simultaneously served on all parties.

(b) *Service*. Service shall be made by United States certified mail, by express or equivalent parcel delivery service, via facsimile, or by hand delivery of one copy of each paper to each party in the proceeding. Service on the government party in all proceedings shall be addressed to Office of Chief Counsel for Industry and Security, U.S. Department of Commerce, 14th Street and Constitution Avenue, NW., Room H–3839, Washington, DC 20230, or sent via facsimile to (202) 482–0085. Service on a respondent shall be to the address to which the NOVA was sent, or to such other address as the respondent may provide. When a party has appeared by counsel or other representative, service on counsel or other representative shall constitute service on that party.

(c) *Date*. The date of filing or service is the day when the papers are deposited in the mail or are delivered in person, by delivery service, or by facsimile. Refusal by the person to be served, or by the person's agent or attorney, of service of a document or other paper will be considered effective service of the document or other paper as of the date of such refusal.

(d) *Certificate of service.* A certificate of service signed by the party making service, stating the date and manner of service, shall accompany every paper, other than the NOVA, filed and served on the parties.

(e) *Computation of time.* In computing any period of time prescribed or allowed by this part, the day of the act, event, or default from which the designated period of time begins to run is not to be included. The last day of the period is to be included in the computation unless it is a Saturday, a Sunday, or a legal holiday (as defined in Rule 6(a) of the Federal Rules of Civil Procedure). In such instance, the period runs until the end of the next day that is neither a Saturday, a Sunday, nor a legal holiday. Intermediate Saturdays, Sundays, and legal holidays are excluded from the computation when the period of time prescribed or allowed is 7 days or less—there is no cap on the period of time to which this exclusion applies, whenever the period of time prescribed or allowed by this part is computed in business days, rather than calendar days.

§ 785.7 Summary decision.

The ALJ may render a summary decision disposing of all or part of a proceeding on the motion of any party to the proceeding, provided that there is no genuine issue as to any material fact and the party is entitled to summary decision as a matter of law.

§ 785.8 Discovery.

(a) *General.* The parties are encouraged to engage in voluntary discovery regarding any matter, not privileged, which is relevant to the subject matter of the pending proceeding. The provisions of the Federal Rules of Civil Procedure relating to discovery apply to the extent consistent with this part and except as otherwise provided by the ALJ or by waiver or agreement of the parties. The ALJ may make any order which justice requires to protect a party or person from annoyance, embarrassment, oppression, or undue burden or expense. These orders may include limitations on the scope, method, time and place of discovery, and provisions for protecting the confidentiality of classified or otherwise sensitive information, including Confidential Business Information (CBI) as defined by the Act.

(b) *Interrogatories and requests for admission or production of documents.* A party may serve on any party interrogatories, requests for admission, or requests for production of documents for inspection and copying, and a party may apply to the ALJ for such enforcement or protective order as that party deems warranted with respect to such discovery. The service of a discovery request shall be made at least 30 calendar days before the scheduled date of the hearing unless the ALJ specifies a shorter time period. Copies of interrogatories, requests for admission and requests for production of documents and responses thereto shall be served on all parties and a copy of the certificate of service shall be filed with the ALJ at least 5 business days before the scheduled date of the hearing. Matters of fact or law of which admission is requested shall be deemed admitted unless, within a period designated in the request (at least 10 business days after service, or within such additional time as the ALJ may allow), the party to whom the request is directed serves upon the requesting party a sworn statement either denying specifically the matters of which admission is requested or setting forth in detail the reasons why the party to whom the request is directed cannot either admit or deny such matters.

(c) *Depositions.* Upon application of a party and for good cause shown, the ALJ may order the taking of the testimony of any person by deposition and the production of specified documents or materials by the person at the deposition. The application shall state the purpose of the deposition and set forth the facts sought to be established through the deposition.

(d) *Enforcement.* The ALJ may order a party to answer designated questions, to produce specified documents or things or to take any other action in response to a proper discovery request. If a party does not comply with such an order, the ALJ may make a determination or enter any order in the proceeding as the ALJ deems reasonable and appropriate. The ALJ may strike related charges or defenses in whole or

in part or may take particular facts relating to the discovery request to which the party failed or refused to respond as being established for purposes of the proceeding in accordance with the contentions of the party seeking discovery. In addition, enforcement by any district court of the United States in which venue is proper may be sought as appropriate.

§ 785.9 Subpoenas.

(a) *Issuance*. Upon the application of any party, supported by a satisfactory showing that there is substantial reason to believe that the evidence would not otherwise be available, the ALJ may issue subpoenas to any person requiring the attendance and testimony of witnesses and the production of such books, records or other documentary or physical evidence for the purpose of the hearing, as the ALJ deems relevant and material to the proceedings, and reasonable in scope. Witnesses shall be paid the same fees and mileage that are paid to witnesses in the courts of the United States. In case of contempt, challenge or refusal to obey a subpoena served upon any person pursuant to this paragraph, any district court of the United States, in which venue is proper, has jurisdiction to issue an order requiring any such person to comply with a subpoena. Any failure to obey an order of the court is punishable by the court as a contempt thereof.

(b) *Service*. Subpoenas issued by the ALJ may be served by any of the methods set forth in § 785.6(b) of the APR.

(c) *Timing*. Applications for subpoenas must be submitted at least 10 business days before the scheduled hearing or deposition, unless the ALJ determines, for good cause shown, that extraordinary circumstances warrant a shorter time.

§ 785.10 Matters protected against disclosure.

(a) *Protective measures*. The ALJ may limit discovery or introduction of evidence or issue such protective or other orders as in the ALJ's judgment may be needed to prevent undue disclosure of classified or sensitive documents or information. Where the ALJ determines that documents containing classified or sensitive matter must be made available to a party in order to avoid prejudice, the ALJ may direct the other party to prepare an unclassified and nonsensitive summary or extract of the documents. The ALJ may compare the extract or summary with the original to ensure that it is supported by the source document and that it omits only so much as must remain undisclosed. The summary or extract may be admitted as evidence in the record.

(b) *Arrangements for access*. If the ALJ determines that the summary procedure outlined in paragraph (a) of this section is unsatisfactory, and that classified or otherwise sensitive matter must form part of the record in order to avoid prejudice to a party, the ALJ may provide the parties with the opportunity to make arrangements that permit a party or a representative to have access to such matter without compromising sensitive information. Such arrangements may include obtaining security clearances or giving counsel for a party access to sensitive information and documents subject to assurances against further disclosure, including a protective order, if necessary.

§ 785.11 Prehearing conference.

(a) On the ALJ's own motion, or on request of a party, the ALJ may direct the parties to participate in a prehearing conference, either in person or by telephone, to consider:

(1) Simplification of issues;

(2) The necessity or desirability of amendments to pleadings;

(3) Obtaining stipulations of fact and of documents to avoid unnecessary proof; or

(4) Such other matters as may expedite the disposition of the proceedings.

(b) The ALJ may order the conference proceedings to be recorded electronically or taken by a reporter, transcribed and filed with the ALJ.

(c) If a prehearing conference is impracticable, the ALJ may direct the parties to correspond with the ALJ to achieve the purposes of such a conference.

(d) The ALJ will prepare a summary of any actions agreed on or taken pursuant to this section. The summary

will include any written stipulations or agreements made by the parties.

§ 785.12 Hearings.

(a) *Scheduling*. Upon receipt of a valid request for a hearing, the ALJ shall, by agreement with all the parties or upon notice to all parties of at least 30 calendar days from the date of receipt of a request for a hearing, schedule a hearing. All hearings will be held in Washington, DC, unless the ALJ determines, for good cause shown, that another location would better serve the interest of justice.

(b) *Hearing procedure*. Hearings will be conducted in a fair and impartial manner by the ALJ. All hearings will be closed, unless the ALJ for good cause shown determines otherwise. The rules of evidence prevailing in courts of law do not apply, and all evidentiary material deemed by the ALJ to be relevant and material to the proceeding and not unduly repetitious will be received and given appropriate weight, except that any evidence of settlement which would be excluded under Rule 408 of the Federal Rules of Evidence is not admissible. Witnesses will testify under oath or affirmation, and shall be subject to cross-examination.

(c) *Testimony and record*. (1) A verbatim record of the hearing and of any other oral proceedings will be taken by reporter or by electronic recording, and filed with the ALJ. If any party wishes to obtain a written copy of the transcript, that party shall pay the costs of transcription. The parties may share the costs if both want a transcript.

(2) Upon such terms as the ALJ deems just, the ALJ may direct that the testimony of any person be taken by deposition and may admit an affidavit or report as evidence, provided that any affidavits or reports have been filed and served on the parties sufficiently in advance of the hearing to permit a party to file and serve an objection thereto on the grounds that it is necessary that the affiant or declarant testify at the hearing and be subject to cross-examination.

(d) *Failure to appear*. If a party fails to appear in person or by counsel at a scheduled hearing, the hearing may nevertheless proceed. The party's failure to appear will not affect the validity of the hearing or any proceeding or action taken thereafter.

§ 785.13 Procedural stipulations.

Unless otherwise ordered and subject to § 785.14 of the APR, a written stipulation agreed to by all parties and filed with the ALJ will modify the procedures established by this part.

§ 785.14 Extension of time.

The parties may extend any applicable time limitation by stipulation filed with the ALJ before the time limitation expires, or the ALJ may, on the ALJ's own initiative or upon application by any party, either before or after the expiration of any applicable time limitation, extend the time, except that the requirement that a hearing be demanded within 15 calendar days, and the requirement that a final agency decision be made within 60 calendar days, may not be modified.

§ 785.15 Post-hearing submissions.

All parties shall have the opportunity to file post-hearing submissions that may include findings of fact and conclusions of law, supporting evidence and legal arguments, exceptions to the ALJ's rulings or to the admissibility of evidence, and orders and settlements.

§ 785.16 Decisions.

(a) *Recommended decision and order*. After considering the entire record in the case, the ALJ will issue a recommended decision based on a preponderance of the evidence. The decision will include findings of fact, conclusions of law, and a decision based thereon as to whether the respondent has violated the Act. If the ALJ finds that the evidence of record is insufficient to sustain a finding that a violation has occurred with respect to one or more allegations, the ALJ shall order dismissal of the allegation(s) in whole or in part, as appropriate. If the ALJ finds that one or more violations have been committed, the ALJ shall issue an order imposing administrative sanctions.

(b) *Factors considered in assessing penalties*. In determining the amount of a civil penalty, the ALJ shall take into account the nature, circumstances, extent and gravity of the violation(s),

and, with respect to the respondent, the respondent's ability to pay the penalty, the effect of a civil penalty on the respondent's ability to continue to do business, the respondent's history of prior violations, and such other matters as justice may require.

(c) *Referral of recommended decision and order*. The ALJ shall immediately issue and serve the recommended decision (and order, if appropriate) to the Office of Chief Counsel, at the address in § 785.6(b) of the APR, and to the respondent, by courier delivery or overnight mail. The recommended decision and order will also be referred to the head of the designated executive agency for final decision and order.

(d) *Final decision and order*. The recommended decision and order shall become the final agency decision and order unless, within 60 calendar days, the Secretary of Commerce, or a designated United States Government official, modifies or vacates it, or unless an appeal has been filed pursuant to paragraph (e) of this section.

(e) *Appeals*. The respondent may appeal the final agency decision within 30 calendar days after the date of certification. Petitions for appeal may be filed in the Court of Appeals for the District of Columbia Circuit or in the Court of Appeals for the district in which the violation occurred.

§ 785.17 Settlement.

(a) *Settlements before issuance of a NOVA*. When the parties have agreed to a settlement of the case prior to issuance of a NOVA, a settlement proposal consisting of a settlement agreement and order will be submitted to the Assistant Secretary for Export Enforcement for approval and signature. If the Assistant Secretary does not approve the proposal, he/she will notify the parties and the case will proceed as though no settlement proposal has been made. If the Assistant Secretary approves the proposal, he/she will issue an appropriate order, and no action will be required by the ALJ.

(b) *Settlements following issuance of a NOVA*. The parties may enter into settlement negotiations at any time during the time a case is pending before the ALJ. If necessary, the parties may extend applicable time limitations or otherwise request that the ALJ stay the proceedings while settlement negotiations continue. When the parties have agreed to a settlement of the case, the Office of Chief Counsel will recommend the settlement to the Assistant Secretary for Export Enforcement, forwarding a proposed settlement agreement and order, which the Assistant Secretary will approve and sign. If a NOVA has been filed, the Office of Chief Counsel will send a copy of the settlement proposal to the ALJ.

(c) *Settlement scope*. Any respondent who agrees to an order imposing any administrative sanction does so solely for the purpose of resolving the claims in the administrative enforcement proceeding brought under this Part. The government officials involved have neither the authority nor the responsibility for initiating, conducting, settling, or otherwise disposing of criminal proceedings. That authority and responsibility are vested in the Attorney General and the Department of Justice.

(d) *Finality*. Cases that are settled may not be reopened or appealed, absent a showing of good cause. Appeals and requests to reopen settled cases must be submitted to the Assistant Secretary for Export Enforcement within 30 calendar days of the execution of a settlement agreement.

§ 785.18 Record for decision.

(a) *The record*. The transcript of hearings, exhibits, rulings, orders, all papers and requests filed in the proceedings, and, for purposes of any appeal under § 785.16 of the APR, the decision of the ALJ and such submissions as are provided for under § 785.16 of the APR will constitute the record and the exclusive basis for decision. When a case is settled, the record will consist of any and all of the foregoing, as well as the NOVA or draft NOVA, settlement agreement, and order.

(b) *Restricted access*. On the ALJ's own motion, or on the motion of any party, the ALJ may direct that there be a restricted access portion of the record for any material in the record to which public access is restricted by law or by the terms of a protective order entered in the proceedings. A party seeking to restrict access to any portion of the record is responsible, prior

to the close of the proceeding, for submitting a version of the document(s) proposed for public availability that reflects the requested deletion. The restricted access portion of the record will be placed in a separate file and the file will be clearly marked to avoid improper disclosure and to identify it as a portion of the official record in the proceedings. The ALJ may act at any time to permit material that becomes declassified or unrestricted through passage of time to be transferred to the unrestricted access portion of the record.

(c) *Availability of documents*—(1) *Scope*. All NOVAs and draft NOVAs, answers, settlement agreements, decisions and orders disposing of a case will be displayed on the BIS Freedom of Information Act (FOIA) Web site, at *http://www.bis.doc.gov/foia,* which is maintained by the Office of Administration, Bureau of Industry and Security, U.S. Department of Commerce. The Office of Administration does not maintain a separate inspection facility. The complete record for decision, as defined in paragraphs (a) and (b) of this section will be made available on request.

(2) *Timing*. The record for decision will be available only after the final administrative disposition of a case. Parties may seek to restrict access to any portion of the record under paragraph (b) of this section.

§ 785.19 Payment of final assessment.

(a) *Time for payment*. Full payment of the civil penalty must be made within 30 days of the effective date of the order or within such longer period of time as may be specified in the order. Payment shall be made in the manner specified in the NOVA.

(b) *Enforcement of order*. The government party may, through the Attorney General, file suit in an appropriate district court if necessary to enforce compliance with a final order issued under the APR. This suit will include a claim for interest at current prevailing rates from the date of expiration of the 60-day period referred to in § 785.16(d), or the date of the final order, as appropriate.

(c) *Offsets*. The amount of any civil penalty imposed by a final order may be deducted from any sum(s) owed by the United States to a respondent.

§ 785.20 Reporting a violation.

If a person learns that a violation of the Additional Protocol, the Act, or the APR has occurred or may occur, that person may notify: Office of Export Enforcement, Bureau of Industry and Security, U.S. Department of Commerce, 14th Street and Constitution Avenue, NW., Room H–4520, Washington, DC 20230; Tel: (202) 482–1208; Facsimile: (202) 482–0964.

PART 786—RECORDS AND RECORDKEEPING

Sec.

786.1 Inspection of records.
786.2 Recordkeeping.
786.3 Destruction or disposal of records.

AUTHORITY: United States Additional Protocol Implementation Act of 2006, Pub. Law No. 109–401, 120 Stat. 2726 (December 18, 2006) (to be codified at 22 U.S.C. 8101–8181); Executive Order 13458 (February 4, 2008).

SOURCE: 73 FR 65128, Oct. 31, 2008, unless otherwise noted.

§ 786.1 Inspection of records.

Upon request by BIS, you must permit access to and copying of any record relating to compliance with the requirements of the APR. This requires that you make available the equipment and, if necessary, knowledgeable personnel for locating, reading, and reproducing any record. Copies may be necessary to facilitate IAEA Team review of documents during complementary access. The IAEA Team may not remove these documents from the location without BIS authorization (see § 784.3(j)(2) of the APR).

§ 786.2 Recordkeeping.

(a) *Requirements*. Each person and location required to submit a report or correspondence under parts 782 through 784 of the APR must retain all supporting materials and documentation used to prepare such report or correspondence.

(b) *Three year retention period*. All supporting materials and documentation required to be kept under paragraph (a) of this section must be retained for three years from the due

date of the applicable report or for three years from the date of submission of the applicable report, whichever is later. Due dates for reports and correspondence are indicated in parts 782 through 784 of the APR.

(c) *Location of records.* Records retained under this section must be maintained at the location or must be accessible at the location for purposes of complementary access at the location by IAEA Teams.

(d) *Reproduction of original records.* (1) You may maintain reproductions instead of the original records, provided all of the requirements of paragraph (b) of this section are met.

(2) If you must maintain records under this part, you may use any photostatic, miniature photographic, micrographic, automated archival storage, or other process that completely, accurately, legibly and durably reproduces the original records (whether on paper, microfilm, or through electronic digital storage techniques). The process must meet all of the following requirements, which are applicable to all systems:

(i) The system must be capable of reproducing all records on paper.

(ii) The system must record and be able to reproduce all marks, information, and other characteristics of the original record, including both obverse and reverse sides (unless blank) of paper documents in legible form.

(iii) When displayed on a viewer, monitor, or reproduced on paper, the records must exhibit a high degree of legibility and readability. For purposes of this section, legible and legibility mean the quality of a letter or numeral that enable the observer to identify it positively and quickly to the exclusion of all other letters or numerals. Readable and readability mean the quality of a group of letters or numerals being recognized as complete words or numbers.

(iv) The system must preserve the initial image (including both obverse and reverse sides, unless blank, of paper documents) and record all changes, who made them and when they were made. This information must be stored in such a manner that none of it may be altered once it is initially recorded.

(v) You must establish written procedures to identify the individuals who are responsible for the operation, use and maintenance of the system.

(vi) You must keep a record of where, when, by whom, and on what equipment the records and other information were entered into the system.

(3) *Requirements applicable to a system based on digital images.* For systems based on the storage of digital images, the system must provide accessibility to any digital image in the system. The system must be able to locate and reproduce all records according to the same criteria that would have been used to organize the records had they been maintained in original form.

(4) *Requirements applicable to a system based on photographic processes.* For systems based on photographic, photostatic, or miniature photographic processes, the records must be maintained according to an index of all records in the system following the same criteria that would have been used to organize the records had they been maintained in original form.

§ 786.3 Destruction or disposal of records.

If BIS or any other authorized U.S. government agency makes a formal or informal request for a certain record or records, such record or records may not be destroyed or disposed of without the written authorization of the requesting entity.

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FINDING AIDS

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List of CFR Sections Affected

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732 Authority citation revised 56767
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734 Authority citation revised 56767
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736 Authority citation revised 56767
738 Authority citation revised 56767
738.3 (a)(1) revised 39367
738 Supplement No. 1 amended 42975
738.1 (a)(3) added 22198
740 Technical correction 3386
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740.1 (d) heading correctly revised; CFR correction 40493
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742.6 (a)(1) amended 1018
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743 Supplement No. 1 amended 39369
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748 Supplement No. 7 amended 10955, 39369, 40260
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762 Authority citation revised 56768
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768 Authority citation revised 56768
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774 Authority citation revised 56769
774.1 Revised 22199
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Supplement No. 1, Category 0 (ECCN 0E918, 0E984) and Category 1 (ECCN 1A005, 1A008, 1B018, 1C018, 1D018) amended 42977
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732 Supplement No. 2 amended 13468
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734 Authority citation revised 13468, 22707, 76740
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748.1 (d)(2) amended 13469
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748.8 (w) and (x) added 22724
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754 Authority citation revised 76741
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764 Supplement No. 1 amended 22727
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730 Supplement No. 1 amended 51729
Supplement No. 1 correctly amended 70676
732 Authority citation revised 51730, 52960
732.5 (b) amended 51730
732.6 (d) removed 51730
734 Authority citation revised 52960, 76384
734.4 (a)(6)(ii) revised 43317
(a)(4) amended; CFR correction 69588
736 Authority citation revised 29530, 52960, 76384
736.2 (b)(3)(iii) heading revised 39954
(b)(3)(i) and (iii) revised 43317
736 Supplement No. 1 amended 2289, 43318
738 Authority citation revised 51730, 52960
738.4 (b)(3) amended 51730
738 Supplement No. 1 amended 3465, 4778, 29441, 29533
Supplement No. 1 correctly amended 75635
Supplement No. 1 amended; CFR correction 76629
740 Authority citation revised 52960
740.2 (a)(4)(i) revised 3465
(a)(6) revised 4778
740.6 (a)(1) and (2) amended 43318
740.9 (a)(1) amended; (a)(2) removed 8523
(a)(2) correctly added 52963
740.11 (c)(1) revised 29442
740.12 (a) note removed 2289
740.15 (a) note, (b)(4), (d)(6) and (d) note added 56902
740.16 (a) introductory text, (b)(1) and (3) revised 29442
740.18 (b)(3) amended 56902
740.19 (a) and (b) revised; (c) removed; (d) redesignated as new (c) 2289
(a), (b) introductory text and (c) revised; (b)(16) and (17) amended; (b)(18) and note added 8523
(a) amended 56902
740.20 (b)(2)(v) amended 34271
(d)(2) introductory text revised 39955
740.21 Added 2289

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(b) introductory text and (d)(1) amended; (c)(2) introductory text revised; (c)(2)(iii) and (iv) redesignated as (c)(2)(iv) and (v); new (c)(2)(iii), (d)(4), (e) and (f) added 56902
740 Supplement No. 1 amended 29442, 29533, 43318
Supplement No. 1 correctly amended 75635
742 Authority citation revised 52960, 76384
742.1 (d) amended 43318
742.2 (a)(1)(i) amended 34271
742.4 (a) revised 29443
742.6 (a)(4)(i) revised 3466
(a)(2)(iii), (v), (3), (4)(i) and (ii) revised 29443
742.10 (a)(2) amended; (b) note redesignated as (b)(3) note; (b)(3) and new note revised 8523
742.17 (a) and (b) amended; (g) revised 13217
742 Supplement No. 1 amended 34271
Supplement No. 2 amended 43318
743 Authority citation revised 51730, 52961
743.1 (b)(1) amended; (g) and (h) revised 29444
(b)(2) removed 51730
743.3 (b) revised 29444
(b) correctly revised 75635
743.4 (b)(2) removed 51730
744 Authority citation revised 8520, 52961, 61101, 76384
744.21 (a)(2) revised 39955
744 Supplement No. 6 amended 4781, 60532
Supplement No. 4 amended 8527, 22640, 31836, 44849, 47404, 69856, 80646
Supplement No. 4 corrected 35195
Supplement No. 4 corrected; CFR correction 81744
745 Authority citation revised 76384
746 Authority citation revised 29530, 29533, 52961
746.2 (a)(1)(xiv) and (b)(6) added; (b)(2), (4)(i) and (ii) revised 2290
(b)(3) and (c) removed; (b)(4), (5), (6), (d) and (e) redesignated as new (b)(3), (4), (5), (c) and (d); new (b)(3)(i) amended; new (d) revised 43318

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(a) introductory text and (1)(x) revised; (a)(2) and (b)(6) added 56904
746.5 (a)(2) revised 47405
746.6 Added 4778
(a) revised 13217, 29533
747 Authority citation revised 52961
748 Authority citation revised 51730, 52961
748.1 (d) introductory text amended 51730
748.4 (h) amended 51730
748.7 (a) and (d) amended 51730
748.8 (d) removed 2290
748.9 Revised 13217
(c)(1)(vi) removed 51730
748.10 Revised 13218
748.11 Revised 13219
748.12 Revised 13219
748.13 Revised 13220
748.14 Removed 13221
748 Supplement No. 2 amended 2291, 39955, 43318
Supplement No. 7 amended 11864, 65932
Supplement No. 3 revised 13221
Supplement No. 4 removed 13222
Supplement No. 1 amended 51730
750 Authority citation revised 52961
750.4 (b)(6)(i) amended 43319
752 Removed 51730
Authority citation revised 52961
752.3 (a)(2) amended 34272
754 Authority citation revised 52961
756 Authority citation revised 52961
758 Authority citation revised 52961
758.1 (b)(9) added 3466
(b)(1) amended 43319
758.2 (b)(3) amended 43319
758.6 (c) added 3466
760 Authority citation revised 52961
762 Authority citation revised 51730, 52961
762.1 (b) amended; CFR correction 78651
762.2 (b)(22) and (24) revised; (b)(25) removed 13222
(b)(31) through (38) removed 51730
764 Authority citation revised 52961
766 Authority citation revised 52961
768 Authority citation revised 52961
770 Authority citation revised 52961
772 Authority citation revised 51730, 52961
772.1 Amended 4779, 29444, 43319, 51730, 56904

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Correctly amended 75635
Amended; CFR correction 78651
774 Authority citation revised 51730, 52961
774 Supplement No. 1, Category 1 (ECCN 1C111) amended 18524
Supplement No. 1, Category 3 (ECCN 3A101) and Category 9 (ECCN 9A106, 9A110, 9A604, 9A610) amended 18525
Supplement No. 1, Category 6 (ECCN 6C992) corrected; CFR correction.....21159
Supplement No. 1, Category 0 (ECCN 0A606), Category 1 (ECCN 1A613, 1C002, 1C007, 1C008, 1C010, 1E002) and Category 2 (ECCN 2B001, 2B002, 2B003, 2B004, 2B005, 2B006, 2B007, 2B008, 2B009, 2B201, 2B290, 2B991, 2B992, 2B993, 2B994, 2B995, 2B996, 2B997, 2B998, 2B999 Technical Notes) amended 29446
Supplement No. 1, Category 2 (ECCN 2B001) and Category 3 (ECCN 3A001) amended 29447
Supplement No. 1, Category 3 (ECCN 3A002, 3A991, 3B001) amended 29448
Supplement No. 1, Category 3 (ECCN 3D001, 3E001), Category 4 (ECCN 4D001, 4D002, 4E001) and EAR99 Technical Note amended 29449
Supplement No. 1, Category 5 (ECCN 5A002, 5D001, 5D002, 5E001, 5E002, Part 2 Note 1) and Category 6 (ECCN 6A001) amended 29450
Supplement No. 1, Category 6 (ECCN 6A003, 6A004) amended 29451
Supplement No. 1, Category 6 (ECCN 6A005, 6C005, 6D003) and Category 7 (ECCN 7A003, 7D004, 7E001).....29452
Supplement No. 1, Category 7 (ECCN 7E004), Category 8 (ECCN 8A001, 8A002, 8A620, 8E002) and Category 9 (ECCN 9A001) amended 29453
Supplement No. 1, Category 9 (ECCN 9A003, 9A004, 9A010, 9A012) amended 29454

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Supplement No. 1, Category 9 (ECCN 9B001, 9B010, 9D003, 9D004, 9D005, 9E003, Supplement No. 5 and Supplement No. 6 amended 29455
Supplement No. 1, Category 1 (ECCN 1C350, 1C351) amended 34272
Supplement No. 1, Category 1 (ECCN 1C352, 1C353, 1C991, 1E001) amended 34273
Supplement No. 1, Category 1 (ECCN 1E351) and Category 2 (ECCN 2B350) amended 34274
Supplement No. 1, Category 3 (ECCN 3A611) amended 39955
Supplement No. 1, Category 9 (ECCN 9A515, 9D001, 9D002) amended 39956
Supplement No. 1, Category 9 (ECCN 9D515, 9E001, 9E002, 9E515) amended 39957
Supplement No. 1, Category 1 (ECCN 1C350, 1C355, 1C395) and Category 2 (ECCN 2A994, 2D994) amended 43319
Supplement No. 1, Category 2 (ECCN 2E994) and Category 4 (ECCN 4A003) amended 43320
Supplement No. 1 amended.....51730
Supplement No. 1, Category 1 (ECCN 1C351) corrected 56370
Supplement No. 5 revised; interim 70678
Supplement No. 1, Category 8 (ECCN 8A620) and Category 9 (ECCN 9A004) correctly amended.....75635
Supplement No. 1, Category 9 (ECCN 9A010) correctly amended.....75636
Supplement No. 1, Category 2 (ECCN 2B008, 2B009) corrected; CFR correction 76629
Supplement No. 1, Category 9 (ECCN 9E003) amended; CFR correction.....81744

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700 Authority citation revised 10084

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701 Authority citation revised 10084
701.2 (a) and (b) revised 10474
701.3 (a) revised 10474
702 Authority citation revised 10084
705 Authority citation revised 10084
710 Supplement No. 1 amended 36462
730 Authority citation revised 10084, 29485, 44771, 60255, 78714, 87425
730 Supplement No. 1 amended 29485, 64668
Supplement No. 1 amended; eff. 1-4-17 87425
732 Authority citation revised 10084, 60255
734 Authority citation revised 10084, 60255
734.2 Heading revised; (b) removed 35602
734.3 (b) introductory text, (3), and Note to (2) and (3) revised; (b)(3) Note added 35602
(a)(4) Note revised; (b)(2) and (3) Note amended 64668
734.4 (a)(1) and (b) revised 64668
(a)(3) removed; (a)(5) revised 70331
734.7 Revised 35602
(b) amended 64668
734.8 Revised 35603
734.9 Removed 35603
734.10 Revised 35603
734.11 Removed 35603
734.13 Added 35603
734.14 Added 35604
734.15 Added 35604
734.16 Added 35604
734.17 Added 35604
(b)(2) amended 64668
734.18 Added 35604
734.19 Added 35605
734.20 Added 35605
734 Supplement No. 1 removed 35606
736 Authority citation revised 10084, 44771, 60256
736.2 (b)(8)(i) revised 13974
738 Authority citation revised 10085, 44771, 60256
738.2 (d)(1)(ii) and (2)(iv)(C)(*3*) amended 85144
738.4 (a)(2)(ii)(B) revised 64668
738 Supplement No. 1 amended 76861
740 Authority citation revised 10085, 60256
740.2 (a)(7) added; (a)(9) removed 70332
740.5 (d) removed 64669
740.7 (a), (c)(3) and (d)(3) revised; (d)(4) removed 64669

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740.9 (a)(3) revised 35606
(a)(11) revised 49527
(a)(8) and (14) introductory text revised; eff. 1-3-17 86573
740.11 (a)(2)(iii) and (c)(3)(iii) revised 64669
740.12 (a)(2)(v)(A) and (B) revised 71366
740.13 (e) removed 64669
740.14 (h)(1) and (2) revised 49528
740.15 (d)(6) revised 13974
(b)(3) introductory text revised; (c)(3) note removed 29485
Introductory text and (d)(6) revised; second (d) note removed; (e) redesignated as (f); new (e) added 71366
740.16 (a)(2), (b)(1), (2) and (3) revised 70332
740.17 Revised 64669
740.19 (c)(2)(i) and (ii) revised 71367
740.20 (b)(2)(ii) and (x) revised 70332
740.21 (e)(1) and note revised; (e)(2) removed; (e)(3) redesignated as new (e)(2) 13974
(b)(2) and (3) amended; (b)(4) added; (d)(4)(ii) and (iii) revised 71367
740 Supplement No. 3 amended 64673
Supplement No. 1 amended 76861, 94963
742 Authority citation revised 10085, 60256
742.1 (b)(1) amended 29486
742.2 (a)(2)(vi), (x)(B) and (xi) amended 85144
(b)(4) revised 94967
742.3 (b)(4) revised 94967
742.4 (b)(7) revised 94967
742.5 (b)(3) and (4) redesignated as (b)(4) and (5); new (b)(3) added 19030
(d) amended 76861
742.6 (b)(1) revised 70332
742.10 (a)(2) amended 64673
742.15 (a) and (b) revised; (c) and (d) removed 64673
742 Supplement No. 5 removed; Supplement No. 6 amended 64674
Supplement No. 8 amended 64675
743 Authority citation revised 10085, 60256
743.2 (b) revised 64675
744 Authority citation revised 10085, 55373, 78715

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744.1 (a)(1) amended; (c) removed 64695
744.7 (b)(3)(i) and (ii) revised 29486
744.9 Heading, (a) and (b) revised 70333
744.16 Revised 64695
744.22 Removed 94963
744 Supplement No. 4 amended 8829, 12006, 14958, 40178, 57454, 61601, 64676, 64696, 90714, 94968
Supplement No. 7 added; eff. 3-24-16 through 6-30-16 15635
Supplement No. 6 amended 40171
Regulation at 81 FR 15635 expiration date extended to 8-30-16 41799
Supplement No. 7 amended; eff. 6-28-16 through 8-30-16 41800
Supplement No. 7 amended; eff. 8-19-16 through 11-28-16 55373
Supplement No. 7 amended; eff. through 2-27-17 81664
Supplement No. 2 amended 85144
745 Supplement No. 2 amended 36462
746 Authority citation revised 10085, 44771, 60256
746.1 (b)(2) amended 76861
746.2 (b)(2) and (3) revised; (b)(4), (5) and (6) removed 4582
(b)(3)(i)(B) and (C) amended; (b)(3)(i)(D) added; (b)(3)(i) Note 1 revised 13974
(a)(1)(x) revised 71367
746.7 (a)(1) amended 29486
747 Authority citation revised 10085, 60256
747 Removed; eff. 1-4-17 87426
748 Authority citation revised 10085, 60256
748.1 (a) and (d) introductory text revised 64676
(d) amended; eff. 1-4-17 87426
748.3 Heading and (d) revised; (a) amended 64676
748.7 (a) and (d) revised 64676
(a) and (d) amended; eff. 1-4-17 87426
748.8 (r) amended; (s) and (t) removed 64676
748.9 (c)(1)(viii) revised 64676
748 Supplement No. 7 amended 40785, 61106, 64677, 85145
Supplements No. 1 and No. 2 amended 64676
Supplement No. 7 amended 87427
750 Authority citation revised 10085, 60256

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750.7 (c)(1)(ix) amended; (c)(1)(x) added 19030
(a) revised 35606
754 Authority citation revised 10085, 29486, 60256
754.1 (b)(1)(i) removed 29486
754.2 Removed 29486
754 Supplement No. 1 amended; Supplement No. 3 removed 29486
756 Authority citation revised 10085, 60256
758 Authority citation revised 10085, 54731, 60256
758.6 Revised 54731
760 Authority citation revised 10085, 60256
760.5 (b)(4) through (7) revised 70934
762 Authority citation revised 10085, 60256
762.2 (b)(39) removed 29486
(b)(17) removed; eff. 1-4-17 87426
764 Authority citation revised 10085, 60256
766 Authority citation revised 10085, 60256
766 Supplement No. 1 revised 40506
768 Authority citation revised 10086, 60256
770 Authority citation revised 10086, 60256
770.2 (l) and (m) revised 64677
(n) added 83123
772 Authority citation revised 10086, 60257
772.1 Amended ... 29486, 35606, 64677, 70333
774 Authority citation revised 10086, 29486, 60257
774.1 (e) added 64679
774 Supplement No. 1, Category 1 (ECCN 1B101) amended 19030
Supplement No. 1, Category 1 (ECCN 1C111), Category 7 (ECCN 7A116) and Category 9 (ECCN 9A012, 9A610) amended 19031
Supplement No. 1, Category 9 (ECCN 9B106) amended 19032
Supplement No. 1, Category 1 (ECCN 1C981) amended 29487
Supplement No. 1, Category 1 (ECCN 1C350, 1C351) amended 36462
Supplement No. 1, Category 2 (ECCN 2B352) amended 36463
Supplement No. 1, Category 1 (ECCN 1A607) amended 49528

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Supplement No. 1, Category 1 (ECCN 1B607, 1C607) amended 49529

Supplement No. 1, Category 1 (ECCN 1D607, 1E607) and Category 6 (ECCN 6B619) amended 49530

Supplement No. 1, Category 6 (ECCN 6D619, 6E619) amended 49531

Supplement No. 5 amended; interim 52328

Supplement No. 1, Category 0 (ECCN 0A617) and Category 1 (ECCN 1A001, 1A002, 1A004) amended 64679

Supplement No. 1, Category 1 (ECCN 1A613, 1C001, 1C002, 1C006, 1C008, 1C009, 1C608) amended 64680

Supplement No. 1, Category 1 (ECCN 1E001, 1E002, Annex) and Category 2 (ECCN 2B001, 2B006) amended 64681

Supplement No. 1, Category 3 (ECCN 3A001, 3A002, 3A101, 3A292, 3B001) amended 64682

Supplement No. 1, Category 3 (ECCN 3D001, 3E002) and Category 4 (Note 3, ECCN 4A001, 4A003) amended 64683

Supplement No. 1, Category 4 (ECCN 4D001, 4E001) amended 64684

Supplement No. 1, Category 5 (Part 1, ECCN 5A001, 5B001, 5D001, 5E001, Part 2) amended 64685

Supplement No. 1, Category 5 (Part 2, ECCN 5A002) amended 64686

Supplement No. 1, Category 5 (Part 2, ECCN 5A992, 5A003, 5A004, 5B002, 5D002) amended 64687

Supplement No. 1, Category 5 (Part 2, ECCN 5D992, 5E002, 5E992) and Category 6 (ECCN 6A001) amended 64688

Supplement No. 1, Category 6 (ECCN 6A002, 6A003, 6A004, 6A005, 6A007) amended 64689

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Supplement No. 1, Category 6 (ECCN 6A008, 6B004, 6B007, 6C005, 6E003), Category 7 (ECCN 7A003, 7A004, 7A008, 7B001, 7B002, 7E004) and Category 8 (ECCN 8A001, 8A002) amended 64690

Supplement No. 1, Category 9 (ECCN 9A001, 9A004, 9A012, 9B001, 9E003), Supplement No. 2 and Supplement No. 6 amended 64691

Supplement No. 1, Category 0 (ECCN 0A919, 0A987) amended 70333

Supplement No. 1, Category 0 (ECCN 0E987), Category 2 (ECCN 2A984) and Category 6 (ECCN 6A002, 6A003, 6A004, 6A005, 6A007) amended 70334

Supplement No. 1, Category 6 (ECCN 6A008, 6A107, 6A611, 6A990, 6A993, 6D002, 6D003) amended 70335

Supplement No. 1, Category 6 (ECCN 6D991, 6E001, 6E002, 6E990) and Category 7 (ECCN 7A001) amended 70336

Supplement No. 1, Category 7 (ECCN 7A002, 7A003, 7A005, 7A101, 7A102, 7A611, 7A994) amended 70337

Supplement No. 1, Category 7 (ECCN 7B611, 7D611, 7E611, 7E994) amended 70338

Supplement No. 1, Category 8 (ECCN 8A002) and Category 9 (ECCN 9A991) amended 70339

Supplement No. 1, Category 0 (ECCN 0A604, 0A614) and Category 3 (ECCN 3A611) amended 83123

Supplement No. 1, Category 8 (ECCN 8A992) and Category 9 (ECCN 9A115, 9A604, 9A610) amended 83124

Supplement No. 1, Category 9 (ECCN 9A619, 9A620, 9B610) amended 83125

Supplement No. 1, Category 9 (ECCN 9B619, 9C610, 9C619, 9E610, 9E619) amended 83126

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Supplement No. 1, Category 2 (ECCN 2A226, 2A292, 2A293, 2A992, 2A993, Technical Notes, 2B001, 2B201, 2B290, 2B350, 2B991, 2B999) amended 85145
Supplement No. 1, Category 2 (ECCN 2D290, 2D993, 2E001, 2E002, 2E290, 2E993) and Category 3 (ECCN 3A002, 3A292) amended 85146

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Supplement No. 1, Category 3 (ECCN 3A992, 3E001, 3E292) amended 85147
Supplement No. 1, Category 1 (ECCN 1C351) amended 90986
Supplement No. 1, Category 2 (ECCN 2B352) amended 90987
Supplement No. 1, Category 2 (ECCN 2B206) amended 94973
Supplement No. 1, Category 2 (ECCN 2B229) and Category 6 (ECCN 6A203) amended 94974