REFERENCES IN TEXT

The Energy Conservation and Existing Buildings Act of 1976, referred to in par. (3)(A), probably means the Energy Conservation and Existing Buildings Act of 1976, which is title IV of Pub. L. 94–385, Aug. 14, 1976, 90 Stat. 1150, as amended. Part A of the Energy Conservation and Existing Buildings Act of 1976, is classified generally to part A (§ 6861 et seq.) of subchapter III of chapter 81 of Title 42, The Public Health and Welfare. For complete classification of this Act to the Code, see Short Title note set out under section 6801 of Title 42 and Tables.

The Energy Policy and Conservation Act, referred to in par. (3)(B), (C), is Pub. L. 94–163, Dec. 22, 1975, 89 Stat. 871, as amended. Parts D and G of title III of the Energy Policy and Conservation Act are classified generally to parts B (§ 6321 et seq.) and E (§ 6371 et seq.), respectively, of subchapter III of chapter 77 of Title 42. For complete classification of this Act to the Code, see Short Title note set out under section 6201 of Title 42 and Tables.

The National Energy Extension Service Act, referred to in par. (3)(D), is title V of Pub. L. 95–39, June 3, 1977, 91 Stat. 191, as amended, which was classified principally to chapter 83 (§ 7001 et seq.) of Title 42 and was repealed by Pub. L. 102–486, title I, § 143(a), Oct. 24, 1992, 106 Stat. 2843. For complete classification of this Act to the Code, see Short Title note set out under section 7001 of Title 42 and Tables.

## CHAPTER 72—SEMICONDUCTOR RESEARCH

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SUBCHAPTER I—COOPERATIVE RESEARCH PROGRAM

### § 4601. Findings, purposes, and definitions

**(a) Findings**

The Congress finds that it is in the national economic and security interests of the United States for the Department of Defense to provide financial assistance to the industry consortium known as Sematech for research and development activities in the field of semiconductor manufacturing technology.

**(b) Purposes**

The purposes of this subchapter are—

(1) to encourage the semiconductor industry in the United States—

(A) to conduct research on advanced semiconductor manufacturing techniques; and

(B) to develop techniques to use manufacturing expertise for the manufacture of a variety of semiconductor products; and

(2) in order to achieve the purpose set out in paragraph (1), to provide a grant program for the financial support of semiconductor research activities conducted by Sematech.

**(c) Definitions**

In this subchapter:

(1) The terms ''Semiconductor Technology Council'' and ''Council'' mean the advisory council established by section 4603 of this title.

(2) The term ''Sematech'' means a consortium of firms in the United States semiconductor industry established for the purposes of (A) conducting research concerning advanced semiconductor manufacturing techniques, and (B) developing techniques to adapt manufacturing expertise to a variety of semiconductor products.

(Pub. L. 100–180, div. A, title II, § 271, Dec. 4, 1987, 101 Stat. 1068; Pub. L. 103–160, div. A, title II, § 263(c)(1), Nov. 30, 1993, 107 Stat. 1610.)

AMENDMENTS

1993—Subsec. (c)(1). Pub. L. 103–160 substituted ''Semiconductor Technology Council'' for ''Advisory Council on Federal Participation in Sematech''.

### § 4602. Grants to Sematech

**(a) Authority to make grants**

The Secretary of Defense shall make grants, in accordance with section 6304 of title 31, to Sematech in order to defray expenses incurred by Sematech in conducting research on and development of semiconductor manufacturing technology. The grants shall be made in accordance with a memorandum of understanding entered into under subsection (b) of this section.

**(b) Memorandum of understanding**

The Secretary of Defense shall enter into a memorandum of understanding with Sematech for the purposes of this subchapter. The memorandum of understanding shall require the following:

(1) That Sematech have—

(A) a charter agreed to by all representatives of the semiconductor industry that are participating members of Sematech; and

(B) an annual operating plan that is developed in consultation with the Secretary of Defense and the Semiconductor Technology Council.

(2) That the total amount of funds made available to Sematech by Federal, State, and local government agencies for any fiscal year for the support of research and development activities of Sematech under this section may not exceed 50 percent of the total cost of such activities.

(3) That Sematech, in conducting research and development activities pursuant to the memorandum of understanding, cooperate

with and draw on the expertise of the national laboratories of the Department of Energy and of colleges and universities in the United States in the field of semiconductor manufacturing technology.

(4) That an independent, commercial auditor be retained (A) to determine the extent to which the funds made available to Sematech by the United States for the research and development activities of Sematech have been expended in a manner that is consistent with the purposes of this subchapter, the charter of Sematech, and the annual operating plan of Sematech, and (B) to submit to the Secretary of Defense, Sematech, and the Comptroller General of the United States an annual report containing the findings and determinations of such auditor.

(5) That (A) the Secretary of Defense be permitted to use intellectual property, trade secrets, and technical data owned and developed by Sematech in the same manner as a participant in Sematech and to transfer such intellectual property, trade secrets, and technical data to Department of Defense contractors for use in connection with Department of Defense requirements, and (B) the Secretary not be permitted to transfer such property to any person for commercial use.

(6) That Sematech take all steps necessary to maximize the expeditious and timely transfer of technology developed and owned by Sematech to the participants in Sematech in accordance with the agreement between Sematech and those participants and for the purpose of improving manufacturing productivity of United States semiconductor firms.

**(c) Construction of memorandum of understanding**

The memorandum of understanding entered into under subsection (b) of this section shall not be considered to be a contract for the purpose of any law or regulation relating to the formation, content, and administration of contracts awarded by the Federal Government and subcontracts under such contracts, including section 2306a of title 10, section 2168 of the Appendix to title 50, and the Federal Acquisition Regulations, and such provisions of law and regulation shall not apply with respect to the memorandum of understanding.

**(d) Funding for FY88**

Of the amounts appropriated to the Defense Agencies for fiscal year 1988 for research, development, test, and evaluation, $100,000,000 may be obligated only to make grants under this section.

(Pub. L. 100–180, div. A, title II, § 272, Dec. 4, 1987, 101 Stat. 1068; Pub. L. 103–160, div. A, title II, § 263(c)(2), Nov. 30, 1993, 107 Stat. 1610.)

AMENDMENTS

1993—Subsec. (b)(1)(B). Pub. L. 103–160 substituted ''Semiconductor Technology Council'' for ''Advisory Council on Federal Participation in Sematech''.

## § 4603. Semiconductor Technology Council

**(a) Establishment**

There is established the Semiconductor Technology Council.

**(b) Purposes and functions**

(1) The purposes of the Council are the following:

(A) To link assessment by the semiconductor industry of future market and national security needs to opportunities for technology development through cooperative public and private investment.

(B) To seek ways to respond to the technology challenges for semiconductors by fostering precompetitive cooperation among industry, the Federal Government, and institutions of higher education.

(C) To make available judgments, assessments, insights, and recommendations that relate to the opportunities for new research and development efforts and the potential to better rationalize and align industry and government contributions to semiconductor research and development.

(2) The Council shall carry out the following functions:

(A) Advise Sematech and the Secretary of Defense on appropriate technology goals and appropriate level of effort for the research and development activities of Sematech.

(B) Review the emerging markets, technology developments, and core technology challenges for semiconductor research and development and semiconductor manufacturing and explore opportunities for improved coordination among industry, the Federal Government, and institutions of higher education regarding such developments and challenges.

(C) Assess the effect on the appropriate role of Sematech of public and private sector international agreements in semiconductor research and development.

(D) Exchange views regarding the competitiveness of United States semiconductor technology and new or emerging semiconductor technologies that could affect national economic and security interests.

(E) Exchange and update information and identify overlaps and gaps regarding the efforts of industry, the Federal Government, and institutions of higher education in semiconductor research and development.

(F) Assess technology progress relative to industry requirements and Federal Government requirements, responding as appropriate to the challenges in the national semiconductor technology roadmap developed by representatives of industry, the Federal Government, and institutions of higher education.

(G) Make recommendations regarding the semiconductor technology development efforts that should be supported by Federal agencies and industry.

(H) Appoint subgroups as appropriate in connection with the updating of the semiconductor technology roadmap.

(I) Publish and submit to Congress by March 31 of each year an annual report addressing the semiconductor technology challenges and developments for industry, government, and institutions of higher education and the relationship among the challenges and developments for each, including an evaluation of the role of Sematech.

**(c) Membership**

The Council shall be composed of 16 members as follows:

(1) The Under Secretary of Defense for Acquisition, Technology, and Logistics who shall be Cochairman of the Council.

(2) The Under Secretary of Energy responsible for science and technology matters.

(3) The Under Secretary of Commerce for Technology.

(4) The Director of the Office of Science and Technology Policy.

(5) The Assistant to the President for Economic Policy.

(6) The Director of the National Science Foundation.

(7) Ten members appointed by the President as follows:

(A) Four individuals who are eminent in the semiconductor device industry, one of whom shall be Cochairman of the Council.

(B) Two individuals who are eminent in the semiconductor equipment and materials industry.

(C) Three individuals who are eminent in the semiconductor user industry, including representatives from the telecommunications and computer industries.

(D) One individual who is eminent in an academic institution.

**(d) Terms of membership**

Each member of the Council appointed under subsection (c)(7) of this section shall be appointed for a term of three years, except that of the members first appointed, two shall be appointed for a term of one year, five shall be appointed for a term of two years, and three shall be appointed for a term of three years, as designated by the President at the time of appointment. A member of the Council may serve after the expiration of the member's term until a successor has taken office.

**(e) Vacancies**

A vacancy in the Council shall not affect its powers but, in the case of a member appointed under subsection (c)(7) of this section, shall be filled in the same manner as the original appointment was made. Any member appointed to fill a vacancy for an unexpired term shall be appointed for the remainder of such term.

**(f) Quorum**

Eleven members of the Council shall constitute a quorum.

**(g) Meetings**

The Council shall meet at the call of a Cochairman.

**(h) Compensation**

(1) Each member of the Council shall serve without compensation.

(2) While away from their homes or regular places of business in the performance of duties for the Council, members of the Council shall be allowed travel expenses, including per diem in lieu of subsistence, at rates authorized for employees of agencies under sections 5702 and 5703 of title 5.

**(i) Federal Advisory Committee Act**

Section 14 of the Federal Advisory Committee Act shall not apply to the Council.

**(j) Support for Council**

The Council shall use Federal funds made available to Sematech as needed for general and administrative support in accomplishing the Council's purposes.

(Pub. L. 100–180, div. A, title II, § 273, Dec. 4, 1987, 101 Stat. 1070; Pub. L. 102–245, title I, § 103(e), Feb. 14, 1992, 106 Stat. 9; Pub. L. 103–160, div. A, title II, § 263(b), (c)(3)–(e), Nov. 30, 1993, 107 Stat. 1608, 1610; Pub. L. 103–337, div. A, title II, § 251, Oct. 5, 1994, 108 Stat. 2702; Pub. L. 106–65, div. A, title IX, § 911(a)(1), Oct. 5, 1999, 113 Stat. 717.)

REFERENCES IN TEXT

Section 14 of the Federal Advisory Committee Act, referred to in subsec. (i), is section 14 of Pub. L. 92–463, which is set out in the Appendix to Title 5, Government Organization and Employees.

AMENDMENTS

1999—Subsec. (c)(1). Pub. L. 106–65 substituted ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' for ''Under Secretary of Defense for Acquisition and Technology''.

1994—Subsec. (b)(2)(I). Pub. L. 103–337 inserted ''and submit to Congress by March 31 of each year'' after ''Publish''.

1993—Pub. L. 103–160, § 263(b), substituted ''Semiconductor Technology Council'' for ''Advisory Council'' in section catchline.

Subsec. (a). Pub. L. 103–160, § 263(b), added subsec. (a) and struck out former subsec. (a) which read as follows: ''There is established the Advisory Council on Federal Participation in Sematech.''

Subsec. (b). Pub. L. 103–160, § 263(b), added subsec. (b) and struck out former subsec. (b) which related to the functions of the Advisory Council of Federal Participation in Sematech.

Subsec. (c). Pub. L. 103–160, § 263(b), added subsec. (c) and struck out former subsec. (c) which related to the membership of the Advisory Council on Federal Participation in Sematech.

Subsec. (d). Pub. L. 103–160, § 263(c)(3)(A), substituted ''subsection (c)(7)'' for ''subsection (c)(6)'' and ''five shall be appointed for a term of two years'' for ''two shall be appointed for a term of two years''.

Subsec. (e). Pub. L. 103–160, § 263(c)(3)(B), substituted ''subsection (c)(7)'' for ''subsection (c)(6)''.

Subsec. (f). Pub. L. 103–160, § 263(c)(3)(C), substituted ''Eleven members'' for ''Seven members''.

Subsec. (g). Pub. L. 103–160, § 263(d), substituted ''a Cochairman'' for ''the Chairman or a majority of its members''.

Subsec. (j). Pub. L. 103–160, § 263(e), added subsec. (j).

1992—Subsec. (c)(4). Pub. L. 102–245 substituted ''Technology'' for ''Economic Affairs''.

TERMINATION OF ADVISORY COUNCIL ON FEDERAL PARTICIPATION IN SEMATECH

Section 263(a) of Pub. L. 103–160 provided that: ''The advisory council known as the Advisory Council on Federal Participation in Sematech, established by section 273 of the National Defense Authorization Act for Fiscal Years 1988 and 1989 (15 U.S.C. 4603), is hereby terminated.''

FIRST MEETING OF SEMICONDUCTOR TECHNOLOGY COUNCIL

Section 263(f) of Pub. L. 103–160 provided that: ''The first meeting of the Semiconductor Technology Council shall be held not later than 45 days after the date of the enactment of this Act [Nov. 30, 1993].''

REFERENCES TO TERMINATED COUNCIL

Section 263(g) of Pub. L. 103–160 provided that: ''A reference in any provision of law to the Advisory Council

on Federal Participation in Sematech shall be deemed to refer to the Semiconductor Technology Council established by section 273 of the National Defense Authorization Act for Fiscal Years 1988 and 1989 [15 U.S.C. 4603], as amended by subsection (b).''

### § 4603a. Study and report by Semiconductor Technology Council

#### (a) Study and report

Not later than February 1, 1989, and annually thereafter for each fiscal year in which appropriated funds are expended for Sematech the Semiconductor Technology Council established under section 4603(a) of this title shall conduct a study and submit a report to the Governmental Affairs Committee and the Armed Services Committee of the Senate and to appropriate committees of the House of Representatives concerning Federal participation in Sematech. The study and report shall be conducted under the direction of the Under Secretary of Commerce for Technology.

#### (b) Council recommendations and report

The Council shall include in the report submitted under subsection (a) of this section the following:

(1) identification of potential sources of Federal funding from department and agency budgets for Sematech and recommendations concerning methods and terms of Federal financial participation in Sematech, including grants, loans, loan guarantees, and contributions in kind. The feasibility of methods of Federal recoupment shall also be considered;

(2) definition and assessment of continued Federal participation in Sematech including, but not limited to, issues of technology research and development, civilian and defense industrial base objectives and initiatives, and commercialization. The report shall include a summary of the most recent plans, milestones, and cost estimates for Sematech, including any changes and alterations, and shall comment on Sematech's accomplishments and shortfalls in the preceding fiscal year;

(3) coordination of inter-agency participation, including all matters pertaining to Federal funding and decisionmaking, and other issues regarding Federal participation in Sematech; and

(4) any other issues and questions the Council deems appropriate shall be considered.

(Pub. L. 100–418, title V, § 5422, Aug. 23, 1988, 102 Stat. 1468; Pub. L. 102–245, title I, § 103(e), Feb. 14, 1992, 106 Stat. 9; Pub. L. 103–160, div. A, title II, § 263(g), Nov. 30, 1993, 107 Stat. 1610.)

CODIFICATION

Section was enacted as part of the Omnibus Trade and Competitiveness Act of 1988, and not as part of part F of title II of division A of Pub. L. 100–180 which comprises this subchapter.

AMENDMENTS

1993—Pub. L. 103–160 substituted ''Semiconductor Technology Council'' for ''Advisory Council on Federal Participation in Sematech'' in section catchline and subsec. (a).

1992—Subsec. (a). Pub. L. 102–245 substituted ''Technology'' for ''Economic Affairs''.

CHANGE OF NAME

Committee on Governmental Affairs of Senate changed to Committee on Homeland Security and Governmental Affairs of Senate, effective Jan. 4, 2005, by Senate Resolution No. 445, One Hundred Eighth Congress, Oct. 9, 2004.

### § 4604. Repealed. Pub. L. 104–66, title I, § 1031(a)(2), Dec. 21, 1995, 109 Stat. 714

Section, Pub. L. 100–180, div. A, title II, § 274, Dec. 4, 1987, 101 Stat. 1071, directed Comptroller General to review annual reports submitted by auditor on Sematech funding and transmit comments to Congress.

### § 4605. Export of semiconductor manufacturing

Any export of materials, equipment, and technology developed by Sematech in whole or in part with financial assistance provided under section 4602(a) of this title shall be subject to the Export Administration Act of 1979 (50 U.S.C. App. 2401 et seq.) and shall not be subject to the Arms Export Control Act [22 U.S.C. 2751 et seq.].

(Pub. L. 100–180, div. A, title II, § 275, Dec. 4, 1987, 101 Stat. 1071.)

REFERENCES IN TEXT

The Export Administration Act of 1979, referred to in text, is Pub. L. 96–72, Sept. 29, 1979, 93 Stat. 503, as amended, which is classified principally to section 2401 et seq. of Title 50, Appendix, War and National Defense. For complete classification of this Act to the Code, see Short Title note set out under section 2401 of Title 50, Appendix, and Tables.

The Arms Export Control Act, referred to in text, is Pub. L. 90–629, Oct. 22, 1968, 82 Stat. 1320, as amended, which is classified principally to chapter 39 (§ 2751 et seq.) of Title 22, Foreign Relations and Intercourse. For complete classification of this Act to the Code, see Short Title note set out under section 2751 of Title 22 and Tables.

### § 4606. Protection of information

#### (a) Freedom of Information Act

Section 552 of title 5 shall not apply to information obtained by the Federal Government on a confidential basis under section 4602(b)(5) of this title.

#### (b) Intellectual property

Notwithstanding any other provision of law, intellectual property, trade secrets, and technical data owned and developed by Sematech or any of the participants in Sematech may not be disclosed by any officer or employee of the Department of Defense except as provided in the provision included in the memorandum of understanding pursuant to section 4602(b)(5) of this title.

(Pub. L. 100–180, div. A, title II, § 276, Dec. 4, 1987, 101 Stat. 1071.)

## SUBCHAPTER II—DEPARTMENT OF ENERGY SEMICONDUCTOR TECHNOLOGY RESEARCH EXCELLENCE INITIATIVE

### § 4621. Findings

Congress makes the following findings:

(1) Semiconductors and related microelectronic devices are key components in computers, telecommunications equipment, advanced defense systems, and other equipment.

(2) Aggregate sales of such equipment, in excess of $230,000,000,000 annually, comprise a significant portion of the gross national product of the United States.

(3) The leadership position of the United States in advanced technology is threatened by (A) competition from foreign businesses which is promoted and facilitated by the increasingly active involvement of foreign governments, and (B) other changes in the nature of foreign competition.

(4) The principal cause of the relative shift in strength of the United States and its semiconductor competitors is the establishment of a long-term goal by a major foreign competitor to achieve world superiority in semiconductor research and manufacturing technology and the pursuit of such goal by that competitor by effectively marshalling all of the government, industry, and academic resources needed to achieve that goal.

(5) Although the United States semiconductor industry leads all other principal United States industries in terms of its reinvestment in research and development, that has been insufficient by worldwide standards.

(6) Electronic equipment is essential to protect the national security of the United States, as is evidenced by the allocation of approximately 35 percent of the total research, development, and procurement budgets of the Department of Defense to electronics research.

(7) The Armed Forces of the United States will eventually depend extensively on foreign semiconductor technology unless significant steps are taken, and taken at an early date, to retain United States leadership in semiconductor technology research.

(8) It is in the interests of the national security and national economy of the United States for the United States to regain its traditional world leadership in the field of semiconductors.

(9) The most effective means of regaining that leadership is through a joint research effort of the Federal Government and private industry of the United States to improve semiconductor manufacturing technology and to develop practical uses for such technology.

(10) In order to meet the national defense needs of the United States and to insure the continued vitality of a commercial manufacturing base in the United States, it is essential that priority be given to the development, demonstration, and advancement of the semiconductor technology base in the United States.

(11) The national laboratories of the Department of Energy are a major national research resource, and the extensive involvement of such laboratories in the semiconductor research initiatives of the Federal Government and private industry would be an effective use of such laboratories and would help insure the success of such initiatives.

(Pub. L. 100–180, div. C, title I, § 3141, Dec. 4, 1987, 101 Stat. 1241.)

### § 4622. Establishment of semiconductor manufacturing technology research initiative

The Secretary of Energy shall initiate and carry out a program (hereinafter in this subchapter referred to as the ''Initiative'') of research on semiconductor manufacturing technology and on the practical applications of such technology. The Secretary may carry out the Initiative in a way that complements the activities of a consortium of United States semiconductor manufacturers, materials manufacturers, and equipment manufacturers, established for the purpose of conducting research concerning advanced semiconductor manufacturing techniques and developing techniques to adopt manufacturing expertise to a variety of semiconductor products.

(Pub. L. 100–180, div. C, title I, § 3142, Dec. 4, 1987, 101 Stat. 1242.)

REFERENCES IN TEXT

This subchapter, referred to in text, was in the original ''this subtitle'' and was translated as reading ''this part'' meaning part D of title I of division C of Pub. L. 100–180 which enacted this subchapter, to reflect the probable intent of Congress because title I did not contain subtitles.

### § 4623. Participation of national laboratories of Department of Energy

**(a) Mission of national laboratories**

Each national laboratory of the Department of Energy may participate in research and development projects under the Initiative in conjunction with the Department of Defense or with any consortium, college, or university carrying out any project for or in cooperation with any consortium referred to in section 4622 of this title, to the extent that such participation is consistent with the missions of the national laboratory.

**(b) Agreements**

The Secretary of Energy may enter into such agreements with the Secretary of Defense, with any consortium referred to in section 4622 of this title, and with any college or university as may be necessary to provide for the active participation of the national laboratories of the Department of Energy in the Initiative.

**(c) Research and development**

One or more national laboratories of the Department of Energy shall participate in the Initiative by conducting research and development activities relating to research on the development of semiconductor manufacturing technologies. Such activities may include research and development relating to materials fabrication, materials characterization, design and modeling of devices, and new processing equipment.

(Pub. L. 100–180, div. C, title I, § 3143, Dec. 4, 1987, 101 Stat. 1243.)

### § 4624. Personnel exchanges

The Secretary of Energy may authorize temporary exchanges of personnel between the national laboratories of the Department of Energy and any domestic firm or any consortium referred to in section 4622 of this title that is participating in the Initiative. The exchange of personnel shall be subject to such restrictions, limitations, terms, and conditions that the Sec-

retary of Energy considers necessary in the interest of national security.

(Pub. L. 100–180, div. C, title I, § 3144, Dec. 4, 1987, 101 Stat. 1243.)

### § 4625. Other Department of Energy resources

#### (a) Availability of resources

Subject to subsection (b) of this section, the Secretary of Energy may make available to the Department of Defense, to any other department or agency of the Federal Government, and to any consortium that has entered into an agreement in furtherance of the Initiative any facilities, personnel, equipment, services, and other resources of the Department of Energy for the purpose of conducting research and development projects under the Initiative consistent with section 4623(a) of this title.

#### (b) Reimbursement

The Secretary may make facilities available under this section only to the extent that the cost of the use of such facilities is reimbursed by the user.

(Pub. L. 100–180, div. C, title I, § 3145, Dec. 4, 1987, 101 Stat. 1243.)

### § 4626. Budgeting for semiconductor manufacturing technology research

#### (a) Budget submission

To the extent the Secretary considers appropriate and necessary, the Secretary of Energy, in preparing the research and development budget of the Department of Energy to be included in the annual budget submitted to the Congress by the President under section 1105(a) of title 31, shall provide for programs, projects, and activities that encourage the development of new technology in the field of semiconductors.

#### (b) Budget categories

The programs, projects, and activities described in subsection (a) of this section shall be included in the budget for general science and research activities of the Department of Energy, except that any programs, projects, and activities that directly support and directly benefit the defense activities of the Department shall be included in the budget for atomic energy defense activities of the Department of Energy.

(Pub. L. 100–180, div. C, title I, § 3146, Dec. 4, 1987, 101 Stat. 1243.)

### § 4627. Cost-sharing agreements

#### (a) Permitted provisions

The director of each national laboratory of the Department of Energy that is participating in the Initiative or the contractor operating any such national laboratory, in carrying out programs under a contract with the Department of Energy, may include in any research and development agreement entered into with a domestic firm in connection with such Initiative a cooperative provision for the domestic firm to pay a portion of the cost of the research and development activities.

#### (b) Limitations

(1) Not more than an amount equal to 1 percent of any national laboratory's annual budget shall be received from nonappropriated funds derived from contracts entered into under the Initiative in any fiscal year, except to the extent approved in advance by the Secretary of Energy.

(2) No Department of Energy national laboratory may receive more than $10,000,000 of nonappropriated funds under any cooperative research and development agreement entered into under this subsection in connection with the Initiative, except to the extent approved in advance by the Secretary of Energy.

(Pub. L. 100–180, div. C, title I, § 3147, Dec. 4, 1987, 101 Stat. 1244.)

### § 4628. Department of Energy oversight of cooperative agreements relating to Initiative

#### (a) Provisions relating to disapproval and modification of agreements

If the Secretary of Energy desires an opportunity to disapprove or require the modification of any agreement under section 4627 of this title, the agreement shall provide a 90-day period within which such action may be taken, beginning on the date the agreement is submitted to the Secretary.

#### (b) Record of agreements

Each national laboratory shall maintain a record of all agreements entered into under this section.

(Pub. L. 100–180, div. C, title I, § 3148, Dec. 4, 1987, 101 Stat. 1244.)

### § 4629. Avoidance of duplication

In carrying out the Initiative, the Secretary of Energy shall ensure that unnecessary duplicative research is not performed at the research facilities (including the national laboratories of the Department of Energy) that are participating in the Initiative.

(Pub. L. 100–180, div. C, title I, § 3149, Dec. 4, 1987, 101 Stat. 1244.)

### § 4630. Authorization of appropriations

There is authorized to be appropriated to the Department of Energy for fiscal year 1988 the sum of $25,000,000 for general science and research activities of the Department of Energy under the Initiative.

(Pub. L. 100–180, div. C, title I, § 3150, Dec. 4, 1987, 101 Stat. 1244.)

### § 4631. Technology transfer

#### (a) In general

The Secretary of Energy shall adopt procedures to provide for timely and efficient transfer of semiconductor technology developed under the Initiative pursuant to applicable laws, Executive orders, and regulations.

#### (b) Plan for commercialization enhancement

(1) Not later than one year after the date on which funds are first appropriated to conduct the Initiative, the Secretary of Energy shall transmit to the committees of Congress named in paragraph (2) a plan for the transfer of semiconductor technology and information generated by the Initiative.

(2) The committees of Congress referred to in paragraph (1) are the Committees on Armed Services of the Senate and House of Representatives, the Committee on Energy and Natural Resources of the Senate, and the Committee on Science, Space, and Technology of the House of Representatives.

(Pub. L. 100–180, div. C, title I, § 3151, Dec. 4, 1987, 101 Stat. 1244; Pub. L. 103–437, § 5(b)(6), Nov. 2, 1994, 108 Stat. 4582.)

AMENDMENTS

1994—Subsec. (b)(2). Pub. L. 103–437 substituted ''Committee on Science, Space, and Technology'' for ''Committee on Science and Technology''.

CHANGE OF NAME

Committee on Science, Space, and Technology of House of Representatives treated as referring to Committee on Science of House of Representatives by section 1(a) of Pub. L. 104–14, set out as a note preceding section 21 of Title 2, The Congress. Committee on Science of House of Representatives changed to Committee on Science and Technology of House of Representatives by House Resolution No. 6, One Hundred Tenth Congress, Jan. 5, 2007.

## § 4632. Semiconductor research and development

### (a) Short title

This section may be cited as the ''National Advisory Committee on Semiconductor Research and Development Act of 1988''.

### (b) Findings and purposes

(1) The Congress finds and declares that—

(A) semiconductor technology is playing an ever-increasing role in United States industrial and commercial products and processes, making secure domestic sources of state-of-the-art semiconductors highly desirable;

(B) modern weapons systems are highly dependent on leading edge semiconductor devices, and it is counter to the national security interest to be heavily dependent upon foreign sources for this technology;

(C) governmental responsibilities related to the semiconductor industry are divided among many Federal departments and agencies; and

(D) joint industry-government consideration of semiconductor industry problems is needed at this time.

(2) The purposes of this section are—

(A) to establish the National Advisory Committee on Semiconductors; and

(B) to assign to such Committee the responsibility for devising and promulgating a national semiconductor strategy, including research and development, the implementation of which will assure the continued leadership of the United States in semiconductor technology.

### (c) Creation of Committee

There is hereby created in the executive branch of the Government an independent advisory body to be known as the National Advisory Committee on Semiconductors (hereafter in this section referred to as the ''Committee'').

### (d) Functions

(1) The Committee shall—

(A) collect and analyze information on the needs and capabilities of industry, the Federal Government, and the scientific and research communities related to semiconductor technology;

(B) identify the components of a successful national semiconductor strategy in accordance with subsection (b)(2)(B) of this section;

(C) analyze options, establish priorities, and recommend roles for participants in the national strategy;

(D) assess the roles for government and national laboratories and other laboratories supported largely for government purposes in contributing to the semiconductor technology base of the Nation, as well as to access the effective use of the resources of United States private industry, United States universities, and private-public research and development efforts; and

(E) provide results and recommendations to agencies of the Federal Government involved in legislative, policymaking, administrative, management, planning, and technology activities that affect or are part of a national semiconductor strategy, and to the industry and other nongovernmental groups or organizations affected by or contributing to that strategy.

(2) In fulfilling this responsibility, the Committee shall—

(A) monitor the competitiveness of the United States semiconductor technology base;

(B) determine technical areas where United States semiconductor technology is deficient relative to international competition;

(C) identify new or emerging semiconductor technologies that will impact the national defense or United States competitiveness or both;

(D) develop research and development strategies, tactics, and plans whose execution will assure United States semiconductor competitiveness; and

(E) recommend appropriate actions that support the national semiconductor strategy.

### (e) Membership and procedures

(1)(A) The Committee shall be composed of 13 members, 7 of whom shall constitute a quorum.

(B) The Secretary of Defense, the Secretary of Commerce, the Secretary of Energy, the Director of the Office of Science and Technology Policy, and the Director of the National Science Foundation, or their designees, shall serve as members of the Committee.

(C) The President, acting through the Director of the Office of Science and Technology Policy, shall appoint, as additional members of the Committee, 4 members from outside the Federal Government who are eminent in the semiconductor industry, and 4 members from outside the Federal Government who are eminent in the fields of technology, defense, and economic development.

(D) One of the members appointed under subparagraph (C), as designated by the President at the time of appointment, shall be chairman of the Committee.

(2) Funding and administrative support for the Committee shall be provided to the Office of Science and Technology Policy through an arrangement with an appropriate agency or orga-

nization designated by the Committee, in accordance with a memorandum of understanding entered into between them.

(3) Members of the Committee, other than full-time employees of the Federal Government, while attending meetings of the Committee or otherwise performing duties at the request of the Chairman while away from their homes or regular places of business, shall be allowed travel expenses in accordance with subchapter I of chapter 57 of title 5.

(4) The Chairman shall call the first meeting of the Committee not later than 90 days after August 23, 1988.

(5) At the close of each fiscal year the Committee shall submit to the President and the Congress a report on its activities conducted during such year and its planned activities for the coming year, including specific findings and recommendations with respect to the national semiconductor strategy devised and promulgated under subsection (b)(2)(B) of this section. The first report shall include an analysis of those technical areas, including manufacturing, which are of importance to the United States semiconductor industry, and shall make specific recommendations regarding the appropriate Federal role in correcting any deficiencies identified by the analysis. Each report shall include an estimate of the length of time the Committee must continue before the achievement of its purposes and the issuance of its final report.

**(f) Authorization of appropriations**

There are authorized to be appropriated to carry out the purposes of this section such sums as may be necessary for the fiscal years 1988, 1989, 1990, 1991, 1992, and 1993.

(Pub. L. 100–418, title V, § 5142, Aug. 23, 1988, 102 Stat. 1444; Pub. L. 102–245, title I, § 105(f), Feb. 14, 1992, 106 Stat. 12.)

CODIFICATION

Section was enacted as part of the Technology Competitiveness Act and as part of the Omnibus Trade and Competitiveness Act of 1988, and not as part of part D of title I of division C of Pub. L. 100–180 which comprises this subchapter.

AMENDMENTS

1992—Subsec. (f). Pub. L. 102–245 substituted ''1990, 1991, 1992, and 1993'' for ''and 1990''.

TERMINATION OF REPORTING REQUIREMENTS

For termination, effective May 15, 2000, of provisions in subsec. (e)(5) of this section relating to submitting annual report to Congress, see section 3003 of Pub. L. 104–66, as amended, set out as a note under section 1113 of Title 31, Money and Finance, and page 178 of House Document No. 103–7.

TERMINATION OF ADVISORY COMMITTEES

Advisory committees established after Jan. 5, 1973, to terminate not later than the expiration of the 2-year period beginning on the date of their establishment, unless, in the case of a committee established by the President or an officer of the Federal Government, such committee is renewed by appropriate action prior to the expiration of such 2-year period, or in the case of a committee established by the Congress, its duration is otherwise provided by law. See section 14 of Pub. L. 92–463, Oct. 6, 1972, 86 Stat. 776, set out in the Appendix to Title 5, Government Organization and Employees.

## CHAPTER 73—EXPORT ENHANCEMENT

SUBCHAPTER I—FAIR TRADE IN AUTO PARTS

Sec.
4701 to 4704. Omitted.

SUBCHAPTER I–A—FAIR TRADE IN AUTOMOTIVE PARTS

4705 to 4705c. Omitted.

SUBCHAPTER II—GENERAL PROVISIONS

4711. Repealed.
4712. Barter and countertrade.

SUBCHAPTER III—EXPORT PROMOTION

4721. United States and Foreign Commercial Service.
4722. Transferred.
4723. Market Development Cooperator Program.
4723a. United States Commercial Centers.
4724. Trade shows.
4725. United States and Foreign Commercial Service Pacific Rim initiative.
4726. Indian tribes export promotion.
4727. Trade Promotion Coordinating Committee.
4727a. Implementation of primary objectives of TPCC.
4728. Environmental trade promotion.
4729. Report on export policy.

## SUBCHAPTER I—FAIR TRADE IN AUTO PARTS

### §§ 4701 to 4704. Omitted

CODIFICATION

Sections 4701 to 4704 were omitted pursuant to section 4704 which provided that the authorities under this subchapter expired on Dec. 31, 1998.

Section 4701, Pub. L. 100–418, title II, § 2122, Aug. 23, 1988, 102 Stat. 1325, defined ''Japanese markets''.

Section 4702, Pub. L. 100–418, title II, § 2123, Aug. 23, 1988, 102 Stat. 1326, established initiative on auto parts sales to Japan.

Section 4703, Pub. L. 100–418, title II, § 2124, Aug. 23, 1988, 102 Stat. 1326, established Special Advisory Committee on auto parts sales in Japan.

Section 4704, Pub. L. 100–418, title II, § 2125, Aug. 23, 1988, 102 Stat. 1327; Pub. L. 103–236, title V, § 510(a), Apr. 30, 1994, 108 Stat. 465, provided that the authorities under this subchapter expire on Dec. 31, 1998.

SHORT TITLE OF 1998 AMENDMENT

Pub. L. 105–261, div. C, title XXXVIII, § 3801, Oct. 17, 1998, 112 Stat. 2275, provided that title XXXVIII of div. C of Pub. L. 105–261, enacting former subchapter I–A of this chapter, could be cited as the ''Fair Trade in Automotive Parts Act of 1998''.

SHORT TITLE OF 1994 AMENDMENT

Pub. L. 103–392, title IV, § 401, Oct. 22, 1994, 108 Stat. 4099, provided that: ''This title [amending section 4728 of this title] may be cited as the 'Environmental Export Promotion Act of 1994'.''

SHORT TITLE

Section 2001 of title II of Pub. L. 100–418 provided that: ''This title [enacting this chapter, section 3310a of Title 22, Foreign Relations and Intercourse, and section 2410a of Title 50, Appendix, War and National Defense, amending sections 4003, 4051, and 4052 of this title, sections 5314 and 5315 of Title 5, Government Organization and Employees, sections 1431 and 1708 of Title 7, Agriculture, sections 635q to 635s of Title 12, Banks and Banking, section 1864 of Title 19, Customs Duties, sections 2151f, 2191a, 2195, and 2421 of Title 22, section 1702 of Title 50, and sections 5, 6, 39, 2403 to 2406, 2409 to 2414, 2417, and 2419 of Title 50, Appendix, and enacting provi-