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CHAPTER 79—SCIENCE AND TECHNOLOGY POLICY, ORGANIZATION AND PRIORITIES

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SUBCHAPTER I—NATIONAL SCIENCE, ENGINEERING, AND TECHNOLOGY POLICY AND PRIORITIES

SUBCHAPTER REFERRED TO IN OTHER SECTIONS

This subchapter is referred to in section 6632 of this title.

§ 6601. Congressional findings; priority goals

(a) The Congress, recognizing the profound impact of science and technology on society, and the interrelations of scientific, technological, economic, social, political, and institutional factors, hereby finds and declares that—

(1) the general welfare, the security, the economic health and stability of the Nation, the conservation and efficient utilization of its natural and human resources, and the effective functioning of government and society require vigorous, perceptive support and employment of science and technology in achieving national objectives;

(2) the many large and complex scientific and technological factors which increasingly influence the course of national and international events require appropriate provision, involving long-range, inclusive planning as well as more immediate program development,

to incorporate scientific and technological knowledge in the national decisionmaking process;

(3) the scientific and technological capabilities of the United States, when properly fostered, applied, and directed, can effectively assist in improving the quality of life, in anticipating and resolving critical and emerging international, national, and local problems, in strengthening the Nation's international economic position, and in furthering its foreign policy objectives;

(4) Federal funding for science and technology represents an investment in the future which is indispensable to sustained national progress and human betterment, and there should be a continuing national investment in science, engineering, and technology which is commensurate with national needs and opportunities and the prevalent economic situation;

(5) the manpower pool of scientists, engineers, and technicians, constitutes an invaluable national resource which should be utilized to the fullest extent possible; and

(6) the Nation's capabilities for technology assessment and for technological planning and policy formulation must be strengthened at both Federal and State levels.

(b) As a consequence, the Congress finds and declares that science and technology should contribute to the following priority goals without being limited thereto:

(1) fostering leadership in the quest for international peace and progress toward human freedom, dignity, and well-being by enlarging the contributions of American scientists and engineers to the knowledge of man and his universe, by making discoveries of basic science widely available at home and abroad, and by utilizing technology in support of United States national and foreign policy goals;

(2) increasing the efficient use of essential materials and products, and generally contributing to economic opportunity, stability, and appropriate growth;

(3) assuring an adequate supply of food, materials, and energy for the Nation's needs;

(4) contributing to the national security;

(5) improving the quality of health care available to all residents of the United States;

(6) preserving, fostering, and restoring a healthful and esthetic natural environment;

(7) providing for the protection of the oceans and coastal zones, and the polar regions, and the efficient utilization of their resources;

(8) strengthening the economy and promoting full employment through useful scientific and technological innovations;

(9) increasing the quality of educational opportunities available to all residents of the United States;

(10) promoting the conservation and efficient utilization of the Nation's natural and human resources;

(11) improving the Nation's housing, transportation, and communication systems, and assuring the provision of effective public services throughout urban, suburban, and rural areas;

(12) eliminating air and water pollution, and unnecessary, unhealthful, or ineffective drugs and food additives; and

(13) advancing the exploration and peaceful uses of outer space.

(Pub. L. 94-282, title I, § 101, May 11, 1976, 90 Stat. 459.)

SHORT TITLE

Section 1 of Pub. L. 94-282 provided that: "This Act [enacting this chapter, amending section 1863 of this title, repealing sections 1, 2, 3, and 4 of Reorganization Plan Numbered 2 of 1962 (76 Stat. 1253), set out as a note under section 1861 of this title, and section 2 of Reorganization Plan Numbered 1 of 1973 (87 Stat. 1089), set out as a note under section 5195 of this title, and enacting provisions set out as notes under this section and sections 1862 and 6611 of this title] may be cited as the 'National Science and Technology Policy, Organization, and Priorities Act of 1976'."

Section 201 of title II of Pub. L. 94-282 provided that: "This title [enacting subchapter II of this chapter] may be cited as the 'Presidential Science and Technology Advisory Organization Act of 1976'."

EX. ORD. NO. 12039. TRANSFER OF CERTAIN SCIENCE AND TECHNOLOGY POLICY FUNCTIONS

Ex. Ord. No. 12039, Feb. 24, 1978, 43 F.R. 8095, as amended by Ex. Ord. No. 12399, Dec. 31, 1982, 48 F.R. 379, provided:

By virtue of the authority vested in me by the Constitution and laws of the United States of America, including Section 7 of Reorganization Plan No. 1 of 1977 (42 FR 56101 (October 21, 1977)) [set out in Appendix of Title 5, Government Organization and Employees], Section 301 of Title 3 of the United States Code, and Section 202 of the Budget and Accounting Procedures Act of 1950 (31 U.S.C. 581c) [31 U.S.C. 1531], and as President of the United States of America, in order to provide for the transfer of certain science and technology functions, it is hereby ordered as follows:

SECTION 1. (a) The transfer, provided by Section 5A of Reorganization Plan No. 1 of 1977 (42 FR 56101) [set out in Appendix of Title 5, Government Organization and Employees], of certain functions under the National Science and Technology Policy, Organization, and Priorities Act of 1976, hereinafter referred to as the Act (90 Stat. 459, 42 U.S.C. 6601 et seq.), from the Office of Science and Technology Policy and its Director to the Director of the National Science Foundation is hereby effective.

(b) The abolition of the Intergovernmental Science, Engineering, and Technology Advisory Panel, the President's Committee on Science and Technology, and the Federal Coordinating Council for Science, Engineering and Technology (established in accordance with Titles II, III, and IV of the Act) [sections 6611 et seq., 6631 et seq., and 6651 of this title] and the transfer of their functions (Sections 205(b)(1), 303(a) and (b)(1), and 401 of the Act, 42 U.S.C. 6614(b)(1), 6633 (a) and (b)(1), and 6651(e)) to the President of the United States of America, provided by Section 5A of Reorganization Plan No. 1 of 1977 [set out in Appendix of Title 5, Government Organization and Employees], are hereby effective.

SEC. 2. (a) The intergovernmental science, engineering, and technology functions under Section 205(b)(1) of the Act (42 U.S.C. 6614(b)(1)), which were transferred to the President (see Section 1(b) of this Order), are delegated to the Director of the Office of Science and Technology Policy; *Except that*, the responsibility for fostering any policies to facilitate the transfer and utilization of research and development results is delegated to the Director of the Office of Management and Budget.

(b) The functions vested by subsection (a) of this Section in the Director of the Office of Management and Budget shall be performed in accord with the Director's

responsibilities under the Intergovernmental Cooperation Act of 1968 (82 Stat. 1098, 42 U.S.C. 4201 et seq.) [31 U.S.C. 6501 et seq.]. The Director of the Office of Science and Technology Policy shall advise the Director of the Office of Management and Budget with respect to the needs of State, regional, and local governments which may be assisted by the utilization of science, engineering, and technology research and development results.

(c) The functions vested by subsection (a) of this Section in the Director of the Office of Science and Technology Policy shall be performed in coordination with the Director of the Office of Management and Budget and with others as designated by the President.

(d) [Revoked by Ex. Ord. No. 12399, Dec. 31, 1982, 48 F.R. 379.]

SEC. 3. The Federal science, engineering, and technology functions under Section 303 (a) and (b)(1) of the Act (42 U.S.C. 6633 (a) and (b)(1)), which were transferred to the President (see Section 1(b) of this Order), are delegated to the Director of the Office of Science and Technology Policy: *Except that*, those functions concerned with reorganization, including Federal-State liaison, are delegated to the Director of the Office of Management and Budget, who shall be provided advice and assistance thereon by the Director of the Office of Science and Technology Policy.

SEC. 4. The science, engineering, and technology and related activities functions under Section 401(e) of the Act (42 U.S.C. 6651(e)), which were transferred to the President (see Section 1(b) of this Order), are delegated to the Director of the Office of Science and Technology Policy.

SEC. 5. There is hereby established the Federal Coordinating Council for Science, Engineering, and Technology. The Council shall be composed of the Director of the Office of Science and Technology Policy, who shall be Chairman, and representatives of such other Executive agencies designated by the Chairman. The head of an agency so designated shall designate an appropriate individual to serve on the Council. The Council shall advise and assist the Director of the Office of Science and Technology Policy in the performance of those functions delegated under Section 4 of this Order.

SEC. 6. The records, property, personnel, and unexpended balances of appropriations, available or to be made available, which relate to the functions transferred, reassigned, or redelegated by this Order are hereby transferred to the Director of the Office of Management and Budget, the Director of the Office of Science and Technology Policy, or the Director of the National Science Foundation, as appropriate.

SEC. 7. The Director of the Office of Management and Budget shall make such determinations, issue such orders, and take all actions necessary or appropriate to effectuate the transfers or reassignments provided by this Order, including the transfer of funds, records, property, and personnel.

SEC. 8. This Order shall be effective on February 26, 1978.

JIMMY CARTER.

EXECUTIVE ORDER No. 12700

Ex. Ord. No. 12700, Jan. 19, 1990, 55 F.R. 2219, as amended by Ex. Ord. No. 12768, June 28, 1991, 56 F.R. 30302, which established the President's Council of Advisors on Science and Technology and provided for its functions, administration, and termination on June 30, 1993, was revoked by section 4(c) of Ex. Ord. No. 12882, §4(c), Nov. 23, 1993, 58 F.R. 62493, set out below. Ex. Ord. No. 12869, Sept. 30, 1993, §2, 58 F.R. 51751, set out as a note under section 14 of the Federal Advisory Committee Act in the Appendix to Title 5, Government Organization and Employees, which reestablished the President's Council of Advisors on Science and Technology in accordance with the provisions of Ex. Ord. No. 12700 and extended its term until Sept. 30, 1995, was also revoked by Ex. Ord. 12882, §4(c).

EX. ORD. NO. 12881. ESTABLISHMENT OF NATIONAL SCIENCE AND TECHNOLOGY COUNCIL

Ex. Ord. No. 12881, Nov. 23, 1993, 58 F.R. 62491, provided:

By the authority vested in me as President by the Constitution and the laws of the United States of America, including section 301 of title 3, United States Code, it is hereby ordered as follows:

SECTION 1. *Establishment*. There is established the National Science and Technology Council ("the Council").

SEC. 2. *Membership*. The Council shall comprise the:

(a) President, who shall serve as Chairman of the Council;

(b) Vice President;

(c) Secretary of Commerce;

(d) Secretary of Defense;

(e) Secretary of Energy;

(f) Secretary of Health and Human Services;

(g) Secretary of State;

(h) Secretary of the Interior;

(i) Administrator, National Aeronautics and Space Administration;

(j) Director, National Science Foundation;

(k) Director of the Office of Management and Budget;

(l) Administrator, Environmental Protection Agency;

(m) Assistant to the President for Science and Technology;

(n) National Security Adviser;

(o) Assistant to the President for Economic Policy;

(p) Assistant to the President for Domestic Policy; and

(q) Such other officials of executive departments and agencies as the President may, from time to time, designate.

SEC. 3. *Meetings of the Council*. The President or, upon his direction, the Assistant to the President for Science and Technology ("the Assistant"), may convene meetings of the Council. The President shall preside over the meetings of the Council, provided that in his absence the Vice President, and in his absence the Assistant, will preside.

SEC. 4. *Functions*. (a) The principal functions of the Council are, to the extent permitted by law: (1) to coordinate the science and technology policy-making process; (2) to ensure science and technology policy decisions and programs are consistent with the President's stated goals; (3) to help integrate the President's science and technology policy agenda across the Federal Government; (4) to ensure science and technology are considered in development and implementation of Federal policies and programs; and (5) to further international cooperation in science and technology. The Assistant may take such actions, including drafting a Charter, as may be necessary or appropriate to implement such functions.

(b) All executive departments and agencies, whether or not represented on the Council, shall coordinate science and technology policy through the Council and shall share information on research and development budget requests with the Council.

(c) The Council shall develop for submission to the Director of the Office of Management and Budget recommendations on research and development budgets that reflect national goals. In addition, the Council shall provide advice to the Director of the Office of Management and Budget concerning the agencies' research and development budget submissions.

(d) The Assistant will, when appropriate, work in conjunction with the Assistant to the President for Economic Policy, the Assistant to the President for Domestic Policy, the Director of the Office of Management and Budget, and the National Security Adviser.

SEC. 5. *Administration*. (a) The Council will oversee the duties of the Federal Coordinating Council for Science, Engineering, and Technology, the National Space Council, and the National Critical Materials Council.

(b) The Council may function through established or ad hoc committees, task forces, or interagency groups.

(c) To the extent practicable and permitted by law, executive departments and agencies shall make resources, including, but not limited to, personnel, office support, and printing, available to the Council as requested by the Assistant.

(d) All executive departments and agencies shall cooperate with the Council and provide such assistance, information, and advice to the Council as the Council may request, to the extent permitted by law.

WILLIAM J. CLINTON.

EX. ORD. NO. 12882. PRESIDENT'S COMMITTEE OF ADVISORS ON SCIENCE AND TECHNOLOGY

Ex. Ord. No. 12882, Nov. 23, 1993, 58 F.R. 62493, as amended by Ex. Ord. No. 12907, Apr. 14, 1994, 59 F.R. 18291, provided:

By the authority vested in me as President by the Constitution and the laws of the United States of America, including section 301 of title 3, United States Code, and in order to establish an advisory committee on science and technology, it is hereby ordered as follows:

SECTION 1. *Establishment.* There is established the President's Committee of Advisors on Science and Technology ("PCAST"). PCAST shall be composed of not more than 19 members, one of whom shall be the Assistant to the President for Science and Technology ("Assistant"), and 18 of whom shall be distinguished individuals from the nonfederal sector appointed by the President. The nonfederal sector members shall be representative of the diverse perspectives and expertise in this Nation's investments in science and technology. The Assistant to the President for Science and Technology shall co-chair PCAST with a nonfederal sector member selected by the President.

SEC. 2. *Functions.* (a) The PCAST shall advise the President, through the Assistant, on matters involving science and technology.

(b) In the performance of its advisory duties, PCAST shall assist the National Science and Technology Council ("Council") in securing private sector involvement in its activities.

SEC. 3. *Administration.* (a) The heads of executive departments and agencies shall, to the extent permitted by law, provide PCAST such information with respect to scientific and technological matters as required for the purpose of carrying out its functions.

(b) In consultation with the Assistant to the President for Science and Technology, PCAST is authorized to convene ad hoc working groups to assist the Council.

(c) Members of PCAST shall serve without any compensation for their work on PCAST. However, members may be allowed travel expenses, including per diem in lieu of subsistence, as authorized by law for persons serving intermittently in the government service (5 U.S.C. 5701-5707).

(d) Any expenses of PCAST shall be paid from the funds available for the expenses of the Office of Science and Technology Policy.

(e) The Office of Science and Technology Policy shall provide such administrative services as may be required.

SEC. 4. *General.* (a) I have determined that the Committee shall be established in compliance with the Federal Advisory Committee Act, as amended (5 U.S.C. App.). Notwithstanding any other Executive order, the functions of the President under the Federal Advisory Committee Act, as amended, except that of reporting to the Congress, which are applicable to PCAST shall be performed by the Office of Science and Technology Policy in accordance with the guidelines and procedures established by the Administrator of General Services.

(b) PCAST shall terminate 2 years from the date of this order unless extended prior to that date.

(c) Executive Orders Nos. 12700, 12768, and Section 2 of Executive Order No. 12869 [set out as a note under sec-

tion 14 of the Federal Advisory Committee Act in the Appendix to Title 5, Government Organization and Employees] are hereby revoked.

WILLIAM J. CLINTON.

EXTENSION OF TERM OF PRESIDENT'S COMMITTEE OF ADVISORS ON SCIENCE AND TECHNOLOGY

Term of the President's Committee of Advisors on Science and Technology extended until Sept. 30, 1997, by Ex. Ord. No. 12974, Sept. 29, 1995, 60 F.R. 51875, set out as a note under section 14 of the Federal Advisory Committee Act in the Appendix to Title 5, Government Organization and Employees.

EX. ORD. NO. 12975. PROTECTION OF HUMAN RESEARCH SUBJECTS AND CREATION OF NATIONAL BIOETHICS ADVISORY COMMISSION

Ex. Ord. No. 12975, Oct. 3, 1995, 60 F.R. 52063, provided:

By the authority vested in me as President by the Constitution and the laws of the United States of America, it is hereby ordered as follows:

SECTION 1. *Review of Policies and Procedures.* (a) Each executive branch department and agency that conducts, supports, or regulates research involving human subjects shall promptly review the protections of the rights and welfare of human research subjects that are afforded by the department's or agency's existing policies and procedures. In conducting this review, departments and agencies shall take account of the recommendations contained in the report of the Advisory Committee on Human Radiation Experiments.

(b) Within 120 days of the date of this order, each department and agency that conducts, supports, or regulates research involving human subjects shall report the results of the review required by paragraph (a) of this section to the National Bioethics Advisory Commission, created pursuant to this order. The report shall include an identification of measures that the department or agency plans or proposes to implement to enhance human subject protections. As set forth in section 5 of this order, the National Bioethics Advisory Commission shall pursue, as its first priority, protection of the rights and welfare of human research subjects.

(c) For purposes of this order, the terms "research" and "human subject" shall have the meaning set forth in the 1991 Federal Policy for the Protection of Human Subjects.

SEC. 2. *Research Ethics.* Each executive branch department and agency that conducts, supports, or regulates research involving human subjects shall, to the extent practicable and appropriate, develop professional and public educational programs to enhance activities related to human subjects protection, provide forums for addressing ongoing and emerging issues in human subjects research, and familiarize professionals engaged in nonfederally-funded research with the ethical considerations associated with conducting research involving human subjects. Where appropriate, such professional and educational programs should be organized and conducted with the participation of medical schools, universities, scientific societies, voluntary health organizations, or other interested parties.

SEC. 3. *Establishment of National Bioethics Advisory Commission.* (a) There is hereby established a National Bioethics Advisory Commission ("NBAC"). NBAC shall be composed of not more than 15 members to be appointed by the President. NBAC shall be subject to the Federal Advisory Committee Act, as amended (5 U.S.C. App.).

(b) The President shall designate a Chairperson from among the members of NBAC.

SEC. 4. *Functions.* (a) NBAC shall provide advice and make recommendations to the National Science and Technology Council and to other appropriate government entities regarding the following matters:

(1) the appropriateness of departmental, agency, or other governmental programs, policies, assignments, missions, guidelines, and regulations as they relate to

bioethical issues arising from research on human biology and behavior; and

(2) applications, including the clinical applications, of that research.

(b) NBAC shall identify broad principles to govern the ethical conduct of research, citing specific projects only as illustrations for such principles.

(c) NBAC shall not be responsible for the review and approval of specific projects.

(d) In addition to responding to requests for advice and recommendations from the National Science and Technology Council, NBAC also may accept suggestions of issues for consideration from both the Congress and the public. NBAC also may identify other bioethical issues for the purpose of providing advice and recommendations, subject to the approval of the National Science and Technology Council.

SEC. 5. *Priorities.* (a) As a first priority, NBAC shall direct its attention to consideration of: protection of the rights and welfare of human research subjects; and issues in the management and use of genetic information, including but not limited to, human gene patenting.

(b) NBAC shall consider four criteria in establishing the other priorities for its activities:

(1) the public health or public policy urgency of the bioethical issue;

(2) the relation of the bioethical issue to the goals for Federal investment in science and technology;

(3) the absence of another entity able to deliberate appropriately on the bioethical issue; and

(4) the extent of interest in the issue within the Federal Government.

SEC. 6. *Administration.* (a) The heads of executive departments and agencies shall, to the extent permitted by law, provide NBAC with such information as it may require for purposes of carrying out its functions.

(b) NBAC may conduct inquiries, hold hearings, and establish subcommittees, as necessary. The Assistant to the President for Science and Technology and the Secretary of Health and Human Services shall be notified upon establishment of each subcommittee, and shall be provided information on the name, membership (including chair), function, estimated duration, and estimated frequency of meetings of the subcommittee.

(c) NBAC is authorized to conduct analyses and develop reports or other materials. In order to augment the expertise present on NBAC, the Secretary of Health and Human Services may contract for the services of nongovernmental consultants who may conduct analyses, prepare reports and background papers, or prepare other materials for consideration by NBAC, as appropriate.

(d) Members of NBAC shall be compensated in accordance with Federal law. Members of NBAC may be allowed travel expenses, including per diem in lieu of subsistence, to the extent permitted by law for persons serving intermittently in the government service (5 U.S.C. 5701-5707).

(e) To the extent permitted by law, and subject to the availability of appropriations, the Department of Health and Human Services shall provide NBAC with such funds as may be necessary for the performance of its functions. The Secretary of Health and Human Services shall provide management and support services to NBAC.

SEC. 7. *General Provisions.* (a) Notwithstanding the provisions of any other Executive order, the functions of the President under the Federal Advisory Committee Act that are applicable to NBAC, except that of reporting annually to the Congress, shall be performed by the Secretary of Health and Human Services, in accordance with the guidelines and procedures established by the Administrator of General Services.

(b) NBAC shall terminate two years from the date of this order unless extended prior to that date.

(c) This order is intended only to improve the internal management of the executive branch and it is not intended to create any right, benefit, trust, or respon-

sibility, substantive or procedural, enforceable at law or equity by a party against the United States, its agencies, its officers, or any person.

WILLIAM J. CLINTON.

SECTION REFERRED TO IN OTHER SECTIONS

This section is referred to in section 6614 of this title.

§ 6602. Congressional declaration of policy

(a) Principles

In view of the foregoing, the Congress declares that the United States shall adhere to a national policy for science and technology which includes the following principles:

(1) The continuing development and implementation of strategies for determining and achieving the appropriate scope, level, direction, and extent of scientific and technological efforts based upon a continuous appraisal of the role of science and technology in achieving goals and formulating policies of the United States, and reflecting the views of State and local governments and representative public groups.

(2) The enlistment of science and technology to foster a healthy economy in which the directions of growth and innovation are compatible with the prudent and frugal use of resources and with the preservation of a benign environment.

(3) The conduct of science and technology operations so as to serve domestic needs while promoting foreign policy objectives.

(4) The recruitment, education, training, retraining, and beneficial use of adequate numbers of scientists, engineers, and technologists, and the promotion by the Federal Government of the effective and efficient utilization in the national interest of the Nation's human resources in science, engineering, and technology.

(5) The development and maintenance of a solid base for science and technology in the United States, including: (A) strong participation of and cooperative relationships with State and local governments and the private sector; (B) the maintenance and strengthening of diversified scientific and technological capabilities in government, industry, and the universities, and the encouragement of independent initiatives based on such capabilities, together with elimination of needless barriers to scientific and technological innovation; (C) effective management and dissemination of scientific and technological information; (D) establishment of essential scientific, technical and industrial standards and measurement and test methods; and (E) promotion of increased public understanding of science and technology.

(6) The recognition that, as changing circumstances require periodic revision and adaptation of this subchapter, the Federal Government is responsible for identifying and interpreting the changes in those circumstances as they occur, and for effecting subsequent changes in this subchapter as appropriate.

(b) Implementation

To implement the policy enunciated in subsection (a) of this section, the Congress declares that:

(1) The Federal Government should maintain central policy planning elements in the executive branch which assist Federal agencies in (A) identifying public problems and objectives, (B) mobilizing scientific and technological resources for essential national programs, (C) securing appropriate funding for programs so identified, (D) anticipating future concerns to which science and technology can contribute and devising strategies for the conduct of science and technology for such purposes, (E) reviewing systematically Federal science policy and programs and recommending legislative amendment thereof when needed. Such elements should include an advisory mechanism within the Executive Office of the President so that the Chief Executive may have available independent, expert judgment and assistance on policy matters which require accurate assessments of the complex scientific and technological features involved.

(2) It is a responsibility of the Federal Government to promote prompt, effective, reliable, and systematic transfer of scientific and technological information by such appropriate methods as programs conducted by nongovernmental organizations, including industrial groups and technical societies. In particular, it is recognized as a responsibility of the Federal Government not only to coordinate and unify its own science and technology information systems, but to facilitate the close coupling of institutional scientific research with commercial application of the useful findings of science.

(3) It is further an appropriate Federal function to support scientific and technological efforts which are expected to provide results beneficial to the public but which the private sector may be unwilling or unable to support.

(4) Scientific and technological activities which may be properly supported exclusively by the Federal Government should be distinguished from those in which interests are shared with State and local governments and the private sector. Among these entities, cooperative relationships should be established which encourage the appropriate sharing of science and technology decisionmaking, funding support, and program planning and execution.

(5) The Federal Government should support and utilize engineering and its various disciplines and make maximum use of the engineering community, whenever appropriate, as an essential element in the Federal policy-making process.

(6) Comprehensive legislative support for the national science and technology effort requires that the Congress be regularly informed of the condition, health and vitality, and funding requirements of science and technology, the relation of science and technology to changing national goals, and the need for legislative modification of the Federal endeavor and structure at all levels as it relates to science and technology.

(c) Procedures

The Congress declares that, in order to expedite and facilitate the implementation of the

policy enunciated in subsection (a) of this section, the following coordinate procedures are of paramount importance:

(1) Federal procurement policy should encourage the use of science and technology to foster frugal use of materials, energy, and appropriated funds; to assure quality environment; and to enhance product performance.

(2) Explicit criteria, including cost-benefit principles where practicable, should be developed to identify the kinds of applied research and technology programs that are appropriate for Federal funding support and to determine the extent of such support. Particular attention should be given to scientific and technological problems and opportunities offering promise of social advantage that are so long range, geographically widespread, or economically diffused that the Federal Government constitutes the appropriate source for undertaking their support.

(3) Federal promotion of science and technology should emphasize quality of research, recognize the singular importance of stability in scientific and technological institutions, and for urgent tasks, seek to assure timeliness of results. With particular reference to Federal support for basic research, funds should be allocated to encourage education in needed disciplines, to provide a base of scientific knowledge from which future essential technological development can be launched, and to add to the cultural heritage of the Nation.

(4) Federal patent policies should be developed, based on uniform principles, which have as their objective the preservation of incentives for technological innovation and the application of procedures which will continue to assure the full use of beneficial technology to serve the public.

(5) Closer relationships should be encouraged among practitioners of different scientific and technological disciplines, including the physical, social, and biomedical fields.

(6) Federal departments, agencies, and instrumentalities should assure efficient management of laboratory facilities and equipment in their custody, including acquisition of effective equipment, disposal of inferior and obsolete properties, and cross-servicing to maximize the productivity of costly property of all kinds. Disposal policies should include attention to possibilities for further productive use.

(7) The full use of the contributions of science and technology to support State and local government goals should be encouraged.

(8) Formal recognition should be accorded those persons whose scientific and technological achievements have contributed significantly to the national welfare.

(9) The Federal Government should support applied scientific research, when appropriate, in proportion to the probability of its usefulness, insofar as this probability can be determined; but while maximizing the beneficial consequences of technology, the Government should act to minimize foreseeable injurious consequences.

(10) Federal departments, agencies, and instrumentalities should establish procedures to

insure among them the systematic interchange of scientific data and technological findings developed under their programs.

(Pub. L. 94-282, title I, §102, May 11, 1976, 90 Stat. 460.)

SECTION REFERRED TO IN OTHER SECTIONS

This section is referred to in section 6614 of this title.

SUBCHAPTER II—OFFICE OF SCIENCE AND TECHNOLOGY POLICY

SUBCHAPTER REFERRED TO IN OTHER SECTIONS

This subchapter is referred to in sections 6632, 6671 of this title.

§ 6611. Establishment of Office

There is established in the Executive Office of the President an Office of Science and Technology Policy (hereinafter referred to in this subchapter as the "Office").

(Pub. L. 94-282, title II, §202, May 11, 1976, 90 Stat. 463.)

SHORT TITLE

For short title of this subchapter as the "Presidential Science and Technology Advisory Organization Act of 1976", see section 201 of Pub. L. 94-282, set out as a Short Title note under section 6601 of this title.

HIGH-RESOLUTION INFORMATION SYSTEM ADVISORY BOARD

Pub. L. 102-245, title V, §501, Feb. 14, 1992, 106 Stat. 22, authorized the Director of the Office of Science and Technology Policy to establish within that office a High-Resolution Information Systems Advisory Board to monitor and, as appropriate, foster the development and competitiveness of United States-based high-resolution information systems industries, further provided that "high-resolution information systems" means equipment and techniques required to create, store, recover, and play back high-resolution images and accompanying sound, further provided for functions of the Board, including provision of guidance and advice relating to establishment of such industries as well as transfer of Federal technologies to the private sector, further provided for membership and procedures of the Board, including submission of annual report of its activities to the President and Congress, and further provided for limitation on functions of Board and appropriations through fiscal year 1993.

§ 6612. Director; Associate Directors

There shall be at the head of the Office a Director who shall be appointed by the President, by and with the advice and consent of the Senate, and who shall be compensated at the rate provided for level II of the Executive Schedule in section 5313 of title 5. The President is authorized to appoint not more than four Associate Directors, by and with the advice and consent of the Senate, who shall be compensated at a rate not to exceed that provided for level III of the Executive Schedule in section 5314 of such title. Associate Directors shall perform such functions as the Director may prescribe.

(Pub. L. 94-282, title II, §203, May 11, 1976, 90 Stat. 463.)

SECTION REFERRED TO IN OTHER SECTIONS

This section is referred to in section 6632 of this title.

§ 6613. Functions of the Director

(a) The primary function of the Director is to provide, within the Executive Office of the President, advice on the scientific, engineering, and technological aspects of issues that require attention at the highest levels of Government.

(b) In addition to such other functions and activities as the President may assign, the Director shall—

(1) advise the President of scientific and technological considerations involved in areas of national concern including, but not limited to, the economy, national security, health, foreign relations, the environment, and the technological recovery and use of resources;

(2) evaluate the scale, quality, and effectiveness of the Federal effort in science and technology and advise on appropriate actions;

(3) advise the President on scientific and technological considerations with regard to Federal budgets, assist the Office of Management and Budget with an annual review and analysis of funding proposed for research and development in budgets of all Federal agencies, and aid the Office of Management and Budget and the agencies throughout the budget development process; and

(4) assist the President in providing general leadership and coordination of the research and development programs of the Federal Government.

(Pub. L. 94-282, title II, §204, May 11, 1976, 90 Stat. 463.)

§ 6614. Policy planning; analysis; advice; establishment of advisory panel

(a) The Office shall serve as a source of scientific and technological analysis and judgment for the President with respect to major policies, plans, and programs of the Federal Government. In carrying out the provisions of this section, the Director shall—

(1) seek to define coherent approaches for applying science and technology to critical and emerging national and international problems and for promoting coordination of the scientific and technological responsibilities and programs of the Federal departments and agencies in the resolution of such problems;

(2) assist and advise the President in the preparation of the Science and Technology Report, in accordance with section 6618¹ of this title;

(3) gather timely and authoritative information concerning significant developments and trends in science, technology, and in national priorities, both current and prospective, to analyze and interpret such information for the purpose of determining whether such developments and trends are likely to affect achievement of the priority goals of the Nation as set forth in section 6601(b) of this title;

(4) encourage the development and maintenance of an adequate data base for human resources in science, engineering, and technology, including the development of appropriate models to forecast future manpower requirements, and assess the impact of major

¹ See References in Text note below.

governmental and public programs on human resources and their utilization;

(5) initiate studies and analyses, including systems analyses and technology assessments, of alternatives available for the resolution of critical and emerging national and international problems amendable to the contributions of science and technology and, insofar as possible, determine and compare probable costs, benefits, and impacts of such alternatives;

(6) advise the President on the extent to which the various scientific and technological programs, policies, and activities of the Federal Government are likely to affect the achievement of the priority goals of the Nation as set forth in section 6601(b) of this title;

(7) provide the President with periodic reviews of Federal statutes and administrative regulations of the various departments and agencies which affect research and development activities, both internally and in relation to the private sector, or which may interfere with desirable technological innovation, together with recommendations for their elimination, reform, or updating as appropriate;

(8) develop, review, revise, and recommend criteria for determining scientific and technological activities warranting Federal support, and recommend Federal policies designed to advance (A) the development and maintenance of broadly based scientific and technological capabilities, including human resources, at all levels of government, academia, and industry, and (B) the effective application of such capabilities to national needs;

(9) assess and advise on policies for international cooperation in science and technology which will advance the national and international objectives of the United States;

(10) identify and assess emerging and future areas in which science and technology can be used effectively in addressing national and international problems;

(11) report at least once each year to the President and the Congress on the overall activities and accomplishments of the Office, pursuant to section 6615 of this title;

(12) periodically survey the nature and needs of national science and technology policy and make recommendations to the President, for review and transmission to the Congress, for the timely and appropriate revision of such policy in accordance with section 6602(a)(6) of this title; and

(13) perform such other duties and functions and make and furnish such studies and reports thereon, and recommendations with respect to matters of policy and legislation as the President may request.

(b)(1) The Director shall establish an Intergovernmental Science, Engineering, and Technology Advisory Panel (hereinafter referred to as the "Panel"), whose purpose shall be to (A) identify and define civilian problems at State, regional, and local levels which science, engineering, and technology may assist in resolving or ameliorating; (B) recommend priorities for addressing such problems; and (C) advise and assist the Director in identifying and fostering

policies to facilitate the transfer and utilization of research and development results so as to maximize their application to civilian needs.

(2) The Panel shall be composed of (A) the Director of the Office, or his representative; (B) at least ten members representing the interests of the States, appointed by the Director of the Office after consultation with State officials; and (C) the Director of the National Science Foundation, or his representative.

(3)(A) The Director of the Office, or his representative, shall serve as Chairman of the Panel.

(B) The Panel shall perform such functions as the Chairman may prescribe, and shall meet at the call of the Chairman.

(4) Each member of the Panel shall, while serving on business of the Panel, be entitled to receive compensation at a rate not to exceed the daily rate prescribed for GS-18 of the General Schedule under section 5332 of title 5, including traveltime, and, while so serving away from his home or regular place of business, he may be allowed travel expenses, including per diem in lieu of subsistence in the same manner as the expenses authorized by section 5703(b)² of title 5 for persons in government service employed intermittently.

(Pub. L. 94-282, title II, §205, May 11, 1976, 90 Stat. 464; Pub. L. 97-375, title II, §215(2), (4), Dec. 21, 1982, 96 Stat. 1826, 1827.)

REFERENCES IN TEXT

Section 6618 of this title, referred to in subsec. (a)(2), was repealed by Pub. L. 97-375, title II, §215(1), Dec. 21, 1982, 96 Stat. 1826. See section 6615 of this title.

Section 5703 of title 5, referred to in subsec. (b)(4), was amended generally by Pub. L. 94-22, §4, May 19, 1975, 89 Stat. 85, and, as so amended, does not contain a subsec. (b).

AMENDMENTS

1982—Subsec. (a)(11). Pub. L. 97-375, §215(2), (4), inserted "and the Congress" after "President", and substituted "section 6615" for "section 6618".

TRANSFER OF FUNCTIONS

Functions vested in Office of Science and Technology Policy and Director thereof pursuant to subsec. (a)(2) of this section and sections 6615 and 6618 of this title transferred to Director of National Science Foundation by section 5A of Reorg. Plan No. 1 of 1977, set out in the Appendix to Title 5, Government Organization and Employees, effective Feb. 26, 1978, as provided by section 1(a) of Ex. Ord. No. 12039, Feb. 24, 1978, 43 F.R. 8095, set out under section 6601 of this title.

ABOLITION OF INTERGOVERNMENTAL SCIENCE, ENGINEERING, AND TECHNOLOGY ADVISORY PANEL; TRANSFER OF FUNCTIONS

The Intergovernmental Science, Engineering, and Technology Advisory Panel, established pursuant to this section, was abolished and its functions transferred to the President by Reorg. Plan No. 1 of 1977, §5A, 42 F.R. 56101, 91 Stat. 1634, set out in the Appendix to Title 5, effective Feb. 26, 1978, as provided by section 1(b) of Ex. Ord. No. 12039, Feb. 24, 1978, 43 F.R. 8095, set out under section 6601 of this title.

REFERENCES IN OTHER LAWS TO GS-16, 17, OR 18 PAY RATES

References in laws to the rates of pay for GS-16, 17, or 18, or to maximum rates of pay under the General

² See References in Text note below.

Schedule, to be considered references to rates payable under specified sections of Title 5, Government Organization and Employees, see section 529 [title I, § 101(c)(1)] of Pub. L. 101-509, set out in a note under section 5376 of Title 5.

COMPUTER NETWORK STUDY

Pub. L. 99-383, §10, Aug. 21, 1986, 100 Stat. 816, provided that:

“(a) The Office of Science and Technology Policy (hereinafter referred to as the ‘Office’) shall undertake a study of critical problems and current and future options regarding communications networks for research computers, including supercomputers, at universities and Federal research facilities in the United States. The study shall include an analysis of—

“(1) the networking needs of the Nation’s academic and Federal research computer programs, including supercomputer programs, over the period which is fifteen years after the date of enactment of this Act [Aug. 21, 1986], including requirements in terms of volume of data, reliability of transmission, software compatibility, graphics capability, and transmission security;

“(2) the benefits and opportunities that an improved computer network would offer for electronic mail, file transfer, and remote access and communications for universities and Federal research facilities in the United States; and

“(3) the networking options available for linking academic and other federally supported research computers, including supercomputers, with a particular emphasis on the advantages and disadvantages, if any, of fiber optic systems.

“(b) The Office shall submit to the Congress—

“(1) within one year after the date of enactment of this Act [Aug. 21, 1986], a report on findings from the study undertaken pursuant to subsection (a) with respect to needs and options regarding communications networks for university and Federal research supercomputers within the United States; and

“(2) within two years after the date of enactment of this Act [Aug. 21, 1986], a report on findings from the study undertaken pursuant to subsection (a) with respect to needs and options regarding communications networks for all research computers at universities and Federal research facilities in the United States.”

SECTION REFERRED TO IN OTHER SECTIONS

This section is referred to in section 6617 of this title.

§ 6615. Science and technology report and outlook

(a) Contents of report

Notwithstanding the provisions of Reorganization Plan Number 1 of 1977, the Director shall render to the President for submission to the Congress no later than January 15 of each odd numbered year, a science and technology report and outlook (hereinafter referred to as the “report”) which shall be prepared under the guidance of the Office and with the cooperation of the Director of the National Science Foundation, with appropriate assistance from other Federal departments and agencies as the Office or the Director of the National Science Foundation deems necessary. The report shall include—

(1) a statement of the President’s current policy for the maintenance of the Nation’s leadership in science and technology;

(2) a review of developments of national significance in science and technology;

(3) a description of major Federal decisions and actions related to science and technology that have occurred since the previous such report;

(4) a discussion of currently important national issues in which scientific or technical considerations are of major significance;

(5) a forecast of emerging issues of national significance resulting from, or identified through, scientific research or in which scientific or technical considerations are of major importance; and

(6) a discussion of opportunities for, and constraints on, the use of new and existing scientific and technological information, capabilities, and resources, including manpower resources, to make significant contributions to the achievement of Federal program objectives and national goals.

(b) Printing; availability to public

The Office shall insure that the report, in the form approved by the President, is printed and made available as a public document.

(Pub. L. 94-282, title II, §206, May 11, 1976, 90 Stat. 466; Pub. L. 97-375, title II, §215(3), Dec. 21, 1982, 96 Stat. 1826.)

REFERENCES IN TEXT

Reorganization Plan Number 1 of 1977, referred to in subsec. (a), is Reorg. Plan No. 1 of 1977, 42 F.R. 56101, 91 Stat. 1633, which is set out in the Appendix to Title 5, Government Organization and Employees.

PRIOR PROVISIONS

Provisions similar to those in this section were contained in section 6618 of this title, Pub. L. 94-282, title II, §209, May 11, 1976, 90 Stat. 468, prior to repeal by Pub. L. 97-375, title II, §215(1), Dec. 21, 1982, 96 Stat. 1826.

AMENDMENTS

1982—Pub. L. 97-375 substituted provisions requiring the President to submit to Congress in odd numbered years a science and technology report and outlook for provisions which required the Office of Science and Technology Policy to create a five-year science and technology outlook, dealing with current and emerging problems and with opportunities for and constraints on new and existing capabilities, to be revised annually, composed with the consultation of officials of departments and agencies having related programs and responsibilities, and with officials of the Office of Management and Budget and other appropriate elements of the Executive Office of the President.

SECTION REFERRED TO IN OTHER SECTIONS

This section is referred to in section 6615 of this title.

§ 6616. Additional functions of Director

(a) Service as Chairman of Federal Coordinating Council for Science, Engineering, and Technology and as member of Domestic Council

The Director shall, in addition to the other duties and functions set forth in this subchapter—

(1) serve as Chairman of the Federal Coordinating Council for Science, Engineering, and Technology established under subchapter IV of this chapter; and

(2) serve as a member of the Domestic Council.

(b) Advice to National Security Council

For the purpose of assuring the optimum contribution of science and technology to the national security, the Director, at the request of the National Security Council, shall advise the

National Security Council in such matters concerning science and technology as relate to national security.

(c) Officers and employees; services; contracts; payments

In carrying out his functions under this chapter, the Director is authorized to—

(1) appoint such officers and employees as he may deem necessary to perform the functions now or hereafter vested in him and to prescribe their duties;

(2) obtain services as authorized by section 3109 of title 5 at rates not to exceed the rate prescribed for grade GS-18 of the General Schedule by section 5332 of title 5; and

(3) enter into contracts and other arrangements for studies, analyses, and other services with public agencies and with private persons, organizations, or institutions, and make such payments as he deems necessary to carry out the provisions of this chapter without legal consideration, without performance bonds, and without regard to section 5 of title 41.

(Pub. L. 94-282, title II, §207, May 11, 1976, 90 Stat. 466.)

ABOLITION OF THE FEDERAL COORDINATING COUNCIL FOR SCIENCE, ENGINEERING, AND TECHNOLOGY; TRANSFER OF FUNCTIONS

See note set out under section 6651 of this title.

REFERENCES IN OTHER LAWS TO GS-16, 17, OR 18 PAY RATES

References in laws to the rates of pay for GS-16, 17, or 18, or to maximum rates of pay under the General Schedule, to be considered references to rates payable under specified sections of Title 5, Government Organization and Employees, see section 529 [title I, §101(c)(1)] of Pub. L. 101-509, set out in a note under section 5376 of Title 5.

§ 6617. Coordination with other organizations

(a) Consultation and cooperation with Federal departments and agencies; utilization of consultants; establishment of advisory panels; consultation with State and local agencies, professional groups, and representatives of industry, etc.; hearings; utilization of services, personnel, equipment, etc., of public and private agencies and organizations, and individuals

In exercising his functions under this chapter, the Director shall—

(1) work in close consultation and cooperation with the Domestic Council, the National Security Council, the Council on Environmental Quality, the Council of Economic Advisers, the Office of Management and Budget, the National Science Board, and the Federal departments and agencies;

(2) utilize the services of consultants, establish such advisory panels, and, to the extent practicable, consult with State and local governmental agencies, with appropriate professional groups, and with such representatives of industry, the universities, agriculture, labor, consumers, conservation organizations, and such other public interest groups, organizations, and individuals as he deems advisable;

(3) hold such hearings in various parts of the Nation as he deems necessary, to determine

the views of the agencies, groups, and organizations referred to in paragraph (2) of this subsection and of the general public, concerning national needs and trends in science and technology; and

(4) utilize with their consent to the fullest extent possible the services, personnel, equipment, facilities, and information (including statistical information) of public and private agencies and organizations, and individuals, in order to avoid duplication of effort and expense, and may transfer funds made available pursuant to this chapter to other Federal agencies as reimbursement for the utilization of such personnel, services, facilities, equipment, and information.

(b) Information from Executive departments, agencies, and instrumentalities

Each department, agency, and instrumentality of the Executive Branch of the Government, including any independent agency, is authorized to furnish the Director such information as the Director deems necessary to carry out his functions under this chapter.

(c) Assistance from Administrator of National Aeronautics and Space Administration

Upon request, the Administrator of the National Aeronautics and Space Administration is authorized to assist the Director with respect to carrying out his activities conducted under paragraph (5) of section 6614(a) of this title.

(Pub. L. 94-282, title II, §208, May 11, 1976, 90 Stat. 467.)

§ 6618. Major science and technology proposals

The Director shall identify and provide an annual report to Congress on each major multinational science and technology project, in which the United States is not a participant, which has a total estimated cost greater than \$1,000,000,000.

(Pub. L. 94-282, title II, §209, as added Pub. L. 102-245, title V, §502, Feb. 14, 1992, 106 Stat. 24.)

PRIOR PROVISIONS

A prior section 6618, Pub. L. 94-282, title II, §209, May 11, 1976, 90 Stat. 468, directed President to transmit annually to Congress a report on science and technology to be prepared by Office of Science and Technology Policy, and directed Director of Office to make the report available as a public document, prior to repeal by Pub. L. 97-375, title II, §215(1), Dec. 21, 1982, 96 Stat. 1826. See section 6615 of this title.

SUBCHAPTER III—PRESIDENT'S COMMITTEE ON SCIENCE AND TECHNOLOGY

SUBCHAPTER REFERRED TO IN OTHER SECTIONS

This subchapter is referred to in section 6671 of this title.

§ 6631. Establishment of Committee

The President shall establish within the Executive Office of the President a President's Committee on Science and Technology (hereinafter referred to as the "Committee").

(Pub. L. 94-282, title III, §301, May 11, 1976, 90 Stat. 468.)

ABOLITION OF PRESIDENT'S COMMITTEE ON SCIENCE AND TECHNOLOGY; TRANSFER OF FUNCTIONS

The President's Committee on Science and Technology, established pursuant to this subchapter, was abolished and its functions transferred to the President, by Reorg. Plan No. 1 of 1977, §5A, 42 F.R. 56101, 91 Stat. 1634, set out in the Appendix to Title 5, Government Organization and Employees, effective Feb. 26, 1978, as provided by section 1(b) of Ex. Ord. No. 12039, Feb. 24, 1978, 43 F.R. 8095, set out under section 6601 of this title.

§ 6632. Membership of Committee

(a) Composition; appointment

The Committee shall consist of—

(1) the Director of the Office of Science and Technology Policy established under subchapter II of this chapter; and

(2) not less than eight nor more than fourteen other members appointed by the President not more than sixty days after the Director has assumed office (as provided in section 6612 of this title).

(b) Qualifications

Members of the Committee appointed by the President pursuant to subsection (a)(2) of this section shall—

(1) be qualified and distinguished in one or more of the following areas: science, engineering, technology, information dissemination, education, management, labor, or public affairs;

(2) be capable of critically assessing the policies, priorities, programs, and activities of the Nation, with respect to the findings, policies, and purposes set forth in subchapter I of this chapter; and

(3) shall collectively constitute a balanced composition with respect to (A) fields of science and engineering, (B) academic, industrial, and government experience, and (C) business, labor, consumer, and public interest points of view.

(c) Chairman; Vice Chairman

The President shall appoint one member of the Committee to serve as Chairman and another member to serve as Vice Chairman for such periods as the President may determine.

(d) Compensation

Each member of the Committee who is not an officer of the Federal Government shall, while serving on business of the Committee, be entitled to receive compensation at a rate not to exceed the daily rate prescribed for GS-18 of the General Schedule under section 5332 of title 5, including traveltime, and while so serving away from his home or regular place of business he may be allowed travel expenses, including per diem in lieu of subsistence, in the same manner as the expenses authorized by section 5703(b)¹ of title 5 for persons in Government service employed intermittently.

(Pub. L. 94-282, title III, §302, May 11, 1976, 90 Stat. 468.)

REFERENCES IN TEXT

Section 5703 of title 5, referred to in subsec. (d), was amended generally by Pub. L. 94-22, §4, May 19, 1975, 89

¹ See References in Text note below.

Stat. 95, and, as so amended, does not contain a subsec. (b).

ABOLITION OF PRESIDENT'S COMMITTEE ON SCIENCE AND TECHNOLOGY; TRANSFER OF FUNCTIONS

See note set out under section 6631 of this title.

REFERENCES IN OTHER LAWS TO GS-16, 17, OR 18 PAY RATES

References in laws to the rates of pay for GS-16, 17, or 18, or to maximum rates of pay under the General Schedule, to be considered references to rates payable under specified sections of Title 5, Government Organization and Employees, see section 529 [title I, §101(c)(1)] of Pub. L. 101-509, set out in a note under section 5376 of Title 5.

SECTION REFERRED TO IN OTHER SECTIONS

This section is referred to in section 6633 of this title.

§ 6633. Federal science, engineering, and technology survey; reports

(a) The Committee shall survey, examine, and analyze the overall context of the Federal science, engineering, and technology effort including missions, goals, personnel, funding, organization, facilities, and activities in general, taking adequate account of the interests of individuals and groups that may be affected by Federal scientific, engineering, and technical programs, including, as appropriate, consultation with such individuals and groups. In carrying out its functions under this section, the Committee shall, among other things, consider needs for—

(1) organizational reform, including institutional realignment designed to place Federal agencies whose missions are primarily or solely devoted to scientific and technological research and development, and those agencies primarily or solely concerned with fuels, energy, and materials, within a single cabinet-level department;

(2) improvements in existing systems for handling scientific and technical information on a Government-wide basis, including consideration of the appropriate role to be played by the private sector in the dissemination of such information;

(3) improved technology assessment in the executive branch of the Federal Government;

(4) improved methods for effecting technology innovation, transfer, and use;

(5) stimulating more effective Federal-State and Federal-industry liaison and cooperation in science and technology, including the formation of Federal-State mechanisms for the mutual pursuit of this goal;

(6) reduction and simplification of Federal regulations and administrative practices and procedures which may have the effect of retarding technological innovation or opportunities for its utilization;

(7) a broader base for support of basic research;

(8) ways of strengthening the Nation's academic institutions' capabilities for research and education in science and technology;

(9) ways and means of effectively integrating scientific and technological factors into our national and international policies;

(10) technology designed to meet community and individual needs;

(11) maintenance of adequate scientific and technological manpower with regard to both quality and quantity;

(12) improved systems for planning and analysis of the Federal science and technology programs; and

(13) long-range study, analysis, and planning in regard to the application of science and technology to major national problems or concerns.

(b)(1) Within twelve months from the time the Committee is activated in accordance with section 6632(a) of this title, the Committee shall issue an interim report of its activities and operations to date. Not more than twenty-four months from the time the Committee is activated, the Committee shall submit a final report of its activities, findings, conclusions, and recommendations, including such supporting data and material as may be necessary, to the President.

(2) The President, within sixty days of receipt thereof, shall transmit each such report to each House of Congress together with such comments, observations, and recommendations thereon as he deems appropriate.

(Pub. L. 94-282, title III, §303, May 11, 1976, 90 Stat. 469.)

ABOLITION OF PRESIDENT'S COMMITTEE ON SCIENCE AND TECHNOLOGY; TRANSFER OF FUNCTIONS

See note set out under section 6631 of this title.

SECTION REFERRED TO IN OTHER SECTIONS

This section is referred to in sections 6634, 6635 of this title.

§ 6634. Continuation of Committee

(a) Ninety days after submission of the final report prepared under section 6633 of this title, the Committee shall cease to exist, unless the President, before the expiration of the ninety-day period, makes a determination that it is advantageous for the Committee to continue in being.

(b) If the President determines that it is advantageous for the Committee to continue in being, (1) the Committee shall exercise such functions as are prescribed by the President; and (2) the members of the Committee shall serve at the pleasure of the President.

(Pub. L. 94-282, title III, §304, May 11, 1976, 90 Stat. 470.)

ABOLITION OF PRESIDENT'S COMMITTEE ON SCIENCE AND TECHNOLOGY; TRANSFER OF FUNCTIONS

See note set out under section 6631 of this title.

SECTION REFERRED TO IN OTHER SECTIONS

This section is referred to in section 6635 of this title.

§ 6635. Staff and consultant support

(a) In the performance of its functions under sections 6633 and 6634 of this title, the Committee is authorized—

(1) to select, appoint, employ, and fix the compensation of such specialists and other experts as may be necessary for the carrying out of its duties and functions, and to select, appoint, and employ, subject to the civil service

laws, such other officers and employees as may be necessary for carrying out its duties and functions; and

(2) to provide for participation of such civilian and military personnel as may be detailed to the Committee pursuant to subsection (b) of this section for carrying out the functions of the Committee.

(b) Upon request of the Committee, the head of any Federal department, agency, or instrumentality is authorized (1) to furnish to the Committee such information as may be necessary for carrying out its functions and as may be available to or procurable by such department, agency, or instrumentality, and (2) to detail to temporary duty with the Committee on a reimbursable basis such personnel within his administrative jurisdiction as it may need or believe to be useful for carrying out its functions. Each such detail shall be without loss of seniority, pay, or other employee status, to civilian employees so detailed, and without loss of status, rank, office, or grade, or of any emolument, perquisite, right, privilege, or benefit incident thereto to military personnel so detailed. Each such detail shall be made pursuant to an agreement between the Chairman and the head of the relevant department, agency, or instrumentality, and shall be in accordance with the provisions of subchapter III of chapter 33, title 5.

(Pub. L. 94-282, title III, §305, May 11, 1976, 90 Stat. 470.)

REFERENCES IN TEXT

The civil service laws, referred to in subsec. (a)(1), are set out in Title 5, Government Organization and Employees. See, particularly, section 3301 et seq. of Title 5.

ABOLITION OF PRESIDENT'S COMMITTEE ON SCIENCE AND TECHNOLOGY; TRANSFER OF FUNCTIONS

See note set out under section 6631 of this title.

SUBCHAPTER IV—FEDERAL COORDINATING COUNCIL FOR SCIENCE, ENGINEERING, AND TECHNOLOGY

SUBCHAPTER REFERRED TO IN OTHER SECTIONS

This subchapter is referred to in section 6616 of this title.

§ 6651. Establishment, membership, and functions of Council

(a) Designation

There is established the Federal Coordinating Council for Science, Engineering, and Technology (hereinafter referred to as the "Council").

(b) Composition

The Council shall be composed of the Director of the Office of Science and Technology Policy and one representative of each of the following Federal agencies: Department of Agriculture, Department of Commerce, Department of Defense, Department of Health and Human Services, Department of Housing and Urban Development, Department of the Interior, Department of State, Department of Transportation, Department of Veterans Affairs, National Aeronautics and Space Administration, National Science

Foundation, Environmental Protection Agency, and Department of Energy. Each such representative shall be an official of policy rank designated by the head of the Federal agency concerned.

(c) Chairman

The Director of the Office of Science and Technology Policy shall serve as Chairman of the Council. The Chairman may designate another member of the Council to act temporarily in the Chairman's absence as Chairman.

(d) Participation of unnamed Federal agencies in meetings; invitations to attend meetings

The Chairman may (1) request the head of any Federal agency not named in subsection (b) of this section to designate a representative to participate in meetings or parts of meetings of the Council concerned with matters of substantial interest to such agency, and (2) invite other persons to attend meetings of the Council.

(e) Consideration of problems and developments affecting more than one Federal agency; recommendations

The Council shall consider problems and developments in the fields of science, engineering, and technology and related activities affecting more than one Federal agency, and shall recommend policies and other measures designed to—

- (1) provide more effective planning and administration of Federal scientific, engineering, and technological programs,
- (2) identify research needs including areas requiring additional emphasis,
- (3) achieve more effective utilization of the scientific, engineering, and technological resources and facilities of Federal agencies, including the elimination of unwarranted duplication, and
- (4) further international cooperation in science, engineering, and technology.

(f) Other advisory duties

The Council shall perform such other related advisory duties as shall be assigned by the President or by the Chairman.

(g) Assistance to Council by agency represented thereon

For the purpose of carrying out the provisions of this section, each Federal agency represented on the Council shall furnish necessary assistance to the Council. Such assistance may include—

- (1) detailing employees to the Council to perform such functions, consistent with the purposes of this section, as the Chairman may assign to them, and
- (2) undertaking, upon request of the Chairman, such special studies for the Council as come within the functions herein assigned.

(h) Establishment of subcommittees and panels

For the purpose of conducting studies and making reports as directed by the Chairman, standing subcommittees and panels of the Council may be established. Among such standing subcommittees and panels of the Council shall be the Subcommittee on Food, Agricultural, and Forestry Research. This subcommittee shall re-

view Federal research and development programs relevant to domestic and world food and fiber production and distribution, promote planning and coordination of this research in the Federal Government, and recommend policies and other measures concerning the food and agricultural sciences for the consideration of the Council. The subcommittee shall include, but not be limited to, representatives of each of the following departments or agencies; the Department of Agriculture, the Department of State, the Department of Defense, the Department of the Interior, the Department of Health and Human Services, the National Oceanic and Atmospheric Administration, the Department of Energy, the National Science Foundation, the Environmental Protection Agency, and the Tennessee Valley Authority. The principal representatives of the Department of Agriculture shall serve as the chairman of the subcommittee.

(Pub. L. 94-282, title IV, §401, May 11, 1976, 90 Stat. 471; Pub. L. 95-91, title III, §301(a), title VII, §§703, 707, Aug. 4, 1977, 91 Stat. 577, 606, 607; Pub. L. 95-113, title XIV, §1406, Sept. 29, 1977, 91 Stat. 986; Pub. L. 97-98, title XIV, §1406(a), (b), Dec. 22, 1981, 95 Stat. 1298; Pub. L. 102-54, §13(q)(11), June 13, 1991, 105 Stat. 281.)

AMENDMENTS

1991—Subsec. (b). Pub. L. 102-54 substituted "Department of Veterans Affairs" for "Veterans' Administration".

1981—Subsec. (h). Pub. L. 97-98 substituted "Subcommittee on Food, Agricultural, and Forestry Research" for "Subcommittee on Food and Renewable Resources", "Department of Health and Human Services" for "Department of Health, Education, and Welfare", and "Department of Energy" for "Energy Research and Development Administration".

1977—Subsec. (h). Pub. L. 95-113 inserted provisions relating to Subcommittee on Food and Renewable Resources.

EFFECTIVE DATE OF 1981 AMENDMENT

Amendment by Pub. L. 97-98 effective Dec. 22, 1981, see section 1801 of Pub. L. 97-98, set out as an Effective Date note under section 4301 of Title 7, Agriculture.

EFFECTIVE DATE OF 1977 AMENDMENT

Amendment by Pub. L. 95-113 effective Oct. 1, 1977, see section 1901 of Pub. L. 95-113, set out as a note under section 1307 of Title 7, Agriculture.

TRANSFER OF FUNCTIONS

"Department of Energy" substituted for "Energy Research and Development Administration" in subsec. (b) pursuant to sections 301(a), 703, and 707 of Pub. L. 95-91, which are classified to sections 7151(a), 7293, and 7297 of this title and which terminated Energy Research and Development Administration and transferred its functions (with certain exceptions) to Secretary of Energy.

ABOLITION OF FEDERAL COORDINATING COUNCIL FOR SCIENCE, ENGINEERING, AND TECHNOLOGY; TRANSFER OF FUNCTIONS

The Federal Coordinating Council for Science, Engineering, and Technology, established pursuant to this section, was abolished and its functions transferred to the President by Reorg. Plan No. 1 of 1977, §5A, 42 F.R. 56101, 91 Stat. 1634, set out in the Appendix to Title 5, Government Organization and Employees, effective Feb. 26, 1978, as provided by section 1(b) of Ex. Ord. No. 12039, Feb. 24, 1978, 43 F.R. 8095, set out under section 6601 of this title.

SECTION REFERRED TO IN OTHER SECTIONS

This section is referred to in title 15 section 2932.

SUBCHAPTER V—GENERAL PROVISIONS

§ 6671. Authorization of appropriations

(a) For the purpose of carrying out subchapter II of this chapter, there are authorized to be appropriated—

- (1) \$750,000 for the fiscal year ending June 30, 1976;
- (2) \$500,000 for the period beginning July 1, 1976, and ending September 30, 1976;
- (3) \$3,000,000 for the fiscal year ending September 30, 1977; and
- (4) such sums as may be necessary for each of the succeeding fiscal years.

(b) For the purpose of carrying out subchapter III of this chapter, there are authorized to be appropriated—

- (1) \$750,000 for the fiscal year ending June 30, 1976;
- (2) \$500,000 for the period beginning July 1, 1976, and ending September 30, 1976;
- (3) \$1,000,000 for the fiscal year ending September 30, 1977; and
- (4) such sums as may be necessary for each of the succeeding fiscal years.

(Pub. L. 94-282, title V, §501, May 11, 1976, 90 Stat. 472.)

SUBCHAPTER VI—NATIONAL CRITICAL TECHNOLOGIES PANEL

SUBCHAPTER REFERRED TO IN OTHER SECTIONS

This subchapter is referred to in title 50 App. section 2170.

§ 6681. Establishment

The Director of the Office of Science and Technology Policy shall establish within that office¹ a National Critical Technologies Panel (hereinafter in this subchapter referred to as the “panel”). The panel shall prepare the biennial national critical technologies report required by section 6683 of this title.

(Pub. L. 94-282, title VI, §601, as added Pub. L. 101-189, div. A, title VIII, §841(a)(1), Nov. 29, 1989, 103 Stat. 1511.)

SECTION REFERRED TO IN OTHER SECTIONS

This section is referred to in title 50 App. section 2152.

§ 6682. Membership**(a) Composition and appointment**

The panel shall consist of 13 members appointed from among persons who are experts in science and engineering as follows:

- (1) The Director of the Office of Science and Technology Policy shall appoint nine members, of whom—
 - (A) three shall be Federal Government officials; and
 - (B) six shall be appointed from persons in private industry and higher education.
- (2) The Secretary of Defense shall appoint one member, who shall be an official of the Department of Defense.

(3) The Secretary of Energy shall appoint one member, who shall be an official of the Department of Energy.

(4) The Secretary of Commerce shall appoint one member, who shall be an official of the Department of Commerce.

(5) The Administrator of the National Aeronautics and Space Administration shall appoint one member, who shall be an official of that agency.

(b) Term of office; vacancies

(1) Members appointed under subsection (a)(1)(B) of this section shall serve for a term of two years.

(2) Any vacancy in the membership of the panel shall be filled in the same manner as the original appointment.

(c) Chairman

The Director shall designate one of the members appointed under subsection (a)(1)(A) of this section as chairman of the panel.

(Pub. L. 94-282, title VI, §602, as added Pub. L. 101-189, div. A, title VIII, §841(a)(1), Nov. 29, 1989, 103 Stat. 1511.)

§ 6683. Biennial national critical technologies report**(a) Report to President; identification of critical technologies; time for submission**

The panel shall submit to the President a biennial report on national critical technologies. Each such report shall identify those product technologies and process technologies that the panel considers to be national critical technologies. The number of the such technologies identified in any such report may not exceed 30, but shall include the most economically important emerging civilian technologies during the 10-year period following such report, together with the estimated current and future size of domestic and international markets for products derived from these technologies. The reports shall be submitted not later than October 1 of even-numbered years.

(b) Technologies considered national critical technologies

For purposes of subsection (a) of this section, a product or process technology may be considered to be a national critical technology if the panel determines it to be a technology that it is essential for the United States to develop to further the long-term national security or economic prosperity of the United States.

(c) Contents of report

Each such report shall include, with respect to each technology identified in the report, the following information:

- (1) The reasons for the panel’s selection of that technology.
- (2) The state of the development of that technology in the United States and in other countries.
- (3) An estimate of the current and anticipated level of research and development effort in the United States, including anticipated milestones for specific accomplishments, by—
 - (A) the Federal Government;

¹ So in original. Probably should be capitalized.

- (B) State and local governments;
- (C) private industry; and
- (D) colleges and universities.

(d) Types of research and development needed; technologies and markets targeted by trading partners

Each such report shall include—

- (1) an identification of the types of research and development needed to close any significant gaps or deficiencies in the technology base of the United States, as compared with the technology bases of major trading partners; and
- (2) a list of the technologies and markets targeted by major trading partners for development or capture.

(e) Submission to Congress

Not later than 30 days after the date on which a report is submitted to the President under this section, the President shall transmit the report, together with any comments that the President considers appropriate, to Congress.

(Pub. L. 94-282, title VI, § 603, as added Pub. L. 101-189, div. A, title VIII, § 841(a)(1), Nov. 29, 1989, 103 Stat. 1511; amended Pub. L. 102-245, title V, § 503, Feb. 14, 1992, 106 Stat. 24.)

AMENDMENTS

1992—Subsec. (a). Pub. L. 102-245, § 503(1), inserted “, but shall include the most economically important emerging civilian technologies during the 10-year period following such report, together with the estimated current and future size of domestic and international markets for products derived from these technologies” after “may not exceed 30”.

Subsec. (b). Pub. L. 102-245, § 503(2), substituted “national security or” for “national security and”.

Subsecs. (d), (e). Pub. L. 102-245, § 503(3), (4), added subsec. (d) and redesignated former subsec. (d) as (e).

SECTION REFERRED TO IN OTHER SECTIONS

This section is referred to in sections 2123, 6681, 6686, 6687 of this title; title 10 section 2491; title 15 sections 278n, 638; title 22 section 3142.

§ 6684. Administration and funding of panel

The Director of the Office of Science and Technology Policy shall provide administrative support for the panel. Funds for necessary expenses of the panel shall be provided for fiscal years after fiscal year 1990 from funds appropriated for that Office.

(Pub. L. 94-282, title VI, § 604, as added Pub. L. 101-189, div. A, title VIII, § 841(a)(1), Nov. 29, 1989, 103 Stat. 1512.)

REIMBURSEMENT FOR EXPENSES INCURRED DURING
FISCAL YEAR 1990

Section 841(a)(2) of Pub. L. 101-189 provided that: “The Secretary of Defense shall reimburse the Director of the Office of Science and Technology Policy for the reasonable expenses, not to exceed \$500,000, incurred by the National Critical Technologies Panel during fiscal year 1990.”

§ 6685. Expiration

The provisions of this subchapter shall cease to be effective on December 31, 2000, and the panel shall terminate on that date.

(Pub. L. 94-282, title VI, § 605, as added Pub. L. 101-189, div. A, title VIII, § 841(a)(1), Nov. 29, 1989, 103 Stat. 1512.)

§ 6686. Critical Technologies Institute

(a) Establishment

There shall be established a federally funded research and development center to be known as the “Critical Technologies Institute” (hereinafter in this section referred to as the “Institute”).

(b) Incorporation

As determined by the chairman of the committee referred to in subsection (c) of this section, the Institute shall be—

- (1) administered as a separate entity by an organization currently managing another federally funded research and development center; or
- (2) incorporated as a nonprofit membership corporation.

(c) Operating Committee

(1) The Institute shall have an Operating Committee composed of six members as follows:

(A) The Director of the Office of Science and Technology Policy, who shall chair the committee.

(B) The Director of the National Institutes of Health.

(C) The Under Secretary of Commerce for Technology.

(D) The Director of the Advanced Research Projects Agency.

(E) The Director of the National Science Foundation.

(F) The Under Secretary of Energy having responsibility for science and technology matters.

(2) The Operating Committee shall meet not less than four times each year.

(d) Duties

The duties of the Institute shall include the following:

(1) The assembly of timely and authoritative information regarding significant developments and trends in technology research and development in the United States and abroad, with particular emphasis on information relating to the technologies identified in the most recent biennial report submitted to Congress by the President pursuant to section 6683(d) of this title.

(2) Analysis and interpretation of the information referred to in paragraph (1) to determine whether such developments and trends are likely to affect United States technology policies.

(3) Initiation of studies and analyses (including systems analyses and technology assessments) of alternatives available for ensuring long-term leadership by the United States in the development and application of the technologies referred to in paragraph (1), including appropriate roles for the Federal Government, State governments, private industry, and institutions of higher education in the development and application of such technologies.

(4) Provision, upon the request of the Director of the Office of Science and Technology Policy, of technical support and assistance—

- (A) to the committees and panels of the President’s Council of Advisers on Science

and Technology that provide advice to the Executive branch on technology policy; and (B) to the committees and panels of the Federal Coordinating Council for Science, Engineering, and Technology that are responsible for planning and coordinating activities of the Federal Government to advance the development of critical technologies and sustain and strengthen the technology base of the United States.

(e) Consultation on Institute activities

In carrying out the duties referred to in subsection (d) of this section, personnel of the Institute shall—

(1) consult widely with representatives from private industry, institutions of higher education, and nonprofit institutions; and

(2) to the maximum extent practicable, incorporate information and perspectives derived from such consultations in carrying out such duties.

(f) Annual reports

The committee shall submit to the President an annual report on the activities of the committee under this section. Each report shall be in accordance with requirements prescribed by the President.

(g) Sponsorship

(1) The Director of the National Science Foundation shall be the sponsor of the Institute.

(2) The Director of the National Science Foundation, in consultation with the chairman of the committee, shall enter into a sponsoring agreement with respect to the Institute. The sponsoring agreement shall require that the Institute carry out such functions as the chairman of the committee may specify consistent with the duties referred to in subsection (d) of this section. The sponsoring agreement shall be consistent with the general requirements prescribed for such a sponsoring agreement by the Administrator for Federal Procurement Policy.

(Pub. L. 101-510, div. A, title VIII, §822, Nov. 5, 1990, 104 Stat. 1598; Pub. L. 102-25, title VII, §704(a)(5), Apr. 6, 1991, 105 Stat. 118; Pub. L. 102-190, div. A, title VIII, §822(c)(1), Dec. 5, 1991, 105 Stat. 1433; Pub. L. 103-160, div. A, title VIII, §803, Nov. 30, 1993, 107 Stat. 1701.)

CODIFICATION

Section was enacted as part of the National Defense Authorization Act for Fiscal Year 1991, and not as part of the National Science and Technology Policy, Organization, and Priorities Act of 1976 which comprises this chapter.

AMENDMENTS

1993—Subsec. (c). Pub. L. 103-160 amended heading and text of subsec. (c) generally. Prior to amendment, text consisted of pars. (1) to (4) relating to the composition, designation of chairman, terms of service, and meetings of the Operating Committee.

1991—Pub. L. 102-190 amended section generally, substituting present provisions for provisions establishing “Critical Technologies Institute” and providing for incorporation, Board of Trustees, duties of Institute, sponsorship of Institute, deadline for certain actions, and funding.

Subsec. (g)(1). Pub. L. 102-25, §704(a)(5)(A), substituted “appropriated pursuant to this Act” for “available for the Department of Defense” and struck

out “in the first fiscal year in which the Institute begins operations” after “activities of the Institute”.

Subsec. (g)(2). Pub. L. 102-25, §704(a)(5)(B), struck out “for each fiscal year after the fiscal year referred to in paragraph (1)” after “for the Institute”.

EFFECTIVE DATE OF 1991 AMENDMENTS

Section 822(c)(2), (3) of Pub. L. 102-190 provided that: “(2) The amendment made by paragraph (1) [amending this section] shall take effect as of November 5, 1990.

“(3) The sponsoring agreement required by subsection (g) of section 822 of Public Law 101-510 [subsec. (g) of this section], as amended by paragraph (1), shall be entered into not later than February 15, 1992.”

Amendment by Pub. L. 102-25 applicable as if included in enactment of Pub. L. 101-510, see section 704(e) of Pub. L. 102-25, set out as a note under section 12321 of Title 10, Armed Forces.

AUTHORIZATION OF APPROPRIATIONS

Section 822(d)(2) of Pub. L. 102-190 provided that: “There is authorized to be appropriated for each fiscal year after fiscal year 1991 for the Institute such sums as may be necessary for the operation of the Institute.”

§ 6687. Critical technology strategies

(a) Requirement for critical technology strategies

(1) The President shall develop and revise as needed a multiyear strategy for federally supported research and development for each critical technology designated by the President. In designating critical technologies for the purpose of this section, the President shall begin with the national critical technologies listed in a biennial report on national critical technologies submitted to Congress by the President pursuant to section 6683(d) of this title. A critical technology strategy may cover more than one critical technology.

(2) The President shall assign responsibilities and develop procedures for conducting executive branch activities to carry out this section.

(3) During the development of a critical technology strategy, the President shall provide for the following:

(A) The development of goals and objectives for the appropriate Federal role in the development of the critical technology or technologies that the President expects to be covered by the strategy.

(B) Close consultation with appropriate representatives of United States industries, members of industry associations, representatives of labor organizations in the United States, members of professional and technical societies in the United States and other persons who are qualified to provide advice and assistance in the development of such critical technology or technologies.

(C) The development of an organizational structure within the Federal Government that is appropriate for coordinating, managing, and reviewing the Federal Government’s role in the implementation of the strategy, including allocating roles among Federal departments and agencies.

(D) The development of policies and procedures for synergistic government, industrial, and university participation in the implementation of the strategy.

(E) The development of Federal budget estimates for research and development regarding

the critical technology or technologies covered by the strategy for the first five fiscal years covered by that strategy.

(b) Report

Not later than February 15 of each year, beginning in 1993, the President shall submit to Congress an annual report describing the implementation of subsection (a) of this section. The annual report shall include the following:

(1) For each critical technology designated by the President for the purpose of subsection (a) of this section, a description of the progress made in implementing subsection (a) of this section during the fiscal year preceding the fiscal year in which the report is submitted.

(2) A description of each proposed program, if any, for further implementing subsection (a) of this section with respect to a critical technology through the date for the submission of the next annual report.

(3) A copy of each strategy, if any, completed or revised pursuant to subsection (a) of this section during the fiscal year covered by the report.

(Pub. L. 102-190, div. A, title VIII, §822(a), (b), Dec. 5, 1991, 105 Stat. 1432, 1433.)

CODIFICATION

Section was enacted as part of the National Defense Authorization Act for Fiscal Years 1992 and 1993, and not as part of the National Science and Technology Policy, Organization, and Priorities Act of 1976 which comprises this chapter.

CHAPTER 80—PUBLIC WORKS EMPLOYMENT

SUBCHAPTER I—LOCAL PUBLIC WORKS

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SUBCHAPTER I—LOCAL PUBLIC WORKS

§ 6701. Definitions

As used in this subchapter, the term—

(1) "Secretary" means the Secretary of Commerce, acting through the Economic Development Administration.