

Controlled Substances Act [21 U.S.C. 801 et seq.] by the officers and employees of the Administration.

“(b) No funds authorized to be appropriated to the Administration for fiscal years 1989 through 1993 shall be available for payment in connection with any grant, contract, or other agreement, unless the recipient of such grant, contractor, or party to such agreement, as the case may be, has in place and will continue to administer in good faith a written policy, adopted by the board of directors or other government authority of such recipient, contractor, or party, satisfactory to the Administrator of the [National Aeronautics and Space] Administration, designed to ensure that all of the workplaces of such recipient, contractor, or party are free from the illegal use, possession, or distribution of controlled substances (as defined in the Controlled Substances Act) by the officers and employees of such recipient, contractor, or party.

“(c) The provisions of this section, and the provisions of the Steel and Aluminum Energy Conservation and Technology Competitiveness Act of 1988 [15 U.S.C. 5101 et seq.], the National Institute of Standards and Technology Authorization Act for Fiscal Year 1989 [Pub. L. 100-519, title I, Oct. 24, 1988, 102 Stat. 2589], the National Science Foundation Authorization Act for Fiscal Years 1989 and 1990 [probably means Pub. L. 100-570, Oct. 31, 1988, 102 Stat. 2865], and the National Nutrition Monitoring and Related Research Act of 1988 [probably means S. 1081, One Hundredth Congress, which was pocket vetoed], relating to a drug-free workplace, shall not be effective until January 16, 1989.”

CHAPTER 78—SUPERCONDUCTIVITY AND COMPETITIVENESS

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§ 5201. Findings and purposes

(a) Findings

The Congress finds that—

(1) recent discoveries of high-temperature superconducting materials could result in significant new applications of these materials in such areas as microelectronics, computers, power systems, transportation, medical imaging, and nuclear fusion, yet most potential applications may well lie beyond our ability to predict them;

(2) full application of the new superconductors is expected to require 10 to 20 years, thus calling for long-term commitments by the public and private sector to appropriate research and development programs;

(3) the Nation's economic competitiveness and strategic well-being depend greatly on the development and application of critical advanced technologies such as those anticipated to evolve from the new superconducting materials;

(4) the United States manufacturing industries confront strong competition in both domestic and world markets as other countries are increasingly taking advantage of modern technology and production techniques and innovative management focused on quality;

(5) whereas we have as a Nation been highly successful in the conduct of basic research in a variety of scientific areas, including superconductivity, other nations have been highly successful in the commercial and military application of the results of such fundamental research;

(6) if the United States is to begin its competitive advantage, it must commit sufficient long-term resources to solving processing and manufacturing problems in parallel with basic research and development;

(7) Federal agencies have responded aggressively to this exciting challenge by reprogramming funds to basic superconductivity research while informally coordinating their efforts to avoid unnecessary duplication; and further commitment of Federal funding and efforts directed to developing manufacturing, materials processing, and fabrication technologies is essential so that these activities may be conducted in parallel;

(8) successful development and application of the new superconducting materials will require close collaboration between the Federal Government and the industrial and academic components of the private sector, as well as coordinating among the Federal departments and agencies involved in research and development on superconductors;

(9) a committed Federal program effort with appropriate long-term goals, priorities, and adequate resources is necessary for the rapid development and application of the new superconducting materials; and

(10) a national program should serve as a test of new agency authorities directed at technological competitiveness such as those provided to the Department of Energy.

(b) Purposes

The purposes of this chapter are—

(1) to establish a 5-year national action plan to research and develop new high-temperature superconducting materials with appropriate goals and priorities;¹

(2) to designate the appropriate roles, mechanisms, and responsibilities of various Federal departments and agencies in implementing such a national research and development action plan.

(Pub. L. 100-697, § 2, Nov. 19, 1988, 102 Stat. 4613.)

SHORT TITLE

Pub. L. 100-697, § 1, Nov. 19, 1988, 102 Stat. 4613, provided that: “This Act [enacting this chapter] may be cited as the ‘National Superconductivity and Competitiveness Act of 1988’.”

§ 5202. National Action Plan on Advanced Superconductivity Research and Development

(a) Establishment

(1) The Director of the Office of Science and Technology Policy shall establish a 5-year National Action Plan on Advanced Superconductivity Research and Development (hereinafter in this chapter referred to as the “Superconductivity Action Plan”).

(2) The Office of Science and Technology Policy shall coordinate the development of the

¹ So in original. Probably should be followed by “and”.

Superconductivity Action Plan and any recommendations required by this chapter with the National Critical Materials Council and the National Commission on Superconductivity.

(b) Content and scope

The Superconductivity Action Plan shall include—

(1) goals and priorities for advanced superconductivity research and development to be carried out by individual departments and agencies and organizational elements therein;

(2) the assignment of responsibility for the conduct of advanced superconductivity research and development among the departments, agencies, and organization elements therein;

(3) recommendation of proposed funding levels for activities relating to superconductivity of the 5 years following November 19, 1988, for each of the participating departments, agencies, and organizational elements therein; and

(4) proposals for the participation by industry and academia in the planning and implementation of the Superconductivity Action Plan.

(c) Action Plan report

The Office of Science and Technology Policy, in conjunction with the National Critical Materials Council, shall submit a report detailing the Superconductivity Action Plan to the Committee on Science, Space, and Technology of the House of Representatives, and to the Committees on Energy and Natural Resources, and Commerce, Science, and Transportation of the Senate, within 9 months after November 19, 1988.

(d) Update reports

The Office of Science and Technology Policy, with the assistance of the National Critical Materials Council as specified in the National Critical Materials Act of 1984 (30 U.S.C. 1801 et seq.), shall prepare an annual report setting forth and evaluating the progress of the Superconductivity Action Plan. This report shall include a description of the amount of funds expended in the previous year by all Federal departments and agencies involved with superconductivity. This report shall be submitted with the President's annual budget request to the Committee on Science, Space, and Technology of the House of Representatives, and to the Committees on Energy and Natural Resources, and Commerce, Science, and Transportation of the Senate.

(Pub. L. 100-697, §3, Nov. 19, 1988, 102 Stat. 4614.)

REFERENCES IN TEXT

The National Critical Materials Act of 1984, referred to in subsec. (d), is title II of Pub. L. 98-373, July 31, 1984, 98 Stat. 1248, as amended, which is classified generally to chapter 30 (§1801 et seq.) of Title 30, Mineral Lands and Mining. For complete classification of this Act to the Code, see Short Title note set out under section 1801 of Title 30 and Tables.

§ 5203. Department of Energy

The Secretary of Energy shall conduct a program in superconductivity research and development. Within 180 days after November 19, 1988, and for the two succeeding years thereafter, the Secretary shall submit annual reports on the

implementation of technology transfer activities under the Stevenson-Wydler Technology Innovation Act of 1980 [15 U.S.C. 3701 et seq.] and related legislation with respect to superconductivity research and development to the Committee on Science, Space, and Technology of the House of Representatives and to the Committee on Energy and Natural Resources of the Senate. Such report shall include recommendations for improvements in the technology transfer between government and industry, and in the management of property developed or made at the National Laboratories.

(Pub. L. 100-697, §4, Nov. 19, 1988, 102 Stat. 4615.)

REFERENCES IN TEXT

The Stevenson-Wydler Technology Innovation Act of 1980, referred to in text, is Pub. L. 96-480, Oct. 21, 1980, 94 Stat. 2311, as amended, which is classified generally to chapter 63 (§3701 et seq.) of this title. For complete classification of this Act to the Code, see Short Title note set out under section 3701 of this title and Tables.

§ 5204. National Institute of Standards and Technology

In pursuance of the goals of this chapter, the National Institute of Standards and Technology shall promote fundamental research and materials standards to accelerate the use and application of the new superconducting materials, and shall utilize the Superconductivity Center Focusing on Electronic Applications at the National Institute of Standards and Technology in Boulder, Colorado.

(Pub. L. 100-697, §5, Nov. 19, 1988, 102 Stat. 4615.)

§ 5205. National Science Foundation

The National Science Foundation shall promote fundamental research in pursuance of the goals of this chapter.

(Pub. L. 100-697, §6, Nov. 19, 1988, 102 Stat. 4615.)

§ 5206. National Aeronautics and Space Administration

The National Aeronautics and Space Administration shall utilize existing programs in technology transfer, aeronautics and space technology, and space commercialization to promote the commercial applications of high-temperature superconductors, including applications relating to thin film technology, communications technology, sensors, space power, and propulsion.

(Pub. L. 100-697, §7, Nov. 19, 1988, 102 Stat. 4615.)

§ 5207. Department of Defense

(a) Focus of research

In conformance with the Superconductivity Action Plan, the Secretary of Defense, in the superconductivity research and development activities of the Department of Defense, shall give emphasis to fundamental research, materials processing, and applications of new superconducting materials.

(b) Additional activities

In conducting research under subsection (a), the Secretary of Defense shall—

(1) systematically define the engineering parameters for high-temperature superconducting materials; and