

§ 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-Wylder 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-Wylder 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

(2) conduct the necessary development, engineering, and operational prototype testing considered appropriate to the overall mission of the Department of Defense. Such operational prototype testing shall, where appropriate, utilize criteria developed by the Defense Advanced Research Projects Agency.

(c) Defense Advanced Research Projects Agency

The Director of the Defense Advanced Research Projects Agency shall, in conformance with the Superconductivity Action Plan, conduct activities to—

(1) augment, as appropriate, basic and applied superconductivity research conducted in other Federal agencies and industry; and

(2) develop criteria for operational prototype testing within the Department of Defense.

(Pub. L. 100-697, § 8, Nov. 19, 1988, 102 Stat. 4615.)

§ 5208. International cooperation

The President, as part of the Superconductivity Action Plan, shall establish a program of international cooperation in the conduct of fundamental and basic research on superconducting materials. Such program of international cooperation shall include the exchange of basic information and data, as well as the development of international standards for the use and application of superconducting materials.

(Pub. L. 100-697, § 9, Nov. 19, 1988, 102 Stat. 4616.)

§ 5209. Technology transfer**(a) Promotion**

In pursuance of the goals of this chapter, all Federal departments and agencies shall conduct technology transfer activities as appropriate to the overall mission of each department or agency to—

(1) complement basic superconductivity research by promoting the rapid development of manufacturing and processing technologies necessary for the commercialization of high-temperature superconductors; and

(2) promote collaborative arrangements and consortia of industry (which shall include small business) in order to lower the barriers to deployment of advanced high-temperature superconductor technology; such consortia to also include, as appropriate, universities and independent research organizations.

(b) Impediments to commercialization

The Director of the Office of Science and Technology Policy, in collaboration with the Secretary of Commerce and the Secretary of Energy, shall identify those Federal policies and regulations which impede the ability of the private sector to undertake long-term investment programs to commercialize superconductivity applications.