

**(b) Long-term missions**

The Secretary shall aggressively pursue the development and implementation of long-term missions for the Fast Flux Test Facility. Within 6 months after October 24, 1992, the Secretary shall submit to the Congress a report on the progress made in carrying out this subsection.

(Pub. L. 102-486, title XXI, §2116, Oct. 24, 1992, 106 Stat. 3075.)

**§ 13477. High-temperature superconductivity program****(a) Program**

The Secretary shall carry out a 5-year program, in accordance with sections 13541 and 13542 of this title, on high-temperature superconducting electric power equipment technologies. Elements of the program shall include, but are not limited to—

(1) activities that address the development of high-temperature superconducting materials that have increased electrical current capacity, which shall be the emphasis of the program for the near-term;

(2) the development of prototypes, where appropriate, of the major elements of a superconducting electric power system such as motors, generators, transmission lines, transformers, and magnetic energy storage systems;

(3) activities that will improve the efficiency of materials performance of higher temperatures and at all magnetic field orientations;

(4) development of prototypes based on high-temperature superconducting wire, that operate at the highest temperature possible, and refrigeration systems using cryogenics such as nitrogen;

(5) activities that will assist the private sector with designs for more efficient electric power generation and delivery systems which are cost competitive with conventional energy systems; and

(6) development of prototypes that have application in both the commercial and defense sectors.

The Secretary is also encouraged to expedite government, laboratory, industry, and university collaborative agreements under existing mechanisms at the Department of Energy in coordination with other Federal agencies.

**(b) Authorization of appropriations**

There are authorized to be appropriated to the Secretary for carrying out this section \$21,900,000 for fiscal year 1993 and such sums as may be necessary for subsequent fiscal years, to be derived from sums authorized under section 13471(c) of this title.

(Pub. L. 102-486, title XXI, §2117, Oct. 24, 1992, 106 Stat. 3075.)

**§ 13478. Electric and magnetic fields research and public information dissemination program****(a) Program**

The Secretary shall, in accordance with this section (including the agenda developed under

subsection (d)(1)(A) of this section) and within 2 months after October 24, 1992, establish a comprehensive program to—

(1) determine whether or not exposure to electric and magnetic fields produced by the generation, transmission, and use of electric energy affects human health;

(2) carry out research, development, and demonstration with respect to technologies to mitigate any adverse human health effects; and

(3) provide for dissemination of information described in subsection (b)(1) of this section to the public.

**(b) Contents**

The program shall provide for—

(1) collection, compilation, publication, and dissemination of scientifically valid information on—

(A) possible human health effects of electric and magnetic fields;

(B) the types and extent of human exposure to electric and magnetic fields in various occupational and residential settings;

(C) technologies to measure and characterize electric and magnetic fields; and

(D) methods to assess and manage exposure to electric and magnetic fields;

(2)(A) research on mechanisms by which electric and magnetic fields interact with biological systems; and

(B) epidemiological research on the possible human health effects of electric and magnetic fields; and

(3) research, development, and demonstration with respect to—

(A) technologies to improve the measurement and characterization of electric and magnetic fields; and

(B) techniques to assess and manage exposure to electric and magnetic fields.

**(c) Role of Director****(1) Role of Director**

The Secretary of Health and Human Services, acting through the Director, shall have sole responsibility under the program for research on possible human health effects of electric and magnetic fields. The Director may delegate this responsibility to the extent the Director determines appropriate.

**(2) Agreement**

Within 6 months after October 24, 1992, the Secretary shall enter into an agreement with the Secretary of Health and Human Services to carry out, through the Director, the information activities under subsection (b)(1)(A) of this section and the research under subsection (b)(2) of this section.

**(3) Actions of Director**

The actions of the Director in carrying out research and information responsibilities under this section shall not be subject to approval by the Secretary.

**(4) Transfer of funds**

The Secretary is authorized, subject to appropriations Acts, to transfer funds to the Director to carry out the Director's responsibilities under paragraph (2).