

sity 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. Omitted

Editorial Notes

CODIFICATION

Section, Pub. L. 102-486, title XXI, §2118, Oct. 24, 1992, 106 Stat. 3075; Pub. L. 105-23, §1, July 3, 1997, 111 Stat. 237, which authorized the Secretary to establish an electric and magnetic fields research and public information dissemination program, expired on Dec. 31, 1998.

§ 13479. Spark M. Matsunaga Renewable Energy and Ocean Technology Center

(a) Findings

The Congress finds that—

(1) the late Spark M. Matsunaga, United States Senator from Hawaii, was a long-standing champion of research and development of renewable energy, particularly wind and ocean energy, photovoltaics, and hydrogen fuels;

(2) it was Senator Matsunaga's vision that renewable energy could provide a sustained source of non-polluting energy and that such forms of alternative energy might ultimately be employed in the production of liquid hydrogen as a transportation fuel and energy storage medium available as an energy export;

(3) Senator Matsunaga also believed that research on other aspects of renewable energy and ocean resources, such as advanced materials, could be crucial to full development of energy storage and conversion systems; and

(4) Keahole Point, Hawaii is particularly well-suited as a site to conduct renewable energy and associated marine research.

(b) Purpose

It is the purpose of this section to establish the facilities and equipment located at Keahole Point, Hawaii as a cooperative research and development facility, to be known as the Spark M. Matsunaga Renewable Energy and Ocean Technology Center.

(c) Establishment

The facilities and equipment located at Keahole Point, Hawaii are established as the Spark M. Matsunaga Renewable Energy and Ocean Technology Center (in this section referred to as the "Center").

(d) Administration

(1) Not later than 180 days after October 24, 1992, the Secretary may authorize a cooperative agreement with a qualified research institution to administer the Center.

(2) For the purpose of paragraph (1), a qualified research institution is a research institu-

tion located in the State of Hawaii that has demonstrated competence and will be the lead organization in the State in renewable energy and ocean technologies.

(e) Activities

The Center may carry out research, development, educational, and technology transfer activities on—

(1) renewable energy;

(2) energy storage, including the production of hydrogen from renewable energy;

(3) materials applications related to energy and marine environments;

(4) other environmental and ocean research concepts, including sea ranching and global climate change; and

(5) such other matters as the Secretary may direct.

(f) Matching funds

To be eligible for Federal funds under this section, the Center must provide funding in cash or in kind from non-Federal sources for each amount provided by the Secretary.

(g) Authorization of appropriations

There is authorized to be appropriated to the Secretary for carrying out this section such sums as may be necessary, to be derived from sums authorized under section 13471(c) of this title.

(Pub. L. 102-486, title XXI, §2119, Oct. 24, 1992, 106 Stat. 3080.)

PART C—ADVANCED NUCLEAR REACTORS

§ 13491. Purposes and definitions

(a) Purposes

The purposes of this part are—

(1) to require the Secretary to carry out civilian nuclear programs in a way that will lead toward the commercial availability of advanced nuclear reactor technologies; and

(2) to authorize such activities to further the timely availability of advanced nuclear reactor technologies, including technologies that utilize standardized designs or exhibit passive safety features.

(b) Definitions

For purposes of this part—

(1) the term "advanced nuclear reactor technologies" means—

(A) advanced light water reactors that may be commercially available in the near-term, including but not limited to mid-sized reactors with passive safety features for the generation of commercial electric power from nuclear fission; and

(B) other advanced nuclear reactor technologies that may require prototype demonstration prior to commercial availability in the mid- or long-term, including but not limited to high-temperature, gas-cooled reactors and liquid metal reactors, for the generation of commercial electric power from nuclear fission;

(2) the term "Commission" means the Nuclear Regulatory Commission;

(3) the term "standardized design" means a design for a nuclear power plant that may be

utilized for a multiple number of units or a multiple number of sites; and

(4) the term “certification” means approval by the Commission of a standardized design.

(Pub. L. 102-486, title XXI, §2121, Oct. 24, 1992, 106 Stat. 3081.)

Editorial Notes

REFERENCES IN TEXT

This part, referred to in text, was in the original “this subtitle” meaning subtitle C of title XXI of Pub. L. 102-486, Oct. 24, 1992, 106 Stat. 3081, which enacted this part and amended sections 12003 and 12004 of this title.

§ 13492. Program, goals, and plan

(a) Program direction

The Secretary shall conduct a program to encourage the deployment of advanced nuclear reactor technologies that to the maximum extent practicable—

(1) are cost effective in comparison to alternative sources of commercial electric power of comparable availability and reliability, taking into consideration life cycle environmental costs;

(2) facilitate the design, licensing, construction, and operation of a nuclear powerplant using a standardized design;

(3) exhibit enhanced safety features; and

(4) incorporate features that advance the objectives of the Nuclear Non-Proliferation Act of 1978 [22 U.S.C. 3201 et seq.].

(b) Program goals

The goals of the program established under subsection (a) shall include—

(1) for the near-term—

(A) to facilitate the completion, by September 30, 1996, for certification by the Commission, of standardized advanced light water reactor technology designs that the Secretary determines have the characteristics described in subsection (a)(1) through (4);

(B) to facilitate the completion of submissions, by September 30, 1996, for preliminary design approvals by the Commission of standardized designs for the modular high-temperature gas-cooled reactor technology and the liquid metal reactor technology; and

(C) to evaluate by September 30, 1996, actinide burn technology to determine if it can reduce the volume of long-lived fission by-products;

(2) for the mid-term—

(A) to facilitate increased efficiency of enhanced safety, advanced light water reactors to produce electric power at the lowest cost to the customer;

(B) to develop advanced reactor concepts that are passively safe and environmentally acceptable; and

(C) to complete necessary research and development on high-temperature gas-cooled reactor technology and liquid metal reactor technology to support the selection, by September 30, 1998, of one or both of those technologies as appropriate for prototype demonstration; and

(3) for the long-term, to complete research and development and demonstration to support the design of advanced reactor technologies capable of providing electric power to a utility grid as soon as practicable but no later than the year 2010.

(c) Program plan

Within 180 days after October 24, 1992, the Secretary shall prepare and submit to the Congress a 5-year program plan to guide the activities under this section. The program plan shall include schedule milestones, Federal funding requirements, and non-Federal cost sharing requirements. In preparing the program plan, the Secretary shall take into consideration—

(1) the need for, and the potential for future adoption by electric utilities or other entities of, advanced nuclear reactor technologies that are available, under development, or have the potential for being developed, for the generation of energy from nuclear fission;

(2) how the Federal Government, acting through the Secretary, can be effective in ensuring the availability of such technologies when they are needed;

(3) how the Federal Government can most effectively cooperate with the private sector in the accomplishment of the goals set forth in subsection (b); and

(4) potential alternative funding sources for carrying out this section.

In preparing the program plan, the Secretary shall consult with appropriate representatives of industry, institutions of higher education, Federal agencies, including national laboratories, and professional and technical societies. The Secretary shall update the program plan annually and submit such update to Congress. Each such update shall describe any activities that are behind schedule, any funding shortfalls, and any other circumstances that might affect the ability of the Secretary to meet the goals set forth in subsection (b).

(Pub. L. 102-486, title XXI, §2122, Oct. 24, 1992, 106 Stat. 3082.)

Editorial Notes

REFERENCES IN TEXT

The Nuclear Non-Proliferation Act of 1978, referred to in subsec. (a)(4), is Pub. L. 95-242, Mar. 10, 1978, 92 Stat. 120, which is classified principally to chapter 47 (§3201 et seq.) of Title 22, Foreign Relations and Intercourse. For complete classification of this Act to the Code, see Short Title note set out under section 3201 of Title 22 and Tables.

§ 13493. Commercialization of advanced light water reactor technology

(a) Certification of designs

In order to achieve the goal of certification of completed standardized designs by the Commission by 1996 as set forth in section 13492(b) of this title, the Secretary shall conduct a 5-year program of technical and financial assistance to encourage the development and submission for certification of advanced light water reactor designs which, in the judgment of the Secretary, can be certified by the Commission by no later than the end of fiscal year 1996.