Editorial Notes

REFERENCES IN TEXT

This part, referred to in subsec. (d), was in the original ''this subtitle'', meaning subtitle G (§§ 971–984A) of title IX of Pub. L. 109–58, Aug. 8, 2005, 119 Stat. 898, which enacted this part and amended section 5523 of Title 15, Commerce and Trade. For complete classification of subtitle G to the Code, see Tables.

AMENDMENTS

2022—Subsec. (f). Pub. L. 117–167 added subsec. (f) and struck out former subsec. (f) which related to establishment of at least 7 bioenergy research centers to carry out the program under subsec. (a) of this section.

2007—Subsec. (a)(1). Pub. L. 110–140, § 232(a)(1), substituted ''computational biology, and environmental science'' for ''and computational biology''.

Subsec. (b)(1). Pub. L. 110–140, § 232(a)(2)(A), inserted ''in sustainable production systems that reduce greenhouse gas emissions'' after ''hydrogen''.

Subsec. (b)(4), (5). Pub. L. 110–140, § 232(a)(2)(B)–(D), added par. (4) and redesignated former par. (4) as (5).

Subsec. (f). Pub. L. 110–140, § 233, added subsec. (f).

Statutory Notes and Related Subsidiaries

EFFECTIVE DATE OF 2007 AMENDMENT

Amendment by Pub. L. 110–140 effective on the date that is 1 day after Dec. 19, 2007, see section 1601 of Pub. L. 110–140, set out as an Effective Date note under section 1824 of Title 2, The Congress.

§ 16318. Fission and fusion energy materials research program

(a) In general

Along with the budget request of the President submitted to Congress for fiscal year 2007, the Secretary shall establish a research and development program on material science issues presented by advanced fission reactors and the fusion energy program of the Department.

(b) Administration

In carrying out the program, the Secretary shall develop—

(1) a catalog of material properties required for applications described in subsection (a);

(2) theoretical models for materials possessing the required properties;

(3) benchmark models against existing data; and

(4) a roadmap to guide further research and development in the area covered by the program.

(Pub. L. 109–58, title IX, § 978, Aug. 8, 2005, 119 Stat. 904.)

§ 16319. Energy and water supplies

(a) In general

The Secretary shall carry out a program of research, development, demonstration, and commercial application to—

(1) address energy-related issues associated with provision of adequate water supplies, optimal management, and efficient use of water;

(2) address water-related issues associated with the provision of adequate supplies, optimal management, and efficient use of energy; and

(3) assess the effectiveness of existing programs within the Department and other Federal agencies to address these energy and water related issues.

(b) Program elements

The program under this section shall include—

(1) arsenic treatment;

(2) desalination; and

(3) planning, analysis, and modeling of energy and water supply and demand.

(c) Collaboration

In carrying out this section, the Secretary shall consult with the Administrator of the Environmental Protection Agency, the Secretary of the Interior, the Chief Engineer of the Army Corps of Engineers, the Secretary of Commerce, the Secretary of Defense, and other Federal agencies as appropriate.

(d) Facilities

The Secretary may utilize all existing facilities within the Department and may design and construct additional facilities as needed to carry out the purposes of this program.

(e) Advisory committee

The Secretary shall establish or utilize an advisory committee to provide independent advice and review of the program.

(f) Reports

Not later than 2 years after August 8, 2005, the Secretary shall submit to Congress a report on the assessment described in subsection (b) and recommendations for future actions.

(Pub. L. 109–58, title IX, § 979, Aug. 8, 2005, 119 Stat. 905.)

§ 16320. Spallation Neutron Source

(a) Definitions

In this section:

(1) SING

The term ''SING'' means the Spallation Neutron Source Instruments Next Generation major item of equipment.

(2) SNS power upgrade

The term ''SNS power upgrade'' means the Spallation Neutron Source power upgrade described in the 20-year facilities plan of the Office of Science of the Department.

(3) SNS second target station

The term ''SNS second target station'' means the Spallation Neutron Source second target station described in the 20-year facilities plan of the Office of Science of the Department.

(4) Spallation Neutron Source Facility

The terms ''Spallation Neutron Source Facility'' and ''Facility'' mean the completed Spallation Neutron Source scientific user facility located at Oak Ridge National Laboratory, Oak Ridge, Tennessee.

(5) Spallation Neutron Source Project

The terms ''Spallation Neutron Source Project'' and ''Project'' means Department Project 99–E–334, Oak Ridge National Laboratory, Oak Ridge, Tennessee.

(b) Spallation Neutron Source Project

(1) In general

The Secretary shall submit to Congress, as part of the annual budget request of the Presi-