

**§ 16357. Strategy and plan for science and energy facilities and infrastructure**

**(a) Facility and infrastructure policy**

**(1) In general**

The Secretary shall develop and implement a strategy for facilities and infrastructure supported primarily from the Office of Science, the Office of Energy Efficiency and Renewable Energy, the Office of Fossil Energy, or the Office of Nuclear Energy, Science and Technology Programs at all National Laboratories and single-purpose research facilities.

**(2) Strategy**

The strategy shall provide cost-effective means for—

- (A) maintaining existing facilities and infrastructure;
- (B) closing unneeded facilities;
- (C) making facility modifications; and
- (D) building new facilities.

**(b) Report**

**(1) In general**

The Secretary shall prepare and submit, along with the budget request of the President submitted to Congress for fiscal year 2008, a report describing the strategy developed under subsection (a).

**(2) Contents**

For each National Laboratory and single-purpose research facility that is primarily used for science and energy research, the report shall contain—

- (A) the current priority list of proposed facilities and infrastructure projects, including cost and schedule requirements;
- (B) a current 10-year plan that demonstrates the reconfiguration of its facilities and infrastructure to meet its missions and to address its long-term operational costs and return on investment;
- (C) the total current budget for all facilities and infrastructure funding; and
- (D) the current status of each facility and infrastructure project compared to the original baseline cost, schedule, and scope.

(Pub. L. 109–58, title IX, §993, Aug. 8, 2005, 119 Stat. 913.)

**§ 16358. Strategic research portfolio analysis and coordination plan**

**(a) In general**

The Secretary shall periodically review all of the science and technology activities of the Department in a strategic framework that takes into account both the frontiers of science to which the Department can contribute and the national needs relevant to the Department's statutory missions.

**(b) Coordination analysis and plan**

As part of the review under subsection (a), the Secretary shall develop a coordination plan to improve coordination and collaboration in research, development, demonstration, and commercial application activities across Department organizational boundaries.

**(c) Plan contents**

The plan shall describe—

(1) cross-cutting scientific and technical issues and research questions that span more than one program or major office of the Department;

(2) how the applied technology programs of the Department are coordinating their activities, and addressing those questions;

(3) ways in which the technical interchange within the Department, particularly between the Office of Science and the applied technology programs, can be enhanced, including ways in which the research agendas of the Office of Science and the applied programs can interact and assist each other;

(4) a description of how the Secretary will ensure that the Department's overall research agenda include, in addition to fundamental, curiosity-driven research, fundamental research related to topics of concern to the applied programs, and applications in Departmental technology programs of research results generated by fundamental, curiosity-driven research.

**(d) Plan transmittal**

Not later than 12 months after August 8, 2005, and every 4 years thereafter, the Secretary shall transmit to Congress the results of the review under subsection (a) and the coordination plan under subsection (b).

(Pub. L. 109–58, title IX, §994, Aug. 8, 2005, 119 Stat. 914.)

**§ 16359. Competitive award of management contracts**

None of the funds authorized to be appropriated to the Secretary by this subchapter may be used to award a management and operating contract for a National Laboratory (excluding those named in subparagraphs (G), (H), (N), and (O) of section 15801(3) of this title), unless such contract is competitively awarded, or the Secretary grants, on a case-by-case basis, a waiver. The Secretary may not delegate the authority to grant such a waiver and shall submit to Congress a report notifying it of the waiver, and setting forth the reasons for the waiver, at least 60 days prior to the date of the award of such contract.

(Pub. L. 109–58, title IX, §995, Aug. 8, 2005, 119 Stat. 914.)

REFERENCES IN TEXT

This subchapter, referred to in text, was in the original “this title”, meaning title IX of Pub. L. 109–58, Aug. 8, 2005, 119 Stat. 856, which enacted this subchapter, amended sections 8101 and 8102 of Title 7, Agriculture, and section 5523 of Title 15, Commerce and Trade, enacted provisions set out as notes under section 15801 of this title, section 8102 of Title 7, and section 2001 of Title 30, Mineral Lands and Mining, and amended provisions set out as notes under section 8101 of Title 7 and section 1902 of Title 30. For complete classification of title IX to the Code, see Short Title note set out under section 15801 of this title and Tables.

**§ 16360. Western Michigan demonstration project**

The Administrator of the Environmental Protection Agency, in consultation with the State

of Michigan and affected local officials, shall conduct a demonstration project to address the effect of transported ozone and ozone precursors in Southwestern Michigan. The demonstration program shall address projected nonattainment areas in Southwestern Michigan that include counties with design values for ozone of less than .095 based on years 2000 to 2002 or the most current 3-year period of air quality data. The Administrator shall assess any difficulties such areas may experience in meeting the 8-hour national ambient air quality standard for ozone due to the effect of transported ozone or ozone precursors into the areas. The Administrator shall work with State and local officials to determine the extent of ozone and ozone precursor transport, to assess alternatives to achieve compliance with the 8-hour standard apart from local controls, and to determine the timeframe in which such compliance could take place. The Administrator shall complete this demonstration project no later than 2 years after August 8, 2005, and shall not impose any requirement or sanction under the Clean Air Act (42 U.S.C. 7401 et seq.) that might otherwise apply during the pendency of the demonstration project.

(Pub. L. 109-58, title IX, §996, Aug. 8, 2005, 119 Stat. 915.)

#### REFERENCES IN TEXT

The Clean Air Act, referred to in text, is act July 14, 1955, ch. 360, 69 Stat. 322, as amended, which is classified generally to chapter 85 (§7401 et seq.) of this title. For complete classification of this Act to the Code, see Short Title note set out under section 7401 of this title and Tables.

### § 16361. Arctic Engineering Research Center

#### (a) In general

The Secretary of Transportation, in consultation with the Secretary and the United States Arctic Research Commission, shall provide annual grants to a university located adjacent to the Arctic Energy Office of the Department of Energy, to establish and operate a university research center to be headquartered in Fairbanks and to be known as the "Arctic Engineering Research Center" (referred to in this section as the "Center").

#### (b) Purpose

The purpose of the Center shall be to conduct research on, and develop improved methods of, construction and use of materials to improve the overall performance of roads, bridges, residential, commercial, and industrial structures, and other infrastructure in the Arctic region, with an emphasis on developing—

(1) new construction techniques for roads, bridges, rail, and related transportation infrastructure and residential, commercial, and industrial infrastructure that are capable of withstanding the Arctic environment and using limited energy resources as efficiently as practicable;

(2) technologies and procedures for increasing road, bridge, rail, and related transportation infrastructure and residential, commercial, and industrial infrastructure safety, reliability, and integrity in the Arctic region;

(3) new materials and improving the performance and energy efficiency of existing ma-

terials for the construction of roads, bridges, rail, and related transportation infrastructure and residential, commercial, and industrial infrastructure in the Arctic region; and

(4) recommendations for new local, regional, and State permitting and building codes to ensure transportation and building safety and efficient energy use when constructing, using, and occupying such infrastructure in the Arctic region.

#### (c) Objectives

The Center shall carry out—

(1) basic and applied research in the subjects described in subsection (b), the products of which shall be judged by peers or other experts in the field to advance the body of knowledge in road, bridge, rail, and infrastructure engineering in the Arctic region; and

(2) an ongoing program of technology transfer that makes research results available to potential users in a form that can be implemented.

#### (d) Amount of grant

For each of fiscal years 2006 through 2011, the Secretary shall provide a grant in the amount of \$3,000,000 to the institution specified in subsection (a) to carry out this section.

#### (e) Authorization of appropriations

There are authorized to be appropriated to carry out this section \$3,000,000 for each of fiscal years 2006 through 2011.

(Pub. L. 109-58, title IX, §997, Aug. 8, 2005, 119 Stat. 915.)

### § 16362. Barrow Geophysical Research Facility

#### (a) Establishment

The Secretary of Commerce, in consultation with the Secretaries of Energy and the Interior, the Director of the National Science Foundation, and the Administrator of the Environmental Protection Agency, shall establish a joint research facility in Barrow, Alaska, to be known as the "Barrow Geophysical Research Facility", to support scientific research activities in the Arctic.

#### (b) Authorization of appropriations

There are authorized to be appropriated to the Secretaries of Commerce, Energy, and the Interior, the Director of the National Science Foundation, and the Administrator of the Environmental Protection Agency for the planning, design, construction, and support of the Barrow Geophysical Research Facility, \$61,000,000.

(Pub. L. 109-58, title IX, §998, Aug. 8, 2005, 119 Stat. 916.)

## PART J—ULTRA-DEEPWATER AND UNCONVENTIONAL NATURAL GAS AND OTHER PETROLEUM RESOURCES

### § 16371. Program authority

#### (a) In general

The Secretary shall carry out a program under this part of research, development, demonstration, and commercial application of technologies for ultra-deepwater and unconventional