

low-income students and provide training and other services to educators.

**(h) Authorization of appropriations**

There are authorized to be appropriated such sums as may be necessary, to be derived from section 13503(e) of this title and the Environmental Restoration and Waste Management program, to carry out the purposes of this section.

(Pub. L. 102-486, title XXII, §2204, Oct. 24, 1992, 106 Stat. 3089.)

REFERENCES IN TEXT

Sections 1070d through 1070d-1d of title 20, referred to in subsec. (a), and section 1070d of title 20, referred to in subsec. (b)(1), were repealed by Pub. L. 102-325, title IV, §402(a)(1), July 23, 1992, 106 Stat. 482.

**§ 13505. Integration of research and development**

Within 180 days after October 24, 1992, the Secretary, in consultation with appropriate representatives of industry, institutions of higher education, Department of Energy national laboratories, and professional and technical societies, shall prepare and submit to Congress a 5-year program plan for improving the integration of basic energy research programs with other energy programs within the Department of Energy. Such program plan shall include—

- (1) an evaluation of current procedures and mechanisms used to achieve such integration;
- (2) an assessment of the role that the Department of Energy national laboratories play in such integration;
- (3) an identification and evaluation of models that could enhance such integration;
- (4) an identification and evaluation of new programs, mechanisms, and related policy options that could improve the integrating process, including—
  - (A) set aside funding for matching or leveraging basic and applied programs;
  - (B) more formal linkages; and
  - (C) program coordination;
- (5) recommendations for expanded research and development and new technology areas; and
- (6) budget estimates for activities under this section.

(Pub. L. 102-486, title XXII, §2205, Oct. 24, 1992, 106 Stat. 3091.)

**§ 13506. Definitions**

For purposes of this subchapter—

- (1) the term “advanced manufacturing technology” means processes, equipment, techniques, practices, and capabilities that are applied for the purpose of—
  - (A) improving the productivity, quality, or energy efficiency of the design, development, testing, or manufacture of a product; or
  - (B) expanding the technical capability to design, develop, test, or manufacture a product that is fundamentally different in character from existing products and that will result in improved energy efficiency;
- (2) the term “advanced materials” means materials that are processed, synthesized, fab-

ricated, and manufactured to develop high performance properties that exceed the corresponding properties of conventional materials for structural, electronic, magnetic, or photonic applications, or for joining, welding, bonding, or packaging components into complex assemblies, including—

(A) advanced monolithic materials such as metals, ceramics, and polymers;

(B) advanced composite materials such as metal matrix (including intermetallics), polymer matrix, ceramic matrix, continuous fiber ceramic composite, and carbon matrix composites; and

(C) advanced electronic, magnetic, and photonic materials, including superconducting, semiconductor, electrooptic, magneto optic, thin-film, and special purpose coating materials used in technologies for energy efficiency, renewable energy, or electric power applications; and

(3) the term “United States” means the 50 States of the United States, the District of Columbia, the Commonwealth of Puerto Rico, the United States Virgin Islands, Guam, the Northern Mariana Islands, and any other territory or possession of the United States.

(Pub. L. 102-486, title XXII, §2206, Oct. 24, 1992, 106 Stat. 3091.)

SUBCHAPTER XI—POLICY AND ADMINISTRATIVE PROVISIONS

**§ 13521. Policy on major construction projects**

**(a) Report and management plan**

The Secretary shall submit to the Congress a report and management plan for any major construction project involving \$100,000,000 or more, prior to the expenditure of those funds.

**(b) Congressional review**

Expenditure of funds for a project described in subsection (a) may be made after a period of 30 calendar days (not including any day on which either House of Congress is not in session because of adjournment of more than 3 calendar days prior to a day certain) has passed after receipt of the report and management plan by Congress.

(Pub. L. 102-486, title XXIII, §2301, Oct. 24, 1992, 106 Stat. 3092.)

**§ 13522. Energy Research, Development, Demonstration, and Commercial Application Advisory Board**

**(a) Establishment**

The Secretary shall establish an Energy Research, Development, Demonstration, and Commercial Application Advisory Board (hereafter in this section referred to as the “Advisory Board”).

**(b) Responsibilities**

The Advisory Board shall provide impartial technical advice to the Secretary to assist in the development of energy research, development, demonstration, and commercial application plans and reports under sections 5905 and 5914<sup>1</sup> of this title, under section 7321 of this title,

<sup>1</sup> See References in Text note below.