

(2) Interim final rulemaking

Not later than 270 days after August 8, 2005, the Secretary shall issue for public comment an interim final rule regulating contracts authorized by this section.

(3) Notice of final rulemaking

Not later than 1 year after August 8, 2005, the Secretary shall issue a notice of final rulemaking regulating the contracts.

(h) Authorization of appropriations

There are authorized to be appropriated such sums as are necessary to carry out this section. (Pub. L. 109–58, title VI, §638, Aug. 8, 2005, 119 Stat. 791.)

PART B—NEXT GENERATION NUCLEAR PLANT
PROJECT

§ 16021. Project establishment**(a) Establishment**

The Secretary shall establish a project to be known as the “Next Generation Nuclear Plant Project” (referred to in this part as the “Project”).

(b) Content

The Project shall consist of the research, development, design, construction, and operation of a prototype plant, including a nuclear reactor that—

(1) is based on research and development activities supported by the Generation IV Nuclear Energy Systems Initiative under section 16272(c)¹ of this title; and

(2) shall be used—

(A) to generate electricity;

(B) to produce hydrogen; or

(C) both to generate electricity and to produce hydrogen.

(Pub. L. 109–58, title VI, §641, Aug. 8, 2005, 119 Stat. 794; Pub. L. 115–248, §2(b)(2), Sept. 28, 2018, 132 Stat. 3155.)

Editorial Notes

REFERENCES IN TEXT

Section 16272 of this title, referred to in subsec. (b)(1), was amended generally by Pub. L. 116–260, div. Z, title II, §2003(a), Dec. 27, 2020, 134 Stat. 2459 and, as amended, section 16272(c) of this title no longer refers to the Generation IV Nuclear Energy Systems Initiative.

AMENDMENTS

2018—Pub. L. 115–248 substituted “section 16272(c)” for “section 16272(d)”, which had been an editorial translation of a reference in original text to section 942(d) of Pub. L. 109–58.

§ 16022. Project management**(a) Departmental management****(1) In general**

The Project shall be managed in the Department by the Office of Nuclear Energy, Science, and Technology.

(2) Generation IV Nuclear Energy Systems program

The Secretary may combine the Project with the Generation IV Nuclear Energy Systems Initiative.

(3) Existing DOE project management expertise

The Secretary may utilize capabilities for review of construction projects for advanced scientific facilities within the Office of Science to track the progress of the Project.

(b) Laboratory management**(1) Lead Laboratory**

The Idaho National Laboratory shall be the lead National Laboratory for the Project and shall collaborate with other National Laboratories, institutions of higher education, other research institutes, industrial researchers, and international researchers to carry out the Project.

(2) Industrial partnerships**(A) In general**

The Idaho National Laboratory shall organize a consortium of appropriate industrial partners that will carry out cost-shared research, development, design, and construction activities, and operate research facilities, on behalf of the Project.

(B) Cost-sharing

Activities of industrial partners funded by the Project shall be cost-shared in accordance with section 16352 of this title.

(C) Preference

Preference in determining the final structure of the consortium or any partnerships under this part shall be given to a structure (including designating as a lead industrial partner an entity incorporated in the United States) that retains United States technological leadership in the Project while maximizing cost sharing opportunities and minimizing Federal funding responsibilities.

(3) Prototype plant siting

The prototype nuclear reactor and associated plant shall be sited at the Idaho National Laboratory in Idaho.

(4) Reactor test capabilities

The Project shall use, if appropriate, reactor test capabilities at the Idaho National Laboratory.

(5) Other Laboratory capabilities

The Project may use, if appropriate, facilities at other National Laboratories.

(Pub. L. 109–58, title VI, §642, Aug. 8, 2005, 119 Stat. 795.)

§ 16023. Project organization**(a) Major project elements**

The Project shall consist of the following major program elements:

(1) High-temperature hydrogen production technology development and validation.

(2) Energy conversion technology development and validation.

(3) Nuclear fuel development, characterization, and qualification.

(4) Materials selection, development, testing, and qualification.

(5) Reactor and balance-of-plant design, engineering, safety analysis, and qualification.

¹ See References in Text note below.