

111TH CONGRESS
2D SESSION

H. R. 5164

To amend the Energy Policy Act of 2005 to require the Secretary of Energy to carry out programs to develop and demonstrate 2 small modular nuclear reactor designs, and for other purposes.

IN THE HOUSE OF REPRESENTATIVES

APRIL 28, 2010

Mr. ALTMIRE (for himself, Mr. BARTON of Texas, Mr. FOSTER, Mr. UPTON, Mr. ROSS, Mrs. MYRICK, Mr. MELANCON, Mr. ROGERS of Michigan, Mr. MCMAHON, Mr. BARTLETT, Mr. MURPHY of New York, Mrs. BIGGERT, Mr. PERRIELLO, Mr. SHIMKUS, Mr. MURPHY of Connecticut, Mrs. BONO MACK, Mr. SALAZAR, Mr. GRIFFITH, and Mrs. HALVORSON) introduced the following bill; which was referred to the Committee on Energy and Commerce, and in addition to the Committee on Science and Technology, for a period to be subsequently determined by the Speaker, in each case for consideration of such provisions as fall within the jurisdiction of the committee concerned

A BILL

To amend the Energy Policy Act of 2005 to require the Secretary of Energy to carry out programs to develop and demonstrate 2 small modular nuclear reactor designs, and for other purposes.

1 *Be it enacted by the Senate and House of Representa-*
2 *tives of the United States of America in Congress assembled,*

1 **SECTION 1. SHORT TITLE.**

2 This Act may be cited as the “Nuclear Power 2021
3 Act”.

4 **SEC. 2. NUCLEAR POWER 2021 INITIATIVE.**

5 Section 952 of the Energy Policy Act of 2005 (42
6 U.S.C. 16272) is amended by adding at the end the fol-
7 lowing:

8 “(f) NUCLEAR POWER 2021 INITIATIVE.—

9 “(1) DEFINITIONS.—In this subsection:

10 “(A) COMBINED LICENSE.—The term
11 ‘combined license’ has the meaning given the
12 term in section 52.1 of title 10, Code of Federal
13 Regulations (or a successor regulation).

14 “(B) DESIGN CERTIFICATION.—The term
15 ‘design certification’ has the meaning given the
16 term in section 52.1 of title 10, Code of Federal
17 Regulations (or a successor regulation).

18 “(C) SMALL MODULAR REACTOR.—The
19 term ‘small modular reactor’ means a nuclear
20 reactor—

21 “(i) with a rated capacity of less than
22 300 electrical megawatts; and

23 “(ii) that can be constructed and op-
24 erated in combination with similar reactors
25 at a single site.

1 “(2) DUTY OF SECRETARY.—The Secretary
2 shall carry out, through cooperative agreements with
3 private sector partners—

4 “(A) a program—

5 “(i) to develop a standard design for
6 each of 2 small modular reactors, at least
7 1 of which has a rated capacity of not
8 more than 50 electrical megawatts; and

9 “(ii) to obtain a design certification
10 from the Nuclear Regulatory Commission
11 for each of the 2 standard designs by Jan-
12 uary 1, 2018; and

13 “(B) a program to demonstrate the licens-
14 ing of small modular reactors by—

15 “(i) developing applications for a com-
16 bined license for each of the designs cer-
17 tified pursuant to subparagraph (A); and

18 “(ii) obtaining a combined license
19 from the Nuclear Regulatory Commission
20 for each of the designs by January 1,
21 2021.

22 “(3) MERIT REVIEW OF PROPOSALS.—The Sec-
23 retary shall select proposals for cooperative agree-
24 ments under this subsection—

1 “(A) on the basis of an impartial review of
2 the scientific and technical merit of the pro-
3 posals; and

4 “(B) through the use of competitive proce-
5 dures.

6 “(4) TECHNICAL CONSIDERATIONS.—In evalu-
7 ating proposals, the Secretary shall take into ac-
8 count the efficiency, cost, safety, and proliferation
9 resistance of competing reactor designs.

10 “(5) COST-SHARE REQUIREMENTS.—

11 “(A) DESIGN DEVELOPMENT.—Notwith-
12 standing section 988, the Secretary shall re-
13 quire that not less than 50 percent of the cost
14 of the development of each small modular reac-
15 tor design under paragraph (2)(A) be provided
16 by a non-Federal source.

17 “(B) LICENSING DEMONSTRATION.—Not-
18 withstanding section 988, the Secretary shall
19 require that not less than 75 percent of the cost
20 of the licensing demonstration of each small
21 modular reactor design under paragraph (2)(B)
22 be provided by a non-Federal source.

23 “(C) CALCULATION OF AMOUNT.—Non-
24 Federal contributions under this subsection

1 shall be calculated in accordance with section
2 988(d).”.

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