

114TH CONGRESS
1ST SESSION

S. _____

To require the Secretary of Energy to submit to Congress a report assessing the capability of the Department of Energy to authorize, host, and oversee privately funded fusion and fission reactor prototypes and related demonstration facilities at sites owned by the Department of Energy.

IN THE SENATE OF THE UNITED STATES

Mr. CRAPO introduced the following bill; which was read twice and referred to the Committee on _____

A BILL

To require the Secretary of Energy to submit to Congress a report assessing the capability of the Department of Energy to authorize, host, and oversee privately funded fusion and fission reactor prototypes and related demonstration facilities at sites owned by the Department of Energy.

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

3 **SECTION 1. REPORT REQUIRED.**

4 (a) IN GENERAL.—Not later than 180 days after the
5 date of enactment of this Act, the Secretary of Energy,
6 in consultation with the National Laboratories, relevant

1 Federal agencies, and other stakeholders, shall submit to
2 the Committees on Energy and Natural Resources and
3 Environment and Public Works of the Senate and the
4 Committee on Science, Space, and Technology of the
5 House of Representatives a report assessing the capability
6 of the Department of Energy (referred to in this section
7 as the “Department”) to authorize, host, and oversee pri-
8 vately funded fusion and fission reactor prototypes up to
9 20 megawatts thermal output and related demonstration
10 facilities at sites owned by the Department.

11 (b) CONTENT.—The report submitted under sub-
12 section (a) shall describe the results of an assessment of—

13 (1) the safety review and oversight capabilities
14 of the Department;

15 (2) potential sites capable of hosting research,
16 development, and demonstration of prototype reac-
17 tors and related facilities for the purpose of reducing
18 technical risk;

19 (3) the existing physical and technical capabili-
20 ties of the Department and the National Labora-
21 tories relevant to research, development, and over-
22 sight;

23 (4) the efficacy of the available contractual
24 mechanisms of the Department, including—

- 1 (A) cooperative research and development
2 agreements;
- 3 (B) work for others agreements; and
- 4 (C) agreements for commercializing tech-
5 nology;
- 6 (5) potential cost structures relating to physical
7 security, decommissioning, liability, and other long-
8 term project costs; and
- 9 (6) other challenges or considerations identified
10 by the Secretary of Energy, including issues relating
11 to potential cases of demonstration reactors up to 2
12 gigawatts of thermal output.