AMENDMENT TO H.R. 6544

OFFERED BY MRS. TRAHAN OF MASSACHUSETTS

At the end of section 102, add the following subsection:

(e) FUSION MACHINES.—

(1) DEFINITION.—Section 11 of the Atomic Energy Act of 1954 (42 U.S.C. 2014) is amended by adding at the end the following:

''kk. FUSION MACHINE.—The term 'fusion machine' means a particle accelerator that is capable of—

''(1) transforming atomic nuclei, through fusion processes, into other elements, isotopes, or particles; and

''(2) directly capturing and using the resultant products, including particles, heat, and other electromagnetic radiation.''.

(2) TECHNOLOGY-INCLUSIVE REGULATORY FRAMEWORK.—

(A) IN GENERAL.—Section 103(a) of the Nuclear Energy Innovation and Modernization Act (42 U.S.C. 2133 note) is further amended—

(i) in paragraph (4), by adding at the end the following:

''(C) FUSION MACHINE APPLICANTS.—Not later than December 31, 2027, the Commission shall complete a rulemaking to establish a technology-inclusive, regulatory framework for optional use by fusion machine applicants for new license applications.''; and

(ii) in paragraph (5)(B)(ii), by inserting ''and fusion machine license applications'' after ''commercial advanced nuclear reactor license applications''.

(B) DEFINITIONS.—Section 3 of the Nuclear Energy Innovation and Modernization Act (42 U.S.C. 2215 note) is amended by adding at the end the following:

''(21) FUSION MACHINE.—The term 'fusion machine' has the meaning given such term in subsection kk. of section 11 of the Atomic Energy Act of 1954.''.

(3) REPORT.—Not later than 1 year after the date of enactment of this Act, the Nuclear Regulatory Commission shall submit to Congress a report on—

(A) the results of a study, conducted in consultation with Agreement States (as defined in section 3 of the Nuclear Energy Innovation and Modernization Act (42 U.S.C. 2215 note) and the private fusion sector, on risk- and performance-based, design-specific licensing frameworks for mass-manufactured fusion machines (as defined in subsection kk. of section 11 of the Atomic Energy Act of 1954, as added by this subsection), that includes evaluation of the Federal Aviation Administration's design, manufacturing, and operations certification process for aircraft as a potential model for mass-manufactured fusion machine regulations; and

(B) the estimated timeline for the Commission to issue consolidated guidance or regulations for licensing mass-manufactured fusion machines, taking into account the results of such study and the anticipated need for such guidance or regulations.

Page 54, line 24, strike ''103(a)(4)'' and insert ''103(a)(4)(A)''.

Page 79, line 5, strike ''103(a)(4)'' and insert ''103(a)(4)(A)''.

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