AMENDMENT TO RULES COMMITTEE PRINT 118-10

OFFERED BY MR. DONALDS OF FLORIDA

At the end of subtitle A of title XVI, add the following new section:

SEC. 16. STUDY ON USE AND BENEFITS OF ADVANCED NUCLEAR REACTORS ON THE MOON AND MARS.

(a) STUDY.—The Secretary of Defense, in consultation with the Administrator of the National Aeronautics and Space Administration, shall conduct a study on the potential uses and benefits of advanced nuclear reactors on the moon and Mars.

(b) REPORT.—Not later than 180 days after the date of the enactment of this Act, the Secretary of Defense shall submit to the Committees on Armed Services of the Senate and the House of Representatives a report on the results of the study conducted under subsection (a).

(c) ADVANCE NUCLEAR REACTOR DEFINED.—In this section, the term “advanced nuclear reactor” means—

(1) a nuclear fission reactor, including a prototype plant (as defined in sections 50.2 and 52.1 of title 10, Code of Federal Regulations (or successor
regulations)), with significant improvements compared to reactors operating on October 19, 2016, including improvements such as—

(A) additional inherent safety features;

(B) lower waste yields;

(C) improved fuel and material performance;

(D) increased tolerance to loss of fuel cooling;

(E) enhanced reliability or improved resilience;

(F) increased proliferation resistance;

(G) increased thermal efficiency;

(H) reduced consumption of cooling water and other environmental impacts;

(I) the ability to integrate into electric applications and nonelectric applications;

(J) modular sizes to allow for deployment that corresponds with the demand for electricity or process heat; and

(K) operational flexibility to respond to changes in demand for electricity or process heat and to complement integration with intermittent renewable energy or energy storage;

(2) a fusion reactor; and
(3) a radioisotope power system that utilizes heat from radioactive decay to generate energy.