

AMENDMENT TO RULES COMMITTEE PRINT 116-

19

OFFERED BY MR. PANETTA OF CALIFORNIA

At the end of subtitle B of title II, add the following
new section:

1 **SEC. 2___ . MODIFICATION OF DEFENSE QUANTUM INFOR-**
2 **MATION SCIENCE AND TECHNOLOGY RE-**
3 **SEARCH AND DEVELOPMENT PROGRAM.**

4 Section 234 of the John S. McCain National Defense
5 Authorization Act for Fiscal Year 2019 (Public Law 115–
6 232; 10 U.S.C. 2358 note) is amended—

7 (1) in subsection (c)—

8 (A) in paragraph (2), by striking the semi-
9 colon at the end and inserting “, including
10 through coordination with—

11 “(A) the National Quantum Coordination
12 Office;

13 “(B) the subcommittee on Quantum Infor-
14 mation Science and the subcommittee on Eco-
15 nomic and Security Implications of Quantum
16 Science of the National Science and Technology
17 Council;

1 “(C) the Quantum Economic Development
2 Consortium;

3 “(D) the Under Secretary of Defense for
4 Acquisition and Sustainment

5 “(E) the Industrial Policy office of the De-
6 partment of Defense;

7 “(F) industry;

8 “(G) academic institutions; and

9 “(H) national laboratories;”;

10 (B) by redesignating paragraphs (3) and
11 (4) as paragraphs (5) and (8), respectively;

12 (C) by inserting after paragraph (2) the
13 following new paragraphs:

14 “(3) develop, in coordination with the entities
15 listed in paragraph (2), plans for workforce develop-
16 ment, enhancing awareness and reducing risk of
17 cybersecurity threats, and the development of ethical
18 guidelines for the use of quantum technology;

19 “(4) develop, in coordination with the National
20 Institute of Standards and Technology, a quantum
21 science taxonomy and requirements for technology
22 and standards;”;

23 (D) in paragraph (5) (as so redesignated),
24 by striking “and” at the end;

1 (E) by inserting after paragraph (5) (as so
2 redesignated) the following new paragraphs:

3 “(6) support efforts to increase the technology
4 readiness level of quantum technologies under devel-
5 opment in the United States;

6 “(7) coordinate quantum technology initiatives
7 with allies of the United States, including by coordi-
8 nating with allies through The Technical Coopera-
9 tion Program; and”;

10 (F) in paragraph (8) (as so redesignated),
11 by striking “meeting the long-term challenges
12 and achieving the specific technical goals” and
13 inserting “carrying out the program required by
14 subsection (a)”;

15 (2) in subsection (d)—

16 (A) by redesignating subparagraphs (C)
17 through (E) as subparagraphs (E) through (G),
18 respectively; and

19 (B) by inserting after subparagraph (B)
20 the following new subparagraphs:

21 “(C) A quantum technology roadmap indi-
22 cating the likely timeframes for development
23 and military deployment of quantum tech-
24 nologies, and likely relative national security
25 impact of such technologies.

1 “(D) A description of efforts to update
2 classification and cybersecurity practices sur-
3 rounding quantum technology, including—

4 “(i) security processes and require-
5 ments for engagement with allied coun-
6 tries; and

7 “(ii) a plan for security-cleared work-
8 force development.”.

