

AMENDMENT TO H.R. 8462
OFFERED BY MR. VAN EPPS OF TENNESSEE

Insert after section 24 the following:

1 **SEC. 25. STUDIES RELATING TO NATIONAL QUANTUM INI-**
2 **TIATIVE PROGRAM.**

3 (a) INDEPENDENT STUDY ON PROGRESS MADE BY
4 NATIONAL QUANTUM INITIATIVE PROGRAM.—

5 (1) AGREEMENT.—The Director of the Office of
6 Science and Technology Policy shall seek to enter
7 into an agreement with the National Academies of
8 Sciences, Engineering, and Medicine (in this sub-
9 section the “National Academies”) to carry out the
10 independent study under paragraph (2).

11 (2) INDEPENDENT STUDY.—Under an agree-
12 ment between the Director of the Office of Science
13 and Technology Policy and the National Academies
14 under this subsection, the National Academies shall
15 carry out an independent study to assess the
16 progress made by the National Quantum Initiative
17 Program in achieving the purposes set forth under
18 section 3 of the National Quantum Initiative Act (15
19 U.S.C. 8802) and the goals of the Program, includ-
20 ing with respect to sensing, communications, com-

1 puting, and workforce development for near-term de-
2 velopment and quantum applications.

3 (b) STUDY ON IMPEDIMENTS TO COLLABORATION
4 UNDER NATIONAL QUANTUM INITIATIVE PROGRAM.—

5 (1) STUDY AND REPORT.—Not later than 180
6 days after the date of the enactment of this Act, the
7 consortium convened by the Director of the National
8 Institute of Standards and Technology pursuant to
9 section 201(b)(1) of the National Quantum Initiative
10 Act (15 U.S.C. 8831(b)(1)) shall—

11 (A) conduct a study—

12 (i) on the impediments to collabora-
13 tion under the National Quantum Initia-
14 tive Program implemented pursuant to sec-
15 tion 101(a) of such Act (15 U.S.C.
16 8811(a)) between Multidisciplinary Centers
17 for Quantum Research and Education es-
18 tablished under section 302(a) of such Act
19 (15 U.S.C. 8842(a)), National Quantum
20 Information Science Research Centers es-
21 tablished and operated pursuant to section
22 402(a)(1) of such Act (15 U.S.C.
23 8852(a)(1)), industry, and academia; and

1 (ii) to develop recommendations for
2 legislative action to eliminate or mitigate
3 such impediments; and

4 (B) submit to the Committee on Com-
5 merce, Science, and Transportation of the Sen-
6 ate and the Committee on Science, Space, and
7 Technology of the House of Representatives a
8 report on the findings of the consortium with
9 respect to the study conducted pursuant to sub-
10 paragraph (A).

11 (2) CONTENTS.—The report submitted under
12 paragraph (1)(B) shall include the following:

13 (A) An overview of the current state of re-
14 search being conducted under the National
15 Quantum Initiative Program.

16 (B) A breakdown of the funding under the
17 Program for near-term quantum applications
18 development, disaggregated by different quan-
19 tum technologies, including computing (anneal-
20 ing and gate-model with the different types of
21 qubit technologies), sensing, communication,
22 and networking.

23 (C) Identification of potential risks in the
24 research funded under the Program.

