

[DISCUSSION DRAFT]

119TH CONGRESS
2^D SESSION

H. R. _____

To direct the Secretary of Commerce to promote trusted quantum supply chains and the commercial leadership of the United States with respect to quantum technology, and for other purposes.

IN THE HOUSE OF REPRESENTATIVES

Mr. LANGWORTHY introduced the following bill; which was referred to the Committee on _____

A BILL

To direct the Secretary of Commerce to promote trusted quantum supply chains and the commercial leadership of the United States with respect to quantum technology, and for other purposes.

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. SHORT TITLE.**

4 This Act may be cited as the “American Quantum
5 Competitiveness Act”.

6 **SEC. 2. DEFINITIONS.**

7 In this Act:

1 (1) AGENCY.—The term “agency” has the
2 meaning given that term in section 551 of title 5,
3 United States Code.

4 (2) COVERED NATION.—The term “covered na-
5 tion” has the meaning given that term in section
6 4872(f) of title 10, United States Code.

7 (3) CRITICAL COMPONENT.—The term “critical
8 component” means any commodity, material, prod-
9 uct, hardware, software, or input in foreign or inter-
10 state commerce relating to quantum technology nec-
11 essary for—

12 (A) commercial manufacturing, establish-
13 ment, deployment, use, or scaling of quantum
14 technology; or

15 (B) the commercial leadership of the
16 United States in the commercial establishment
17 and deployment of quantum technology.

18 (4) QUANTUM INFORMATION SCIENCE.—The
19 term “quantum information science” means the use
20 of the law of quantum physics for the storage, trans-
21 mission, manipulation, computing, or measurement
22 of information.

23 (5) QUANTUM TECHNOLOGY.—The term “quan-
24 tum technology” means the application of quantum

1 information science in interstate or foreign com-
2 merce.

3 (6) SECRETARY.—The term “Secretary” means
4 the Secretary of Commerce.

5 (7) TRUSTED FOREIGN PARTNER.—The term
6 “trusted foreign partner” means—

7 (A) the European Union; or

8 (B) a foreign country that—

9 (i) is not a covered nation; and

10 (ii) is a member of—

11 (I) the North Atlantic Treaty Or-
12 ganization;

13 (II) the European Union; or

14 (III) the Organisation for Eco-
15 nomic Co-operation and Development.

16 (8) TRUSTED QUANTUM SUPPLY CHAIN.—The
17 term “trusted quantum supply chain”, with respect
18 to quantum technology, means the sourcing of any
19 critical component from the United States or a
20 trusted supplier, whether in interstate or foreign
21 commerce.

22 (9) TRUSTED SUPPLIER.—The term “trusted
23 supplier” means an entity that—

24 (A) is domiciled in the United States or in
25 a trusted foreign partner;

1 (B) is headquartered in the United States
2 or in a trusted foreign partner;

3 (C) has the principal place of business of
4 the entity in the United States or in a trusted
5 foreign partner; and

6 (D) is organized under the laws of the
7 United States or in a trusted foreign partner.

8 **SEC. 3. PROMOTING COMMERCIAL LEADERSHIP ON QUAN-**
9 **TUM TECHNOLOGY AND TRUSTED QUANTUM**
10 **SUPPLY CHAINS.**

11 The Secretary shall carry out the following:

12 (1) Serve as the principal advisor to the Presi-
13 dent for policy related to the following:

14 (A) The commercial manufacturing, estab-
15 lishment, deployment, use, and scaling of quan-
16 tum technology.

17 (B) The supply of any critical component,
18 including with respect to the availability of any
19 such component.

20 (C) The establishment, maintenance, and
21 resiliency of any trusted quantum supply chain.

22 (2) Carry out any action as appropriate to sup-
23 port the commercial leadership of the United States
24 with respect to quantum technology and any critical
25 component, including the following:

1 (A) Supporting the commercial manufac-
2 turing, establishment, deployment, use, or scal-
3 ing of quantum technology.

4 (B) Promoting investment by private sec-
5 tor entities in the commercial manufacturing,
6 establishment, deployment, use, or scaling of
7 quantum technology in the United States.

8 (C) Entering into an agreement with any
9 of the following:

10 (i) A trusted supplier.

11 (ii) A trusted foreign partner.

12 (iii) An agency.

13 (iv) A State, or agency thereof.

14 (v) Any other entity as the Secretary
15 determines appropriate.

16 (3) In carrying out paragraphs (1) and (2),
17 consult with stakeholders as the Secretary deter-
18 mines appropriate, including with individuals and
19 private sector entities with expertise in the commer-
20 cial manufacturing, establishment, deployment, use,
21 or scaling of quantum technology.

1 **SEC. 4. ADDITIONAL REQUIREMENTS RELATING TO ESTAB-**
2 **LISHMENT, MAINTENANCE, AND RESILIENCY**
3 **OF ANY TRUSTED QUANTUM SUPPLY CHAIN.**

4 (a) IN GENERAL.—In carrying out section 3(1)(C),
5 the Secretary shall carry out the following:

6 (1) Use any authority of the Secretary or direct
7 any program of the Department of Commerce, as
8 the Secretary determines appropriate, to promote
9 the establishment, maintenance, and resiliency of a
10 trusted quantum supply chain.

11 (2) Identify barriers to investment in a trusted
12 quantum supply chain and take appropriate action
13 to address any such barrier.

14 (3) Establish a method and means for the Sec-
15 retary to—

16 (A) identify critical components and assess
17 the availability of such critical components, in-
18 cluding any critical component imported from
19 and manufactured in a covered nation or manu-
20 factured by a trusted supplier.

21 (B) assess, manage, and reduce any risk
22 related to the acquisition of a critical compo-
23 nent provided or supplied by a covered nation.

24 (4) Assess, manage, and reduce any risk related
25 to the supply of a critical component provided by a
26 covered nation, in coordination with the following:

1 (A) Any relevant trusted foreign partner.

2 (B) Any relevant trusted supplier.

3 (C) Any relevant agency.

4 (b) NATIONAL STRATEGY.—

5 (1) IN GENERAL.—Not later than 2 years after
6 the date of the enactment of this Act, and every 3
7 years thereafter, the Secretary shall establish and
8 publish on a publicly available website a report that
9 includes the following:

10 (A) A description of the following:

11 (i) Any action carried out by the Sec-
12 retary pursuant to subsection (a) and sec-
13 tion 3(2).

14 (ii) Any emerging risk or long-term
15 trend related to the economic competitive-
16 ness of the United States with respect to
17 the following:

18 (I) Quantum technology.

19 (II) Any critical component.

20 (III) Any trusted quantum sup-
21 ply chain.

22 (B) A comprehensive strategy to ad-
23 vance—

1 (i) the commercial leadership of the
2 United States in quantum technology and
3 any critical component; and

4 (ii) the establishment, maintenance,
5 and resiliency of a trusted quantum supply
6 chain.

7 (C) Any recommendation by the Secretary
8 for additional legislation (including an Act of
9 Congress), other action by the Federal Govern-
10 ment or any State government, or activity by
11 the private sector to strengthen the economic
12 competitiveness of the United States with re-
13 spect to quantum technology and a trusted
14 quantum supply chain.

15 (2) PUBLIC CONSULTATION.—In establishing
16 and publishing a report pursuant to paragraph (1),
17 the Secretary shall consult with stakeholders as the
18 Secretary determines appropriate, including with in-
19 dividuals and private sector entities with expertise in
20 the commercial manufacturing, establishment, de-
21 ployment, use, or scaling of quantum technology.

22 (c) RULE OF CONSTRUCTION.—Nothing in this sec-
23 tion may be construed to require—

24 (1) a private sector entity to—

- 1 (A) share information with the Secretary;
- 2 or
- 3 (B) implement any measure or rec-
- 4 ommendation established by the Secretary; or
- 5 (2) the Secretary to disclose confidential busi-
- 6 ness information or trade secrets.