AMENDMENT TO THE AMENDMENT IN THE
NATURE OF A SUBSTITUTE TO H.R. 6213

OFFERED BY MR. JACKSON OF NORTH CAROLINA
And Ms. Tenney of New York

Page 24, beginning line 7, insert the following:

1   (C) by amending paragraph (3) to read as
2   follows:

3   "(3) shall carry out research to facilitate the
4   development and standardization of quantum cryp-
5   tography, post-quantum cryptography (as such term
6   is defined in section 3 of the Quantum Computing
7   Cybersecurity Preparedness Act (6 U.S.C. 1526
8   note; Public Law 117–260)), and practices to re-
9   place cryptographic keys or algorithms with minimal
10   disruption to current applications and systems;".

Page 29, beginning line 13, insert the following:

11   "(d) POST QUANTUM CRYPTOGRAPHY DEPLOY-
12   MENT.—

13   "(1) IN GENERAL.—The Director of the Na-
14   tional Institute of Standards and Technology, in
15   consultation with the Secretary of Homeland Secu-
16   rity, the heads of Sector Risk Management Agencies
17   (as such term is defined in section 2200 of the

1 Homeland Security Act of 2002 (6 U.S.C. 650)),

2 and private sector entities, as appropriate, shall pro-

3 mote the voluntary development, adoption, and de-

4 ployment of standards relating to post-quantum

5 cryptography (as such term is defined in section 3

6 of the Quantum Computing Cybersecurity Prepared-

7 ness Act (6 U.S.C. 1526 note; Public Law 117–

8 260)), including by—

9   ''(A) disseminating and making publicly

10   available guidance and resources to help organi-

11   zations adopt and deploy standards relating to

12   post-quantum cryptography and minimize dis-

13   ruptions to current applications and systems

14   caused by cryptographic updates;

15   ''(B) providing technical assistance, as

16   practicable, to entities that are at high risk of

17   quantum cryptoanalytic attacks, such as enti-

18   ties determined to be critical infrastructure (as

19   such term is defined in section 1016(e) of Pub-

20   lic Law 107–56 (42 U.S.C. 5195c(e))) or dig-

21   ital infrastructure providers; and

22   ''(C) conducting such other activities as

23   determined necessary by the Director to pro-

24   mote the development, adoption, and deploy-

1 ment across the United States of standards re-

2 lating to post-quantum cryptography.

3 "(2) GRANT PROGRAM.—

4 "(A) IN GENERAL.—Subject to the avail-

5 ability of appropriations and after the date on

6 which the Director of National Institute of

7 Standards and Technology has issued standards

8 relating to post-quantum cryptography, the Di-

9 rector may establish a program to identify and

10 provide technical assistance through the award

11 of grants to entities that are at high risk of

12 quantum cryptoanalytic attacks, including by

13 granting funds for the adoption of such stand-

14 ards and the remediation of quantum-related

15 vulnerabilities.

16 "(B) USE OF FUNDS.—Grants awarded to

17 entities under this paragraph may be used to

18 cover reasonable costs, up to a specified amount

19 established by the Director of the National In-

20 stitute of Standards and Technology, for activi-

21 ties to adopt standards relating to post-quan-

22 tum cryptographic and remediate quantum-re-

23 lated vulnerabilities.

24 "(C) GUIDANCE.—The Director of the Na-

25 tional Institute of Standards and Technology

1 may develop, and periodically update, guidance,
2 including relating to eligibility, application dis-
3 closure requirements, grant amount and dura-
4 tion, and any additional requirements regarding
5 the award of grants under this paragraph.

6 "(D) CONSULTATION.—If the program de-
7 scribed in this paragraph is established, the Di-
8 rector of the National Institute of Standards
9 and Technology shall consult with the Director
10 of the Cybersecurity and Infrastructure Secu-
11 rity Agency of the Department of Homeland
12 Security, the heads of other Sector Risk Man-
13 agement Agencies, and appropriate representa-
14 tives of private sector entities, including non-
15 profit organizations, to share information re-
16 garding the grant program under this para-
17 graph and guidance developed and updated
18 under subparagraph (C).".

Page 75, beginning line 14, insert the following:

19 **SEC. 22. NATIONAL SCIENCE FOUNDATION CRYPTOGRAPHY**
20 **RESEARCH.**

21 Subsection (a)(1)(A) of section 4 of the Cyber Secu-
22 rity Research and Development Act (15 U.S.C. 7403) is
23 amended by inserting ", including post-quantum cryptog-
24 raphy (as such term is defined in section 3 of the Quan-

5

1 tum Computing Cybersecurity Preparedness Act (6 U.S.C.

2 1526 note; Public Law 117–260))'' before the semicolon.

☒