

**AMENDMENT TO THE AMENDMENT IN THE
NATURE OF A SUBSTITUTE TO H.R. 6213
OFFERED BY MR. BABIN OF TEXAS With
Ms. Ross of North Carolina**

Page 69, beginning line 16, insert the following:

1 **SEC. 21. QUANTUM INFORMATION SCIENCE TO ENHANCE**
2 **THE RESILIENCE, SECURITY, AND EFFI-**
3 **CIENCY OF THE ELECTRIC GRID.**

4 (a) IN GENERAL.—Title IV of the National Quantum
5 Initiative Act (15 U.S.C. 8851 et seq.) is amended by add-
6 ing at the end the following:

7 **“SEC. 405. QUANTUM INFORMATION SCIENCE TO ENHANCE**
8 **THE RESILIENCE AND SECURITY OF THE**
9 **ELECTRIC GRID.**

10 “(a) IN GENERAL.—The Secretary of Energy (re-
11 ferred to in this section as the ‘Secretary’) shall conduct
12 research, development, and demonstration activities fo-
13 cused on the use of quantum information science, engi-
14 neering, and technology, including through quantum appli-
15 cations and quantum computing, to enhance the resilience,
16 security, and efficiency of the electric grid in the United
17 States.

1 “(b) RESEARCH AREAS.—In carrying out subsection
2 (a), the Secretary may conduct research in the following
3 areas:

4 “(1) Fault detection and prediction.

5 “(2) Grid security and safety, including through
6 post-quantum cryptography.

7 “(3) Integrated grid planning.

8 “(4) Grid optimization.

9 “(5) Enhanced modeling.

10 “(6) Energy storage.

11 “(7) Energy market optimization.

12 “(8) Any other area in which, in the determina-
13 tion of the Secretary, quantum information science,
14 engineering, and technology can enhance the resil-
15 ience, security, and efficiency of the electric grid in
16 the United States.

17 “(c) COOPERATION.—To the extent practicable, the
18 Secretary shall conduct research, development, and dem-
19 onstration activities under subsection (a) in cooperation,
20 including through partnerships, as the Secretary deter-
21 mines to be appropriate, with members of relevant indus-
22 tries, National Laboratories, institutions of higher edu-
23 cation, and other relevant institutions, including research
24 institutions, as determined by the Secretary.”.

1 (b) CLERICAL AMENDMENT.—The table of contents
2 in section 1(b) of the National Quantum Initiative Act
3 (Public Law 115–368; 132 Stat. 5092; 136 Stat. 1441)
4 is amended by inserting after the item relating to section
5 404 the following:

“Sec. 405. Quantum information science to enhance the resilience and security
of the electric grid.”.

