**SA 4599.** Ms. HASSAN (for herself and Mr. THUNE) submitted an amendment intended to be proposed to amendment SA 3867 submitted by Mr. REED and intended to be proposed to the bill H.R. 4350, to authorize appropriations for fiscal year 2022 for military activities of the Department of Defense, for military construction, and for defense activities of the Department of Energy, to prescribe military personnel strengths for such fiscal year, and for other purposes; which was ordered to lie on the table; as follows:

At the appropriate place in title II, insert the following:

**SEC. 2___. APPLICATION OF PUBLIC-PRIVATE TALENT EXCHANGE PROGRAMS IN THE DEPARTMENT OF DEFENSE TO QUANTUM INFORMATION SCIENCES AND TECHNOLOGY RESEARCH.**

In carrying out section 1599g of title 10, United States Code, the Secretary of Defense may establish public-private exchange programs, each with up to 10 program participants, focused on private sector entities working on quantum information sciences and technology research applications.

**SEC. 2___. BRIEFING ON SCIENCE, MATHEMATICS, AND RESEARCH FOR TRANSFORMATION (SMART) DEFENSE EDUCATION PROGRAM.**

Not later than three years after the date of the enactment of this Act, the Secretary of Defense shall provide Congress with a briefing on participation and use of the program under section 2192a of title 10, United States Code, as amended by this subsection, with a particular focus on levels of interest from students engaged in studying quantum fields.

**SEC. 2___. IMPROVEMENTS TO DEFENSE QUANTUM INFORMATION SCIENCE AND TECHNOLOGY RESEARCH AND DEVELOPMENT PROGRAM.**

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

(1) by redesignating subsection (f) as subsection (g); and

(2) by inserting after subsection (e) the following new subsection (f):

''(f) FELLOWSHIPS.—

''(1) PROGRAM AUTHORIZED.—In carrying out the program required by subsection (a) and subject to the availability of appropriations to carry out this subsection, the Secretary may carry out a program of fellowships in quantum information science and technology research and development for individuals who have a graduate or post-graduate degree.

''(2) EQUAL ACCESS.—In carrying out the program under paragraph (1), the Secretary may establish procedures to ensure that minority, geographically diverse, and economically disadvantaged students have equal access to fellowship opportunities under such program.''.

(b) MULTIDISCIPLINARY PARTNERSHIPS WITH UNIVERSITIES.—Such section is further amended—

(1) by redesignating subsection (g), as redesignated by subsection (a)(1), as subsection (h); and

(2) by inserting after subsection (f), as added by subsection (a)(2), the following new subsection (g):

''(g) MULTIDISCIPLINARY PARTNERSHIPS WITH UNIVERSITIES.—In carrying out the program under subsection (a), the Secretary of Defense may develop partnerships with universities to enable students to engage in multidisciplinary courses of study.''.

(c) COMPTROLLER GENERAL OF THE UNITED STATES ASSESSMENT OF PROGRAM.—

(1) ASSESSMENT AND BRIEFING.—Not later than 180 days after the date of the enactment of this Act, the Comptroller General of the United States shall—

(A) commence an assessment of the program carried out under section 234 of the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Public Law 115–232; 10 U.S.C. 2358 note), as amended by this section, with consideration of the report submitted under subsection (h) of such section (as redesignated by subsection (b)(2) of this section); and

(B) provide the congressional defense committees a briefing on the preliminary findings of the Comptroller General with respect to such program.

(2) FINAL REPORT.—At a date agreed to by the Comptroller General and the congressional defense committees at the briefing provided pursuant to paragraph (1)(B), the Comptroller General shall submit to the congressional defense committees a final report with the findings of the Comptroller General with respect to the assessment conducted under paragraph (1)(A).

**SEC. 2___. IMPROVEMENTS TO NATIONAL QUANTUM INITIATIVE PROGRAM.**

(a) INVOLVEMENT OF DEPARTMENT OF DEFENSE AND INTELLIGENCE COMMUNITY IN NATIONAL QUANTUM INITIATIVE ADVISORY COMMITTEE.—

(1) QUALIFICATIONS.—Subsection (b) of section 104 of the National Quantum Initiative Act (Public Law 115–368; 15 U.S.C. 8814) is amended by striking ''and Federal laboratories'' and inserting ''Federal laboratories, and defense and intelligence researchers''.

(2) INTEGRATION.—Such section is amended—

(A) by redesignating subsections (e) through (g) as subsection (f) through (h), respectively; and

(B) by inserting after subsection (d) the following new subsection (e):

''(e) INTEGRATION OF DEPARTMENT OF DEFENSE AND INTELLIGENCE COMMUNITY.—The Advisory Committee shall take such actions as may be necessary, including by modifying policies and procedures of the Advisory Committee, to ensure the full integration of the Department of Defense and the intelligence community (as defined in section 3 of the National Security Act of 1947 (50 U.S.C. 3003)) in activities of the Advisory Committee.''.

(b) CLARIFICATION OF PURPOSE OF MULTIDISCIPLINARY CENTERS FOR QUANTUM RESEARCH AND EDUCATION.—Section 302(c) of the National Quantum Initiative Act (Public Law 115–368; 15 U.S.C. 8842(c)) is amended—

(1) in paragraph (2), by striking ''; and'' and inserting a semicolon;

(2) in paragraph (3), by striking the period at the end and inserting ''; and''; and

(3) by adding at the end the following new paragraph:

''(4) encouraging workforce collaboration, both with private industry and among Federal entities, including national defense agencies and the intelligence community (as defined in section 3 of the National Security Act of 1947 (50 U.S.C. 3003)).''.

(c) COORDINATION OF NATIONAL QUANTUM INFORMATION SCIENCE RESEARCH CENTERS.—Section 402(d) of the National Quantum Initiative Act (Public Law 115–368; 15 U.S.C. 8852(d)) is amended—

(1) by redesignating paragraphs (2) and (3) as paragraphs (3) and (4), respectively; and

(2) by inserting after paragraph (1) the following new paragraph (2):

''(2) other research entities of the Federal government, including research entities in the Department of Defense and research entities in the intelligence community (as defined in section 3 of the National Security Act of 1947 (50 U.S.C. 3003));''.

(d) NATIONAL QUANTUM COORDINATION OFFICE, COLLABORATION WHEN REPORTING TO CONGRESS.—Section 102 of the National Quantum Initiative Act (Public Law 115–368; 15 U.S.C. 8812) is amended—

(1) by redesignating subsection (c) as subsection (d); and

(2) by inserting after subsection (b) the following new subsection (c):

''(c) COLLABORATION WHEN REPORTING TO CONGRESS.—The Coordination Office shall ensure that when participants in the National Quantum Initiative Program prepare and submit reports to Congress that they do so in collaboration with each other and as appropriate Federal civilian, defense, and intelligence research entities.''.

(e) REPORTING TO ADDITIONAL COMMITTEES OF CONGRESS.—Paragraph (2) of section 2 of such Act (15 U.S.C. 8801) is amended to read as follows:

''(2) APPROPRIATE COMMITTEES OF CONGRESS.—The term 'appropriate committees of Congress' means—

''(A) the Committee on Commerce, Science, and Transportation, the Committee on Energy and Natural Resources, the Committee on Armed Services, and the Select Committee on Intelligence of the Senate; and

''(B) the Committee on Energy and Commerce, the Committee on Science, Space, and Technology, the Committee on Armed Services, and the Permanent Select Committee on Intelligence of the House of Representatives.''.

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**SA 4600.** Mr. LUJÁN submitted an amendment intended to be proposed to amendment SA 3867 submitted by Mr. REED and intended to be proposed to the bill H.R. 4350, to authorize appropriations for fiscal year 2022 for military activities of the Department of Defense, for military construction, and for defense activities of the Department of Energy, to prescribe military personnel strengths for such fiscal year, and for other purposes; which was ordered to lie on the table; as follows:

At the end of subtitle E of title XXXI, add the following:

**SEC. 3157. AUTHORIZATION FOR NATIONAL SECURITY LABORATORIES AND NUCLEAR WEAPONS PRODUCTION FACILITIES TO COVER CERTAIN TRAINING AND EDUCATION COSTS.**

(a) IN GENERAL.—Notwithstanding subsections (d) and (e) of section 31.205–44 of title 48, Code of Federal Regulations, on and after the date of the enactment of this Act, the director of a national security laboratory or nuclear weapons production facility may provide grants to educational and training institutions to cover the costs of educating employees (including other than bona fide employees) and prospective employees of the laboratory or facility for the development of a workforce that meets the needs of the laboratory or facility, including the costs of the donation of equipment, scholarships, and fellowships.

(b) REVISION TO FEDERAL ACQUISITION REGULATION.—As soon as practicable after the date of the enactment of this Act, the Federal Acquisition Regulatory Council shall revise the Federal Acquisition Regulation to carry out subsection (a).

(c) DEFINITIONS.—In this section:

(1) BONA FIDE EMPLOYEE.—The term ''bona fide employee'' has the meaning given that term in section 52.203–5 of title 48, Code of Federal Regulations (or a successor regulation).

(2) NATIONAL SECURITY LABORATORY; NUCLEAR WEAPONS PRODUCTION FACILITY.—The terms ''national security laboratory'' and ''nuclear weapons production facility'' have the meanings given those terms in section 4002 of the Atomic Energy Defense Act (50 U.S.C. 2501)).

(3) PROSPECTIVE EMPLOYEE.—The term ''prospective employee'' means an individual who—

(A) has applied for a position of employment with a national security laboratory or nuclear weapons production facility; or

(B) may apply for such a position of employment during the 48-month period after receiving education or training under subsection (a).

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**SA 4601.** Mr. LUJÁN submitted an amendment intended to be proposed to amendment SA 3867 submitted by Mr. REED and intended to be proposed to the bill H.R. 4350, to authorize appropriations for fiscal year 2022 for military activities of the Department of Defense, for military construction, and for defense activities of the Department of Energy, to prescribe military personnel strengths for such fiscal year, and for other purposes; which was ordered to lie on the table; as follows:

At the end of subtitle E of title XXXI, add the following:

**SEC. 3157. ASSESSMENT OF TRANSFER OF LAND NO LONGER NEEDED FOR OPERATIONS AND MISSIONS AT LOS ALAMOS NATIONAL LABORATORY.**

(a) SITE VISITS REQUIRED.—

(1) IN GENERAL.—Not later than 180 days after the date of the enactment of this Act, the Administrator for Nuclear Security shall arrange for personnel of the National Nuclear Security Administration to conduct site visits with officials of Los Alamos County, New Mexico, and the Pueblo of San Ildefonso, of covered parcels of land to assess whether those parcels should be transferred to the County or Pueblo.

(2) ASSESSMENTS AND IDENTIFICATIONS.—After the site visits required by paragraph (1) are conducted, the Administrator shall—

(A) with respect to each covered parcel of land, assess—

(i) the remediation needs of the parcel;

(ii) the environmental and archeological impacts of transferring the parcel; and

(iii) the access Tribes have to traditional areas of cultural or religious importance; and

(B) identify whether all portions of the covered parcels of land within the technical areas specified in subsection (c)(2) are, or are anticipated to be, necessary to the operations and missions of the Administration at Los Alamos National Laboratory.

(b) REPORT REQUIRED.—Not later than 180 days after the date of the enactment of this Act, the Administrator, in consultation with officials of Los Alamos County, New Mexico, and the Pueblo of San Ildefonso, shall submit to the Committees on Armed Services of the Senate and the House of Representatives a report—

(1) describing the findings of the site visits required by subsection (a);

(2) including the assessments and identification required by subsection (a)(2);

(3) assessing—

(A) the environmental costs of transferring covered parcels of land;

(B) the potential impacts of such transfers on endangered species in the area;

(C) the disturbance or encroachment on any archeological sites likely to result from such transfers;

(D) opportunities to improve any safety buffers around critical facilities; and

(E) whether such a transfer would—

(i) assist the National Nuclear Security Administration with recruitment at Los Alamos National Laboratory;

(ii) improve available housing for employees of that laboratory; and

(iii) increase the ability of a Tribal Government or Tribal members to access cultural resources and access or acquire lands of cultural significance; and

(4) including a safety and security determination with respect to each covered parcel of land, without regard to whether the parcel can be transferred.

(c) COVERED PARCEL OF LAND.—The term ''covered parcel of land''—

(1) means a parcel of land—

(A) located in Los Alamos County, New Mexico;

(B) owned by the Department of Energy; and

(C) that the Administrator determines is not needed for operations and missions at Los Alamos National Laboratory; and

(2) includes Technical Area–36, Technical Area–70, and Technical Area–71 at Los Alamos National Laboratory.

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**SA 4602.** Mr. LUJÁN (for himself, Mr. PADILLA, and Mr. MENENDEZ) submitted an amendment intended to be proposed to amendment SA 3867 submitted by Mr. REED and intended to be proposed to the bill H.R. 4350, to authorize appropriations for fiscal year 2022 for military activities of the Department of Defense, for military construction, and for defense activities of the Department of Energy, to prescribe military personnel strengths for such fiscal year, and for other purposes; which was ordered to lie on the table; as follows:

At the end of subtitle E of title VIII, insert the following:

**SEC. 857. LIMITATION ON CONTRACT AUTHORITY TO IMPROVE REPRESENTATION IN CERTAIN MEDIA PROJECTS INVOLVING DEPARTMENT OF DEFENSE.**

(a) LIMITATION ON CONTRACT AUTHORITY.—Neither the Secretary of Defense, nor the Secretary of the Army, nor the Secretary of the Navy, nor the Secretary of the Air Force, may enter into a covered contract for any film or publishing project for entertainment-oriented media unless the covered contract includes a provision that requires consideration of diversity in carrying out the project, including consideration of the following:

(1) The composition of the community represented in the project and whether such community is inclusive of historically marginalized communities.

(2) The depiction of the community represented in the project and whether or not the project advances any inaccurate or harmful stereotypes as a result of such depiction.

(b) ANNUAL REPORT.—Not later than one year after the date of the enactment of this Act, and annually thereafter for five years, the Secretary of Defense shall submit to the Committees on Armed Services of the House of Representatives and the Senate a report containing, with respect to the year covered by the report, the following information:

(1) The total number of projects for which the Secretary provided assistance pursuant to a covered contract.

(2) A summary of the projects specified in paragraph (1).

(3) A summary of the communities represented in such projects.

(4) A summary of the involvement of the Department of Defense with respect to such projects.

(c) DEFINITIONS.—In this section:

(1) The term ''covered contract'' means a contract or production assistance agreement entered into with a nongovernmental entertainment-oriented media producer or publisher.

(2) The term ''entertainment-oriented media'' includes books and other forms of print media that are entertainment-oriented.

(3) The term ''marginalized community'' means a community of individuals that is, or historically was, under-represented in the industry of film, television, or publishing, including—

(A) women;

(B) racial and ethnic minorities;

(C) individuals with disabilities; and

(D) members of the LGBTQ communities.

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**SA 4603.** Mr. PORTMAN (for himself and Mr. CARDIN) submitted an amendment intended to be proposed to amendment SA 3867 submitted by Mr. REED and intended to be proposed to the bill H.R. 4350, to authorize appropriations for fiscal year 2022 for military activities of the Department of Defense, for military construction, and for defense activities of the Department of Energy, to prescribe military personnel strengths for such fiscal year, and for other purposes; which was ordered to lie on the table; as follows:

At the end of subtitle G of title XII, add the following:

**SEC. 1283. ECONOMIC DEFENSE RESPONSE TEAMS.**

(a) PILOT PROGRAM.—Not later than 180 days after the date of the enactment of this Act, the President, acting through the Secretary of State, shall develop and implement a pilot program for the creation of deployable economic defense response teams to help provide emergency technical assistance and support to a country subjected to the threat or use of coercive economic measures and to play a liaison role between the legitimate government of that country and the United States Government. Such assistance and support may include the following activities:

(1) Reducing the partner country's vulnerability to coercive economic measures.

(2) Minimizing the damage that such measures by an adversary could cause to that country.

(3) Implementing any bilateral or multilateral contingency plans that may exist for responding to the threat or use of such measures.

(4) In coordination with the partner country, developing or improving plans and strategies by the country for reducing vulnerabilities and improving responses to such measures in the future.

(5) Assisting the partner country in dealing with foreign sovereign investment in infrastructure or related projects that may undermine the partner country's sovereignty.

(6) Assisting the partner country in responding to specific efforts from an adversary attempting to employ economic coercion that undermines the partner country's sovereignty, including efforts in the cyber domain, such as efforts that undermine cybersecurity or digital security of the partner country or initiatives that introduce digital technologies in a manner that undermines freedom, security, and sovereignty of the partner country.

(7) Otherwise providing direct and relevant short-to-medium term economic or other assistance from the United States and marshalling other resources in support of effective responses to such measures.