JUNE 18, 2019

RULES COMMITTEE PRINT 116–19

TEXT OF H.R. 2500, NATIONAL DEFENSE AUTHORIZATION ACT FOR FISCAL YEAR 2020

[Showing the text of H.R. 2500, as ordered reported by the Committee on Armed Services]

SECTION 1. SHORT TITLE.

This Act may be cited as the ''National Defense Authorization Act for Fiscal Year 2020''.

SEC. 2. ORGANIZATION OF ACT INTO DIVISIONS; TABLE OF CONTENTS.

(a) DIVISIONS.—This Act is organized into four divisions as follows:

(1) Division A—Department of Defense Authorizations.

(2) Division B—Military Construction Authorizations.

(3) Division C—Department of Energy National Security Authorizations and Other Authorizations.

(4) Division D—Funding Tables.

(b) TABLE OF CONTENTS.—The table of contents for this Act is as follows:

Sec. 1. Short title.
Sec. 2. Organization of Act into divisions; table of contents.

Sec. 3. Congressional defense committees.

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Sec. 101. Authorization of appropriations.

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Sec. 112. Repeal of requirement to adhere to Navy cost estimates for certain aircraft carriers.
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Sec. 114. Prohibition on use of funds for reduction of aircraft carrier force structure.
Sec. 115. Design and construction of amphibious transport dock designated LPD–31.
Sec. 116. Limitation on availability of funds pending quarterly updates on the CH–53K King Stallion helicopter program.
Sec. 117. Limitation on availability of funds for VH–92A helicopter.
Sec. 118. National Defense Reserve Fleet Vessel.

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Sec. 121. Modification of requirement to preserve certain C–5 aircraft.
Sec. 122. Modification of limitation on use of funds for KC–46A aircraft.
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Sec. 124. Prohibition on availability of funds for reduction in KC–10 primary mission aircraft inventory.
Sec. 125. Limitation on availability of funds for VC–25B aircraft.
Sec. 126. Limitation on availability of funds for retirement of RC–135 aircraft.
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Sec. 132. Program requirements for the F–35 aircraft program.
Sec. 133. Reports on F–35 aircraft program.

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Sec. 201. Authorization of appropriations.

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Sec. 212. Temporary inclusion of joint artificial intelligence center of the Department of Defense in personnel management authority to attract experts in science and engineering.

Sec. 213. Joint Hypersonics Transition Office.
Sec. 214. Modification of proof of concept commercialization program.
Sec. 215. Contract for national security research studies.
Sec. 216. JASON Scientific Advisory Group.
Sec. 217. Direct Air Capture and Blue Carbon Removal Technology Program.
Sec. 218. Foreign malign influence operations research program.
Sec. 219. Sensor data integration for fifth generation aircraft.
Sec. 220. Documentation relating to Advanced Battle Management System.
Sec. 221. Documentation relating to B–52 commercial engine replacement program.
Sec. 222. Diversification of the science, technology, research, and engineering workforce of the Department of Defense.
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Sec. 225. Process to align policy formulation and emerging technology development.
Sec. 226. Limitation on transition of Strategic Capabilities Office of the Department of Defense.

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Sec. 232. Master plan for infrastructure required to support research, development, test, and evaluation missions.
Sec. 233. Strategy and implementation plan for fifth generation information and communications technologies.
Sec. 234. Department-wide software science and technology strategy.
Sec. 235. Artificial intelligence education strategy.
Sec. 236. Biannual report on the Joint Artificial Intelligence Center.
Sec. 237. Quarterly updates on the Optionally Manned Fighting Vehicle program.
Sec. 238. Grants for civics education programs.
Sec. 239. Technology and national security fellowship.
Sec. 240. National Security Commission on Defense Research at Historically Black Colleges and Universities and Other Minority Institutions.

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Sec. 516. JROTC computer science and cybersecurity program.
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Sec. 526. Strategic plan for diversity and inclusion.
Sec. 527. Independent study on barriers to entry into the Armed Forces for English learners.
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TITLE XXXII—DEFENSE NUCLEAR FACILITIES SAFETY BOARD

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Sec. 4501. Other authorizations.
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Sec. 4601. Military construction.
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TITLE XLVII—DEPARTMENT OF ENERGY NATIONAL SECURITY PROGRAMS

Sec. 4701. Department of Energy national security programs.

SEC. 3. CONGRESSIONAL DEFENSE COMMITTEES.

In this Act, the term ''congressional defense committees'' has the meaning given that term in section 101(a)(16) of title 10, United States Code.

DIVISION A—DEPARTMENT OF DEFENSE AUTHORIZATIONS

TITLE I—PROCUREMENT

Subtitle A—Authorization of Appropriations

SEC. 101. AUTHORIZATION OF APPROPRIATIONS.

Funds are hereby authorized to be appropriated for fiscal year 2020 for procurement for the Army, the Navy

and the Marine Corps, the Air Force, and Defense-wide activities, as specified in the funding table in section 4101.

Subtitle B—Navy Programs

SEC. 111. MODIFICATION OF ANNUAL REPORT ON COST TARGETS FOR CERTAIN AIRCRAFT CARRIERS.

Section 126(c) of the National Defense Authorization Act for Fiscal Year 2017 (Public Law 114–328; 130 Stat. 2035) is amended—

(1) in the subsection heading, by striking ''AND CVN–80'' and inserting '', CVN–80, AND CVN–81'';

(2) in paragraph (1), by striking ''costs described in subsection (b) for the CVN–79 and CVN–80'' and inserting ''cost targets for the CVN–79, the CVN–80, and the CVN–81''; and

(3) in paragraph (2)—

(A) in the matter preceding subparagraph (A), by striking '' and the CVN–80'' and inserting '', the CVN–80, and the CVN–81''

(B) in subparagraph (A), by striking ''costs described in subsection (b)'' and inserting ''cost targets'';

(C) in subparagraph (F), by striking ''costs specified in subsection (b)'' and inserting ''cost targets''; and

(D) in subparagraph (G), by striking ''costs specified in subsection (b)'' and inserting ''cost targets''.

SEC. 112. REPEAL OF REQUIREMENT TO ADHERE TO NAVY COST ESTIMATES FOR CERTAIN AIRCRAFT CARRIERS.

Section 122 of the John Warner National Defense Authorization Act for Fiscal Year 2007 (Public Law 109–364; 120 Stat. 2104), as most recently amended by section 121(a) of the National Defense Authorization Act for Fiscal Year 2018 (Public Law 115–91; 131 Stat. 1309), is repealed.

SEC. 113. FORD CLASS AIRCRAFT CARRIER SUPPORT FOR F–35C AIRCRAFT.

Before accepting delivery of the Ford class aircraft carrier designated CVN–79, the Secretary of the Navy shall ensure that the aircraft carrier is capable of operating and deploying with the F–35C aircraft.

SEC. 114. PROHIBITION ON USE OF FUNDS FOR REDUCTION OF AIRCRAFT CARRIER FORCE STRUCTURE.

None of the funds authorized to be appropriated by this Act or otherwise made available for fiscal year 2020 for the Department of Defense may be obligated or expended to reduce the number of operational aircraft car-

riers of the Navy below the number specified in section 8062(b) of title 10, United States Code.

SEC. 115. DESIGN AND CONSTRUCTION OF AMPHIBIOUS TRANSPORT DOCK DESIGNATED LPD–31.

(a) IN GENERAL.—Using funds authorized to be appropriated for the Department of Defense for Shipbuilding and Conversion, Navy, the Secretary of the Navy may enter into a contract, beginning with the fiscal year 2020 program year, for the design and construction of the amphibious transport dock designated LPD–31.

(b) USE OF INCREMENTAL FUNDING.—With respect to the contract entered into under subsection (a), the Secretary may use incremental funding to make payments under the contract.

(c) CONDITION FOR OUT-YEAR CONTRACT PAYMENTS.—The contract entered into under subsection (a) shall provide that any obligation of the United States to make a payment under such contract for any fiscal year after fiscal year 2020 is subject to the availability of appropriations for that purpose for such later fiscal year.

SEC. 116. LIMITATION ON AVAILABILITY OF FUNDS PENDING QUARTERLY UPDATES ON THE CH–53K KING STALLION HELICOPTER PROGRAM.

(a) LIMITATION.—Of the funds authorized to be appropriated by this Act or otherwise made available for fis-

cal year 2020 for aircraft procurement, Navy, for the CH–53K King Stallion helicopter program, not more than 50 percent may be obligated or expended until a period of 30 days has elapsed following the date on which the Secretary of the Navy provides the first briefing required under subsection (b).

(b) QUARTERLY BRIEFINGS REQUIRED.—

(1) IN GENERAL.—Beginning not later than October 1, 2019, and on a quarterly basis thereafter through October 1, 2022, the Secretary of the Navy shall provide to the Committee on Armed Services of the House of Representatives a briefing on the progress of the CH–53K King Stallion helicopter program.

(2) ELEMENTS.—Each briefing under paragraph (1) shall include, with respect to the CH–53K King Stallion helicopter program, the following:

(A) An overview of the program schedule.

(B) A statement of the total cost of the program as of the date of the briefing, including the costs of development, testing, and production.

(C) A comparison of the total cost of the program relative to the approved acquisition program baseline.

(D) An assessment of flight testing under the program, including identification of the number of test events have been conducted on-time in accordance with the joint integrated program schedule.

(E) An update on the correction of technical deficiencies under the program, including—

(i) identification of the technical deficiencies that have been corrected as of the date of the briefing;

(ii) identification of the technical deficiencies that have been discovered, but not corrected, as of such date;

(iii) an estimate of the total cost of correcting technical deficiencies under the program; and

(iv) an explanation of any significant deviations from the testing and program schedule that are anticipated due to the discovery and correction of technical deficiencies.

SEC. 117. LIMITATION ON AVAILABILITY OF FUNDS FOR VH–92A HELICOPTER.

(a) LIMITATION.—Of the funds authorized to be appropriated by this Act or otherwise made available for fiscal year 2020 for procurement for the VH–92A helicopter, not more than 75 percent may be obligated or expended until the date on which the Secretary of Navy submits to the Committee on Armed Services of the House of Representatives the report required under subsection (b).

(b) REPORT REQUIRED.—The Secretary of the Navy shall submit to the Committee on Armed Services of the House of Representatives a report assessing the status of the VH–92A helicopter program industrial base and the potential impact of proposed manufacturing base changes on the acquisition program. The report shall include a description of—

(1) estimated effects on the manufacturing readiness level of the VH–92 program due to planned changes to the program manufacturing base;

(2) the estimated costs and assessment of cost risk to the program due to planned changes to the program manufacturing base;

(3) any estimated schedule impacts, including impacts on delivery dates for the remaining low-rate

initial production lots and full rate production, resulting from changes to the manufacturing base;

(4) an assessment of the effect of changes to the manufacturing base on VH–92A sustainment; and

(5) the impact of such changes on production and sustainment capacity for the MH–60 and CH–53K helicopters of the Navy.

SEC. 118. NATIONAL DEFENSE RESERVE FLEET VESSEL.

(a) IN GENERAL.—Subject to the availability of appropriations, the Secretary of the Navy, acting through the executive agent described in subsection (e), shall seek to enter into a contract for the construction of one sealift vessel for the National Defense Reserve Fleet.

(b) DELIVERY DATE.—The contract entered into under subsection (a) shall specify a delivery date for the sealift vessel of not later than September 30, 2026.

(c) DESIGN AND CONSTRUCTION REQUIREMENTS.—

(1) USE OF EXISTING DESIGN.—The design of the sealift vessel shall be based on a domestic or foreign design that exists as of the date of the enactment of this Act.

(2) COMMERCIAL STANDARDS AND PRACTICES.—Subject to paragraph (1), the sealift vessel shall be constructed using commercial design stand-

ards and commercial construction practices that are consistent with the best interests of the Federal Government.

(3) DOMESTIC SHIPYARD.—The sealift vessel shall be constructed in a shipyard that is located in the United States.

(d) CERTIFICATE AND ENDORSEMENT.—The sealift vessel shall meet the requirements necessary to receive a certificate of documentation and a coastwise endorsement under chapter 121 of tile 46, United States Code, and the Secretary of the Navy shall ensure that the completed vessel receives such a certificate and endorsement.

(e) EXECUTIVE AGENT.—

(1) IN GENERAL.—The Secretary of the Navy shall seek to enter into a contract or other agreement with a private-sector entity under which the entity shall act as executive agent for the Secretary for purposes of the contract under subsection (a).

(2) RESPONSIBILITIES.—The executive agent described in paragraph (1) shall be responsible for—

(A) selecting a shipyard for the construction of the sealift vessel;

(B) managing and overseeing the construction of the sealift vessel; and

(C) such other matters as the Secretary of the Navy determines to be appropriate

(f) USE OF INCREMENTAL FUNDING.—With respect to the contract entered into under subsection (a), the Secretary of the Navy may use incremental funding to make payments under the contract.

(g) SEALIFT VESSEL DEFINED.—In this section, the term ''sealift vessel'' means the sealift vessel constructed for the National Defense Reserve Fleet pursuant to the contract entered into under subsection (a).

Subtitle C—Air Force Programs

SEC. 121. MODIFICATION OF REQUIREMENT TO PRESERVE CERTAIN C–5 AIRCRAFT.

Section 141(d) of the National Defense Authorization Act for Fiscal Year 2013 (Public Law 112–239; 126 Stat. 1661) is amended—

(1) in paragraph (1), by striking ''until the date that is 30 days after the date on which the briefing under section 144(b) of the National Defense Authorization Act for Fiscal Year 2018 is provided to the congressional defense committees''; and

(2) in paragraph (2)(A), by striking ''can be returned to service'' and inserting ''is inducted into or maintained in type 1000 recallable storage''.

SEC. 122. MODIFICATION OF LIMITATION ON USE OF FUNDS FOR KC–46A AIRCRAFT.

Section 146(a)(1) of the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Public Law 115–232) is amended by striking ''the military type certification'' and inserting ''either the military type certification or a military flight release''.

SEC. 123. F–15EX AIRCRAFT PROGRAM.

(a) DESIGNATION OF MAJOR SUBPROGRAM.—In accordance with section 2430a of title 10, United States Code, the Secretary of Defense shall designate the F–15EX program as a major subprogram of the F–15 aircraft program.

(b) LIMITATION.—Except as provided in subsection (c), none of the funds authorized to be appropriated by this Act or otherwise made available for fiscal year 2020 for the Air Force may be obligated or expended to procure an F–15EX aircraft until a period of 30 days has elapsed following the date on which the Secretary of the Air Force submits to the congressional defense committees the following documentation relating to the F–15EX program:

(1) A program acquisition strategy.

(2) An acquisition program baseline.

(3) A test and evaluation master plan.

(4) A life-cycle sustainment plan.

(5) A post-production fielding strategy.

(c) EXCEPTION FOR PRODUCTION OF PROTOTYPES.—

(1) IN GENERAL.—Notwithstanding subsection (b), the Secretary of the Air Force may use the funds described in paragraph (2) to develop, produce, and test not more than two prototypes of the F–15EX aircraft.

(2) FUNDS DESCRIBED.—The funds described in this paragraph are funds authorized to be appropriated by this Act or otherwise made available for fiscal year 2020 for the Air Force for any of the following:

(A) Research and development, nonrecurring engineering.

(B) Aircraft procurement.

(d) F–15EX PROGRAM DEFINED.—In this section, the term ''F–15EX program'' means the F–15EX aircraft program of the Air Force as described in the materials submitted to Congress by the Secretary of Defense in support of the budget of the President for fiscal year 2020 (as submitted to Congress under section 1105(a) of title 31, United States Code).

SEC. 124. PROHIBITION ON AVAILABILITY OF FUNDS FOR REDUCTION IN KC–10 PRIMARY MISSION AIRCRAFT INVENTORY.

None of the funds authorized to be appropriated by this Act or otherwise made available for fiscal year 2020 for the Air Force may be obligated or expended to reduce the number of KC–10 aircraft in the primary mission aircraft inventory of the Air Force.

SEC. 125. LIMITATION ON AVAILABILITY OF FUNDS FOR VC–25B AIRCRAFT.

(a) LIMITATION.—None of the funds authorized to be appropriated by this Act or otherwise made available for fiscal year 2020 or any subsequent fiscal year for the Air Force may be obligated or expended to carry out over-and-above work on the VC–25B aircraft until the date on which the Secretary of the Air Force certifies to the congressional defense committees that—

(1) with respect to work relating to aircraft paint scheme, interiors and livery, such work will not result in changes to the VC–25B aircraft that cause the aircraft to exceed—

(A) the specification requirements applicable to the VC–25A aircraft; or

(B) the quality or grade of the VC–25A aircraft;

(2) the livery for the VC–25B aircraft will comply with the criteria set forth in the report of the Boeing Company titled ''Phase II Aircraft Livery and Paint Study Final Report'' as submitted to the Federal Government in April 2017;

(3) such work is not a result of late design changes made by the Federal Government to the interior design of the VC–25B aircraft; and

(4) such work is not a result of rework that exceeds the criteria set forth in the report of the Boeing Company titled ''Presidential Quality Interior Acceptance Standards Report'' as submitted to the Federal Government in September 2018.

(b) OVER-AND-ABOVE WORK DEFINED.—In this section, the term ''over-and-above work'' means work discovered during the course of performing overhaul, maintenance, or repair efforts that—

(1) is within the general scope of the contract pursuant to which such efforts are carried out;

(2) is not covered by a line item for the basic work under the contract; and

(3) is necessary in order to satisfactorily complete the contract.

SEC. 126. LIMITATION ON AVAILABILITY OF FUNDS FOR RETIREMENT OF RC–135 AIRCRAFT.

(a) LIMITATION.—Except as provided in subsection (b), none of the funds authorized to be appropriated by this Act or otherwise made available for fiscal year 2020 for the Air Force may be obligated or expended to retire, or prepare to retire, any RC–135 aircraft until a period of 60 days has elapsed following the date on which the Secretary of Defense certifies to the congressional defense committees that—

(1) technologies other than the RC–135 aircraft provide capacity and capabilities equivalent to the capacity and capabilities of the RC–135 aircraft; and

(2) the capacity and capabilities of such other technologies meet the requirements of combatant commanders with respect to indications and warning, intelligence preparation of the operational environment, and direct support for kinetic and non-kinetic operations.

(b) EXCEPTION.—The limitation in subsection (a) shall not apply to individual RC–135 aircraft that the Secretary of the Air Force determines, on a case-by-case basis, to be no longer mission capable because of mishaps, other damage, or being uneconomical to repair.

SEC. 127. REPORT ON AIRCRAFT FLEET OF THE CIVIL AIR PATROL.

(a) REPORT.—Not later than 90 days after the date of the enactment of this Act, the Secretary of the Air Force shall submit to the congressional defense committees a report on the aircraft fleet of the Civil Air Patrol.

(b) ELEMENTS.—The report required by subsection (a) shall include an assessment of each of the following:

(1) Whether the number of aircraft, types of aircraft, and operating locations that comprise the Civil Air Patrol fleet are suitable for the missions and responsibilities assigned to the Civil Air Patrol, including—

(A) flight proficiency and training;

(B) operational mission training; and

(C) support for cadet orientation and cadet flight training programs in the Civil Air Patrol wing of each State.

(2) The ideal overall size of the Civil Air Patrol aircraft fleet, including a description of the factors used to determine that ideal size.

(3) The process used by the Civil Air Patrol and the Air Force to determine the number and location of aircraft operating locations and whether State Civil Air Patrol wing commanders are appropriately involved in that process.

(4) The process used by the Civil Air Patrol, the Air Force, and other relevant entities to determine the type and number of aircraft that are needed to support the emergency, operational, and training missions of the Civil Air Patrol.

Subtitle D—Defense-wide, Joint, and Multiservice Matters

SEC. 131. ECONOMIC ORDER QUANTITY CONTRACTING AND BUY-TO-BUDGET ACQUISITION FOR F–35 AIRCRAFT PROGRAM.

(a) ECONOMIC ORDER QUANTITY CONTRACT AUTHORITY.—

(1) IN GENERAL.—Subject to paragraphs (2) through (5), from amounts made available for obligation under the F–35 aircraft program for fiscal year 2020, the Secretary of Defense may enter into one or more contracts, beginning with the fiscal year 2020 program year, for the procurement of economic order quantities of material and equipment that has completed formal hardware qualification testing for the F–35 aircraft program for use in procurement contracts to be awarded for such program during fiscal years 2021, 2022, and 2023.

(2) LIMITATION.—The total amount obligated under all contracts entered into under paragraph (1) shall not exceed $574,000,000.

(3) PRELIMINARY FINDINGS.—Before entering into a contract under paragraph (1), the Secretary of Defense shall make each of the following findings with respect to such contract:

(A) The use of such a contract will result in significant savings of the total anticipated costs of carrying out the program through annual contracts.

(B) The minimum need for the property to be procured is expected to remain substantially unchanged during the contemplated contract period in terms of production rate, procurement rate, and total quantities.

(C) There is a reasonable expectation that, throughout the contemplated contract period, the Secretary will request funding for the contract at the level required to avoid contract cancellation.

(D) That there is a stable, certified, and qualified design for the property to be procured and that the technical risks and redesign risks associated with such property are low.

(E) The estimates of both the cost of the contract and the anticipated cost avoidance through the use of an economic order quantity contract are realistic.

(F) Entering into the contract will promote the national security interests of the United States.

(4) CERTIFICATION REQUIREMENT.—Except as provided in paragraph (5), the Secretary of Defense may not enter into a contract under paragraph (1) until a period of 30 days has elapsed following the date on which the Secretary certifies to the congressional defense committees, in writing, that each of the following conditions is satisfied:

(A) A sufficient number of end items of the system being acquired under such contract have been delivered at or within the most recently available estimates of the program acquisition unit cost or procurement unit cost for such system to determine that the estimates of the unit costs are realistic.

(B) During the fiscal year in which such contract is to be awarded, sufficient funds will be available to perform the contract in such fiscal year, and the future-years defense program

submitted to Congress under section 221 of title 10, United States Code, for that fiscal year will include the funding required to execute the program without cancellation.

(C) The contract is a fixed-price type contract.

(D) The proposed contract provides for production at not less than minimum economic rates given the existing tooling and facilities.

(E) The Secretary has determined that each of the conditions described in subparagraphs (A) through (F) of paragraph (3) will be met by such contract and has provided the basis for such determination to the congressional defense committees.

(F) The determination under subparagraph (E) was made after the completion of a cost analysis performed by the Director of Cost Assessment and Program Evaluation for the purpose of section 2334 of title 10, United States Code, and the analysis supports that determination.

(5) EXCEPTION.—Notwithstanding paragraph (4), the Secretary of Defense may enter into a con-

tract under paragraph (1) on or after March 1, 2020, if—

(A) the Director of Cost Assessment and Program Evaluation has not completed a cost analysis of the preliminary findings made by the Secretary under paragraph (3) with respect to the contract;

(B) the Secretary certifies to the congressional defense committees, in writing, that each of the conditions described in subparagraphs (A) through (E) of paragraph (4) is satisfied; and

(C) a period of 30 days has elapsed following the date on which the Secretary submits the certification under subparagraph (B).

(b) BUY-TO-BUDGET ACQUISITION.—Subject to section 2308 of title 10, United States Code, using funds authorized to be appropriated by this Act for the procurement of F–35 aircraft, the Secretary of Defense may procure a quantity of F–35 aircraft in excess of the quantity authorized by this Act if such additional procurement does not require additional funds to be authorized to be appropriated because of production efficiencies or other cost reductions.

SEC. 132. PROGRAM REQUIREMENTS FOR THE F–35 AIRCRAFT PROGRAM.

(a) DESIGNATION OF MAJOR SUBPROGRAM.—In accordance with section 2430a of title 10, United States Code, the Secretary of Defense shall designate F–35 Block 4 as a major subprogram of the F–35 aircraft program.

(b) COST ESTIMATES.—

(1) JOINT COST ESTIMATE.—The Secretary of the Air Force and the Secretary of the Navy shall jointly develop a joint service cost estimate for the life-cycle costs of the F–35 aircraft program.

(2) INDEPENDENT COST ESTIMATE.—The Director of Cost Assessment and Program Evaluation shall develop an independent cost estimate for the life-cycle costs of the F–35 aircraft program.

(3) SUBMITTAL TO CONGRESS.—The cost estimates required under paragraphs (1) and (2) shall be submitted to the congressional defense committees not later than 180 days after the date of the enactment of this Act.

(c) REVISION OF PROGRAM ELEMENTS.—

(1) REVISION REQUIRED.—The Secretary of Defense shall revise the program elements applicable to the F–35 aircraft program as follows:

(A) RESEARCH AND DEVELOPMENT.—The program element for research and development

costs (as that element was specified in the materials submitted to Congress by the Secretary of Defense in support of the budget of the President for fiscal year 2020 (as submitted to Congress under section 1105(a) of title 31, United States Code)) shall be separated into the following individual program elements:

(i) System development and demonstration closeout.

(ii) F–35 Block 4.

(iii) Autonomic logistics information system development and upgrades.

(iv) Dual-capable aircraft.

(v) Test infrastructure.

(vi) Additional program budget elements, as required, for each modernization or upgrade effort initiated after F–35 Block 4.

(B) PROCUREMENT.—The program element for procurement costs (as that element was specified in the materials submitted to Congress by the Secretary of Defense in support of the budget of the President for fiscal year 2020 (as submitted to Congress under section 1105(a) of title 31, United States Code)) shall

be separated into the following individual program elements:

(i) Recurring fly-away and ancillary equipment.

(ii) Non-recurring fly-away and ancillary equipment.

(iii) F–35 Block 4.

(iv) Autonomic logistics information system.

(v) Dual-capable aircraft.

(vi) Engineering support.

(vii) Aircraft retrofit and modification.

(viii) Depot activation.

(ix) Initial spares.

(x) Production support.

(2) INCLUSION IN BUDGET MATERIALS.—The Secretary of Defense shall ensure that each revised program element described in paragraph (1) is included, with a specific dollar amount, in the materials relating to the F–35 aircraft program submitted to Congress by the Secretary of Defense in support of the budget of the President (as submitted to Congress under section 1105(a) of title 31, United States Code) for fiscal year 2021 and each

fiscal year thereafter until the date on which the F–35 aircraft program terminates.

(d) COMPTROLLER GENERAL REPORTS.—

(1) ANNUAL REPORT REQUIRED.—Not later than 30 days after the date on which the budget of the President is submitted to Congress under section 1105(a) of title 31, United States Code, for each of fiscal years 2021 through 2025, the Comptroller General of the United States shall submit to the congressional defense committees a report on the F–35 aircraft program.

(2) ELEMENTS.—Each report under paragraph (1) shall include, with respect to the F–35 aircraft program, the following:

(A) An assessment of the progress of manufacturing processes improvement under the program.

(B) The business case analysis of the Department of Defense for F–35 Block 4 follow-on modernization efforts.

(C) The progress and results of F–35 Block 4 and other follow-on modernization development and testing efforts.

(D) The Department's schedule for delivering software upgrades in six-month, scheduled increments.

(E) The progress and results of any other significant hardware development and fielding efforts necessary for F–35 Block 4.

(F) Any other issues the Comptroller General determines to be appropriate.

(e) F–35 BLOCK 4 DEFINED.—In this section, the term ''F–35 Block 4'' means Block 4 capability upgrades for the F–35 aircraft program as described in the Selected Acquisition Report for the program submitted to Congress in March 2019, pursuant to section 2432 of title 10, United States Code.

SEC. 133. REPORTS ON F–35 AIRCRAFT PROGRAM.

(a) REPORT ON F–35 RELIABILITY AND MAINTAINABILITY METRICS.—The Secretary of Defense shall submit to the congressional defense committees a report on the reliability and maintainability metrics for the F–35 aircraft. The report shall include the following:

(1) The results of a review and assessment, conducted by the program office for the F–35 aircraft program, of the reliability and maintainability metrics for the aircraft as set forth in the most re-

cent operational requirements document for the program.

(2) A determination of whether the reliability and maintainability metrics for the aircraft, as set forth in the most recent operational requirements document for the program, are feasible and attainable, and what changes, if any, will be made to update the metrics.

(3) A certification that the program office for the F–35 aircraft program has revised the reliability and maintainability improvement plan for the aircraft—

(A) to identify specific and measurable reliability and maintainability objectives in the improvement plan guidance; and

(B) to identify and document which projects included in the improvement plan will achieve the objectives identified under subparagraph (A).

(b) REPORT ON F–35 BLOCK 4.—

(1) IN GENERAL.—The Secretary of Defense shall submit to the congressional defense committees a report on F–35 Block 4. The report shall include the following:

(A) The results of an independent cost estimate for F–35 Block 4 conducted by the Director of Cost Assessment and Program Evaluation.

(B) A test and evaluation master plan, approved by the Director of Operational Test and Evaluation, that addresses testing resources, testing aircraft shortfalls, and testing funding.

(C) A technology readiness assessment of all technologies and capabilities planned for F–35 Block 4 conducted by the Under Secretary of Defense for Research and Engineering.

(D) A review of the feasibility of the continuous capability development and delivery strategy for fielding F–35 Block 4 technologies conducted by the Under Secretary of Defense for Research and Engineering.

(2) F–35 BLOCK 4 DEFINED.—In this subsection, the term ''F–35 Block 4'' has the meaning given that term in section 132(e).

(c) REPORT ON F–35 AUTONOMIC LOGISTICS INFORMATION SYSTEM.—The Secretary of Defense shall submit to the congressional defense committees a report on the autonomic logistics information system of the F–35 air-

craft. The report shall include a description of each of the following:

(1) All shortfalls, capability gaps, and deficiencies in the system that have been identified as of the date of the enactment of this Act.

(2) The strategy and performance requirements that will be implemented to improve the system.

(3) The strategy, implementation plan, schedule, and estimated costs of developing and fielding—

(A) the next generation of the system; or

(B) future increments of the system.

(d) DEADLINE FOR SUBMITTAL.—The reports required under subsections (a) through (c) shall be submitted to the congressional defense committees not later than 180 days after the date of the enactment of this Act.

TITLE II—RESEARCH, DEVELOPMENT, TEST, AND EVALUATION

Subtitle A—Authorization of Appropriations

SEC. 201. AUTHORIZATION OF APPROPRIATIONS.

Funds are hereby authorized to be appropriated for fiscal year 2020 for the use of the Department of Defense for research, development, test, and evaluation, as specified in the funding table in section 4201.

Subtitle B—Program Requirements, Restrictions, and Limitations

SEC. 211. PROGRAM ON ENHANCEMENT OF PREPARATION OF DEPENDENTS OF MEMBERS OF ARMED FORCES FOR CAREERS IN SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS.

(a) PROGRAM REQUIRED.—Chapter 111 of title 10, United States Code, is amended by inserting after section 2192a the following new section:

"§ 2192b. Program on enhancement of preparation of dependents of members of armed forces for careers in science, technology, engineering, and mathematics

"(a) PROGRAM REQUIRED.—The Secretary of Defense shall carry out a program to—

"(1) enhance the preparation of students at covered schools for careers in science, technology, engineering, and mathematics; and

"(2) provide assistance to teachers at covered schools to enhance preparation described in paragraph (1).

"(b) COORDINATION.—In carrying out the program, the Secretary shall coordinate with the following:

"(1) The Secretaries of the military departments.

"(2) The Secretary of Education.

"(3) The National Science Foundation.

"(4) Other organizations as the Secretary of Defense considers appropriate.

"(c) ACTIVITIES.—Activities under the program may include the following:

"(1) Establishment of targeted internships and cooperative research opportunities at defense laboratories and other technical centers for students and teachers at covered schools.

"(2) Establishment of scholarships and fellowships for students at covered schools.

"(3) Efforts and activities that improve the quality of science, technology, engineering, and mathematics educational and training opportunities for students and teachers at covered schools, including with respect to improving the development of curricula at covered schools.

"(4) Development of travel opportunities, demonstrations, mentoring programs, and informal science education for students and teachers at covered schools.

"(d) METRICS.—The Secretary shall establish outcome-based metrics and internal and external assessments to evaluate the merits and benefits of activities conducted under the program with respect to the needs of the Department of Defense.

"(e) COVERED SCHOOLS DEFINED.—In this section, the term 'covered schools' means elementary or secondary schools at which the Secretary determines a significant number of dependents of members of the armed forces are enrolled.".

(b) CLERICAL AMENDMENT.—The table of sections at the beginning of such chapter is amended by inserting after the item relating to section 2192a the following new item:

"2192b. Program on enhancement of preparation of dependents of members of armed forces for careers in science, technology, engineering, and mathematics.".

(c) CONFORMING REPEAL.—Section 233 of the Carl Levin and Howard P. "Buck" McKeon National Defense Authorization Act for Fiscal Year 2015 (Public Law 113–291; 10 U.S.C. 2193a note) is repealed.

SEC. 212. TEMPORARY INCLUSION OF JOINT ARTIFICIAL INTELLIGENCE CENTER OF THE DEPARTMENT OF DEFENSE IN PERSONNEL MANAGEMENT AUTHORITY TO ATTRACT EXPERTS IN SCIENCE AND ENGINEERING.

(a) IN GENERAL.—Subsection (a) of section 1599h of title 10, United States Code, is amended by adding at the end the following new paragraph:

"(6) JOINT ARTIFICIAL INTELLIGENCE CENTER.—The Director of the Joint Artificial Intelligence Center may carry out a program of personnel management authority provided in subsection (b) in order to facilitate recruitment of eminent experts in science or engineering for the Center. The authority to carry out the program under this paragraph shall terminate on December 31, 2024.".

(b) SCOPE OF APPOINTMENT AUTHORITY.—Subsection (b)(1) of such section is amended—

(1) in subparagraph (D), by striking "and" at the end;

(2) in subparagraph (E), by adding "and" at the end; and

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

"(F) in the case of the Joint Artificial Intelligence Center, appoint scientists and engi-

neers to a total of not more than 5 scientific and engineering positions in the Center;''.

(c) EXTENSION OF TERMS OF APPOINTMENT.—Subsection (c)(2) of such section is amended by striking ''or the Defense Innovation Unit Experimental'' and inserting ''the Defense Innovation Unit Experimental, or the Joint Artificial Intelligence Center''.

SEC. 213. JOINT HYPERSONICS TRANSITION OFFICE.

Section 218 of the John Warner National Defense Authorization Act for Fiscal Year 2007 (Public Law 109–364; 10 U.S.C. 2358 note) is amended—

(1) in subsection (a), by striking ''the program required under subsection (b), and shall'' and inserting ''the program and activities described in subsections (d) through (g), and shall'';

(2) by redesignating subsections (b) through (e) as subsections (d) through (g), respectively;

(3) by inserting after subsection (a) the following new subsections:

''(b) DIRECTOR.—There is a Director of the Office (referred to in this section as the 'Director'). The Director shall be appointed by the Secretary of Defense and shall serve as the senior official in the Department of Defense with principal responsibility for carrying out the program and activities described in subsections (d) through (g).

The Director shall report to the Assistant Director for Hypersonics within the Office of the Under Secretary of Defense for Research and Engineering.

''(c) UNIVERSITY CONSORTIUM.—

''(1) DESIGNATION.—The Director shall designate a consortium of institutions of higher education (as that term is defined in section 101 of the Higher Education Act of 1965 (20 U.S.C. 1001)) to lead foundational hypersonic research in research areas that the Director determines to be appropriate for the Department of Defense.

''(2) AVAILABILITY OF INFORMATION.—The Director shall ensure that the research results and reports of the consortium are made available across the Federal Government, the private sector, and academia, consistent with appropriate security classification guidance.'';

(4) in subsection (d), by striking ''The Office'' and inserting ''The Director'';

(5) in subsection (e), as so redesignated—

(A) in the matter preceding paragraph (1), by striking ''program required by subsection (b), the Office'' and inserting ''program required by subsection (d), the Director'';

(B) in paragraph (3)(A), by striking ''private sector'' and inserting ''private-sector academic''; and

(C) in paragraph (5), by striking ''certified under subsection (e) as being consistent with the roadmap under subsection (d)'' and inserting ''certified under subsection (g) as being consistent with the roadmap under subsection (f)'';

(6) in subsection (f), as so redesignated—

(A) in paragraph (3)—

(i) in subparagraph (C)—

(I) in clause (i), by striking ''and'' at the end;

(II) in clause (ii), by striking the period at the end and inserting ''; and''; and

(III) by adding at the end the following new clause:

''(iii) the activities and resources of the consortium designated by the Director under subsection (c) to be leveraged by the Department to meet such goals.''; and

(ii) in subparagraph (D), by striking ''facilities'' both places it appears and inserting ''facilities and infrastructure''; and

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

''(4) SUBMITTAL TO CONGRESS.—

''(A) INITIAL SUBMISSION.—Not later than 180 days after the date of the enactment of this paragraph, the Secretary of Defense shall submit to the congressional defense committees the roadmap developed under paragraph (1).

''(B) SUBSEQUENT SUBMISSIONS.—The Secretary of Defense shall submit to the congressional defense committees each roadmap revised under paragraph (1) together with the budget submitted to Congress under section 1105 of title 31, United States Code, for the fiscal year concerned.'';

(7) in subsection (g), as so redesignated—

(A) by striking ''subsection (d)'' each place it appears and inserting ''subsection (f)'';

(B) in paragraph (1)—

(i) in the matter preceding subparagraph (A), by striking ''The Office'' and insert ''The Director'';

(ii) in subparagraph (A) by striking ''research, development, test, and evaluation and demonstration programs within the Department of Defense'' and inserting ''defense-wide research, development, test, and evaluation and demonstration programs''; and

(iii) in subparagraph (B), by striking ''the hypersonics'' and inserting ''all hypersonics'';

(C) in paragraph (2), by striking ''The Office'' and inserting ''The Director''; and

(D) in paragraph (3), by striking ''2016'' and inserting ''2026''; and

(8) by adding at the end the following new subsection:

''(h) FUNDING.—The Secretary may make available such funds to the Office for basic research, applied research, advanced technology development, prototyping, studies and analyses, and organizational support as the Secretary considers appropriate to support the efficient and effective development of hypersonics technologies and transition of those systems and technologies into acquisition programs or operational use.''.

SEC. 214. MODIFICATION OF PROOF OF CONCEPT COMMERCIALIZATION PROGRAM.

(a) EXTENSION OF PROGRAM.—Section 1603(g) of the National Defense Authorization Act for Fiscal Year 2014 (Public Law 113–66; 10 U.S.C. 2359 note) is amended by striking ''2019'' and inserting ''2024''.

(b) ADDITIONAL IMPROVEMENTS.—Section 1603 of such Act, as amended by subsection (a), is further amended—

(1) in the section heading, by inserting ''**OF DUAL-USE TECHNOLOGY**'' after ''**COMMERCIALIZATION**'';

(2) in subsection (a)—

(A) by inserting ''of Dual-Use Technology'' before ''Program''; and

(B) by inserting ''with a focus on priority defense technology areas that attract public and private sector funding, as well as private sector investment capital, including from venture capital firms in the United States,'' before ''in accordance'';

(3) in subsection (c)(4)(A)(iv), by inserting '', which may include access to venture capital'' after ''award'';

(4) by striking subsection (d);

(5) by redesignating subsection (e) as subsection (d);

(6) by striking subsection (f); and

(7) by adding at the end the following new subsection (e):

''(e) AUTHORITIES.—In carrying out this section, the Secretary may use the following authorities:

''(1) Section 1599g of title 10 of the United States Code, relating to public-private talent exchanges.

''(2) Section 2368 of such title, relating to Centers for Science, Technology, and Engineering Partnerships.

''(3) Section 2374a of such title, relating to prizes for advanced technology achievements.

''(4) Section 2474 of such title, relating to Centers of Industrial and Technical Excellence.

''(5) Section 2521 of such title, relating to the Manufacturing Technology Program.

''(6) Section 225 of the National Defense Authorization Act for Fiscal Year 2018 (Public Law 115–91; 10 U.S.C. 2359 note).

''(7) Section 1711 of such Act (Public Law 115–91; 10 U.S.C. 2505 note), relating to a pilot

program on strengthening manufacturing in the defense industrial base.

''(8) Section 12 of the Stevenson-Wydler Technology Innovation Act of 1980 (15 U.S.C. 3710a) and section 6305 of title 31, United States Code, relating to cooperative research and development agreements.''.

SEC. 215. CONTRACT FOR NATIONAL SECURITY RESEARCH STUDIES.

(a) CONTRACT AUTHORITY.—The Secretary of Defense, acting through the Under Secretary of Defense for Acquisition and Sustainment, shall seek to enter into a contract with a federally funded research and development center under which the private scientific advisory group known as ''JASON'' will provide national security research studies to the Department of Defense.

(b) TERMS OF CONTRACT.—The contract entered into under subsection (a) shall be an indefinite delivery-indefinite quantity contract with terms substantially similar to the terms of the contract in effect before March 28, 2019, under which JASON provided national security research studies to the Department of Defense (solicitation number HQ0034-19-R-0011 for JASON National Security Research Studies).

(c) TERMINATION.—The Secretary of Defense may not terminate the contract under subsection (a) until a period of 90 days has elapsed following the date on which the Secretary notifies the congressional defense committees of the intent of the Secretary to terminate the contract.

SEC. 216. JASON SCIENTIFIC ADVISORY GROUP.

Pursuant to section 173 of title 10, United States Code, the Secretary of Defense shall seek to engage the members of the private scientific advisory group known as ''JASON'' as advisory personnel to provide advice, on an ongoing basis, on matters involving science, technology, and national security, including methods to defeat existential and technologically-amplified threats to national security.

SEC. 217. DIRECT AIR CAPTURE AND BLUE CARBON REMOVAL TECHNOLOGY PROGRAM.

(a) PROGRAM AUTHORIZED.—

(1) IN GENERAL.—The Secretary of Defense, in coordination with the Secretary of Homeland Security, the Secretary of Energy, and the heads of such other Federal agencies as the Secretary of Defense considers appropriate, may carry out a program on research, development, testing, evaluation, study,

and demonstration of technologies related to blue carbon capture and direct air capture.

(2) PROGRAM GOALS.—The goals of the program established under paragraph (1) are as follows:

(A) To develop technologies that capture carbon dioxide from seawater and the air to turn such carbon dioxide into clean fuels to enhance fuel and energy security.

(B) To develop and demonstrate technologies that capture carbon dioxide from seawater and the air to reuse such carbon dioxide to create products for military uses.

(C) To develop direct air capture technologies for use—

(i) at military installations or facilities of the Department of Defense; or

(ii) in modes of transportation by the Navy or the Coast Guard.

(3) PHASES.—The program established under paragraph (1) shall be carried out in two phases as follows:

(A) The first phase may consist of research and development and shall be carried out as described in subsection (b).

(B) The second phase shall consist of testing and evaluation and shall be carried out as described in subsection (c), if the Secretary determines that the results of the research and development phase justify implementing the testing and evaluation phase.

(4) DESIGNATION.—The program established under paragraph (1) shall be known as the ''Direct Air Capture and Blue Carbon Removal Technology Program'' (in this section referred to as the ''Program'').

(b) RESEARCH AND DEVELOPMENT PHASE.—

(1) IN GENERAL.—During the research and development phase of the Program, the Secretary of Defense may conduct research and development in pursuit of the goals set forth in subsection (a)(2).

(2) DIRECT AIR CAPTURE.—The research and development phase of the Program may include, with respect to direct air capture, a front end engineering and design study that includes an evaluation of direct air capture designs to produce fuel for use—

(A) at military installations or facilities of the Department of Defense; or

(B) in modes of transportation by the Navy or the Coast Guard.

(3) DURATION.—The Secretary may carry out the research and development phase of the Program commencing not later than 90 days after the date of the enactment of this Act.

(4) GRANTS AUTHORIZED.—The Secretary may carry out the research and development phase of the Program through the award of grants to private persons and eligible laboratories.

(5) REPORT REQUIRED.—Not later than 180 days after the date of the completion of the research and development phase of the Program, the Secretary shall submit to Congress a report on the research and development carried out under the Program.

(c) TESTING AND EVALUATION PHASE.—

(1) IN GENERAL.—During the testing and evaluation phase of the Program, the Secretary may, in pursuit of the goals set forth in subsection (a)(2), conduct tests and evaluations of the technologies researched and developed during the research and development phase of the Program.

(2) DIRECT AIR CAPTURE.—The testing and evaluation phase of the Program may include demonstration projects for direct air capture to produce fuel for use—

(A) at military installations or facilities of the Department of Defense; or

(B) in modes of transportation by the Navy or the Coast Guard.

(3) DURATION.—Subject to subsection (a)(3)(B), the Secretary may carry out the testing and evaluation phase of the Program commencing on the date of the completion of the research and development phase described in subsection (b), except that the testing and evaluation phase of the Program with respect to direct air capture may commence at such time after a front end engineering and design study demonstrates to the Secretary that commencement of such phase is appropriate.

(4) GRANTS AUTHORIZED.—The Secretary may carry out the testing and evaluation phase of the Program through the award of grants to private persons and eligible laboratories.

(5) LOCATIONS.—The Secretary shall carry out the testing and evaluation phase of the Program at military installations or facilities of the Department of Defense.

(6) REPORT REQUIRED.—Not later than September 30, 2026, the Secretary shall submit to Congress a report on the findings of the Secretary with

respect to the effectiveness of the technologies tested and evaluated under the Program.

(d) DEFINITIONS.—In this section:

(1) BLUE CARBON CAPTURE.—The term ''blue carbon capture'' means the removal of dissolved carbon dioxide from seawater through engineered or inorganic processes, including filters, membranes, or phase change systems.

(2) DIRECT AIR CAPTURE.—

(A) IN GENERAL.—The term ''direct air capture'', with respect to a facility, technology, or system, means that the facility, technology, or system uses carbon capture equipment to capture carbon dioxide directly from the air.

(B) EXCLUSION.—The term ''direct air capture'' does not include any facility, technology, or system that captures carbon dioxide—

(i) that is deliberately released from a naturally occurring subsurface spring; or

(ii) using natural photosynthesis.

(3) ELIGIBLE LABORATORY.—The term ''eligible laboratory'' means—

(A) a National Laboratory (as defined in section 2 of the Energy Policy Act of 2005 (42 U.S.C. 15801)); or

(B) the science and technology reinvention laboratories (as designated under section 1105 of the National Defense Authorization Act for Fiscal Year 2010 (Public Law 111–84 ; 10 U.S.C. 2358 note));

(C) the Major Range and Test Facility Base (as defined in section 2358a(f)(3) of title 10, United States Code); and

(D) other facilities that support the research development, test, and evaluation activities of the Department of Defense or Department of Energy.

SEC. 218. FOREIGN MALIGN INFLUENCE OPERATIONS RESEARCH PROGRAM.

(a) PROGRAM REQUIRED.—The Secretary of Defense, acting through the Under Secretary of Defense for Research and Engineering, shall carry out a research program on foreign malign influence operations research as part of the university and other basic research programs of the Department of Defense (such as the Minerva Research Initiative).

(b) PROGRAM OBJECTIVES.—The objectives of the research program shall be the following:

(1) To enhance the understanding of foreign malign influence operations, including activities conducted on social media platforms.

(2) To facilitate the compilation, analysis, and storage of publicly available or voluntarily provided indicators of foreign malign influence operations, including those appearing on social media platforms, for the purposes of additional research.

(3) To promote the development of best practices relating to tactics, techniques, procedures, and technology for the protection of the privacy of the customers and users of the social media platforms and the proprietary information of the social media companies in conducting research and analysis or compiling and storing indicators and key trends of foreign malign influence operations on social media platforms.

(4) To promote collaborative research and information exchange with other relevant entities within the Department and with other agencies relating to foreign malign influence operations.

(c) PROGRAM ACTIVITIES.—In order to achieve the objectives specified in subsection (b), the Secretary is authorized to carry out the following activities:

(1) The Secretary may award research grants to eligible individuals and entities on a competitive basis.

(2) The Secretary may award financial assistance to graduate students on a competitive basis.

(d) REPORT.—Not later than March 1, 2020, the Secretary of Defense shall submit to the congressional defense committees a report on the progress of the Secretary in carrying out the research program under this section, including a description of the activities and research conducted as part of the program.

SEC. 219. SENSOR DATA INTEGRATION FOR FIFTH GENERATION AIRCRAFT.

(a) F–35 SENSOR DATA.—The Secretary of Defense shall ensure that—

(1) information collected by the passive and active on-board sensors of the F–35 Joint Strike Fighter aircraft is capable of being shared, in real time, with joint service users in cases in which the Joint Force Commander determines that sharing such information would be operationally advantageous; and

(2) the Secretary has developed achievable, effective, and suitable concepts and supporting technical architectures to collect, store, manage, and disseminate information collected by such sensors.

(b) GAO STUDY AND REPORT.—

(1) STUDY.—The Comptroller General of the United States shall conduct a study of the sensor data collection and dissemination capability of fifth generation aircraft of the Department of Defense.

(2) ELEMENTS.—The study required by paragraph (1) shall include an assessment of the following—

(A) the extent to which the Department has established doctrinal, organizational, or technological methods of managing the large amount of sensor data that is currently collected and which may be collected by existing and planned advanced fifth generation aircraft;

(B) the status of the existing sensor data collection, storage, dissemination, and management capability and capacity of fifth generation aircraft, including the F–35, the F–22, and the B–21; and

(C) the ability of the F–35 aircraft and other fifth generation aircraft to share informa-

tion collected by the aircraft in real-time with other joint service users as described in subsection (a)(1).

(3) STUDY RESULTS.—

(A) INTERIM BRIEFING.—Not later than 180 days after the date of the enactment of this Act, the Comptroller General shall provide to the congressional defense committees a briefing on the preliminary findings of the study conducted under this subsection.

(B) FINAL RESULTS.—The Comptroller General shall provide the final results of the study conducted under this subsection to the congressional defense committees at such time and in such format as is mutually agreed upon by the committees and the Comptroller General at the time of the briefing under subparagraph (A).

SEC. 220. DOCUMENTATION RELATING TO ADVANCED BATTLE MANAGEMENT SYSTEM.

(a) DOCUMENTATION REQUIRED.—Not later than the date specified in subsection (b), the Secretary of the Air Force shall submit to the congressional defense committees the following documentation relating to the Advanced Battle Management System:

(1) A list that identifies each program, project, and activity that comprises the System.

(2) The final analysis of alternatives for the System.

(3) An acquisition strategy for the System, including—

(A) an outline of each increment of the System; and

(B) the date on which each increment will reach initial operational capability and full operational capability, respectively.

(4) A capability development document for the System.

(5) An acquisition program baseline for the System.

(6) A test and evaluation master plan for the System.

(7) A life-cycle sustainment plan for the System.

(b) DATE SPECIFIED.—The date specified in this subsection is the earlier of—

(1) the date that is 180 days after the date on which the final analysis of alternatives for the Advanced Battle Management System is completed; or

(2) April 1, 2020.

(c) ADVANCED BATTLE MANAGEMENT SYSTEM DEFINED.—In this section, the term ''Advanced Battle Management System'' means the Advanced Battle Management System of Systems capability of the Air Force, including each program, project, and activity that comprises such capability.

SEC. 221. DOCUMENTATION RELATING TO B–52 COMMERCIAL ENGINE REPLACEMENT PROGRAM.

(a) DOCUMENTATION REQUIRED.—The Secretary of the Air Force shall submit to the congressional defense committees the following documentation relating to the B–52 commercial engine replacement program of the Air Force:

(1) A capability development document for the program, approved by the Secretary of the Air Force.

(2) A test and evaluation master plan for the program, approved by the Director of Operational Test and Evaluation.

(b) LIMITATION.—Of the funds authorized to be appropriated by this Act or otherwise made available for fiscal year 2020 for the Air Force, not more than 75 percent may be obligated or expended until the date on which the Secretary of the Air Force submits to the congressional

defense committees the documentation required under subsection (a).

SEC. 222. DIVERSIFICATION OF THE SCIENCE, TECHNOLOGY, RESEARCH, AND ENGINEERING WORKFORCE OF THE DEPARTMENT OF DEFENSE.

(a) ASSESSMENT REQUIRED.—

(1) IN GENERAL.—The Secretary of Defense, acting through the Under Secretary of Defense for Research and Engineering, shall conduct an assessment of critical skillsets required across the science, technology, research, and engineering workforce of the Department of Defense to support emerging and future warfighter technologies.

(2) ELEMENTS.—The assessment required by paragraph (1) shall include analysis of the following:

(A) The percentage of women and minorities employed in the workforce as of the date of the assessment.

(B) The percentage of grants, fellowships, and funding awarded to minorities and women.

(C) The effectiveness of existing hiring and attraction incentives, other encouragements, and required service agreement commitments in attracting and retaining minorities and women

in the workforce of the Department after such individuals complete work on Department-funded research projects, grant projects, fellowships, and STEM programs.

(D) The geographical diversification of the workforce and the operating costs of the workforce across various geographic regions.

(b) PLAN REQUIRED.—

(1) IN GENERAL.—Based on the results of the assessment conducted under subsection (a), the Secretary of Defense, acting through the Under Secretary of Defense for Research and Engineering, shall develop and implement a plan to diversify and strengthen the science, technology, research, and engineering workforce of the Department of Defense.

(2) ELEMENTS.—The plan required by paragraph (1) shall—

(A) align with science and technology strategy priorities of the Department of Defense, including the emerging and future warfighter technology requirements identified by the Department;

(B) except as provided in subsection (c)(2), set forth steps for the implementation of each recommendation included in the 2013 report of

the RAND corporation titled ''First Steps Toward Improving DoD STEM Workforce Diversity'';

(C) harness the full range of the Department's STEM programs and other Department-sponsored programs to develop and attract top talent;

(D) use existing authorities to attract and retain students, academics, and other talent;

(E) establish and use contracts, agreements, or other arrangements with institutions of higher education (as defined in section 101 of the Higher Education Act of 1965 (20 U.S.C. 1001)), including historically black colleges and universities and other minority-serving institutions (as described in section 371(a) of such Act (20 U.S.C. 1067q(a)) to enable easy and efficient access to research and researchers for Government-sponsored basic and applied research and studies at each institution, including contracts, agreements, and other authorized arrangements such as those authorized under—

(i) section 217 of the National Defense Authorization Act for Fiscal Year

2018 (Public Law 115–91; 10 U.S.C. 2358 note); and

(ii) such other authorities as the Secretary determines to be appropriate; and

(F) include recommendations for changes in authorities, regulations, policies, or any other relevant areas, that would support the achievement of the goals set forth in the plan.

(3) SUBMITTAL TO CONGRESS.—Not later than one year after the date of the enactment of this Act, the Secretary of Defense shall submit to the congressional defense committees a report that includes—

(A) the plan developed under paragraph (1); and

(B) with respect to each recommendation described in paragraph (2)(B) that the Secretary implemented or expects to implement—

(i) a summary of actions that have been taken to implement the recommendation; and

(ii) a schedule, with specific milestones, for completing the implementation of the recommendation.

(c) DEADLINE FOR IMPLEMENTATION.—

(1) IN GENERAL.—Except as provided in paragraph (2), not later than 18 months after the date of the enactment of this Act the Secretary of Defense shall carry out activities to implement the plan developed under subsection (b).

(2) EXCEPTION FOR IMPLEMENTATION OF CERTAIN RECOMMENDATIONS.—

(A) DELAYED IMPLEMENTATION.—The Secretary of Defense may commence implementation of a recommendation described in subsection (b)(2)(B) after the date specified in paragraph (1) if the Secretary provides the congressional defense committees with a specific justification for the delay in implementation of such recommendation on or before such date.

(B) NONIMPLEMENTATION.—The Secretary of Defense may opt not to implement a recommendation described in subsection (b)(2)(B) if the Secretary provides to the congressional defense committees, on or before the date specified in paragraph (1)—

(i) a specific justification for the decision not to implement the recommendation; and

(ii) a summary of the alternative actions the Secretary plans to take to address the issues underlying the recommendation.

(d) STEM DEFINED.—In this section, the term ''STEM'' means science, technology, engineering, and mathematics.

SEC. 223. POLICY ON THE TALENT MANAGEMENT OF DIGITAL EXPERTISE AND SOFTWARE PROFESSIONALS.

(a) POLICY.—

(1) IN GENERAL.—It shall be a policy of the Department of Defense to promote and maintain digital expertise and software development as core competencies of civilian and military workforces of the Department, and as a capability to support the National Defense Strategy, which policy shall be achieved by—

(A) the recruitment, development, and incentivization of retention in and to the civilian and military workforce of the Department of individuals with aptitude, experience, proficient expertise, or a combination thereof in digital expertise and software development;

(B) at the discretion of the Secretaries of the military departments, the development and maintenance of civilian and military career tracks related to digital expertise, and related digital competencies for members of the Armed Forces, including the development and maintenance of training, education, talent management, incentives, and promotion policies in support of members at all levels of such career tracks; and

(C) the development and application of appropriate readiness standards and metrics to measure and report on the overall capability, capacity, utilization, and readiness of digital engineering professionals to develop and deliver operational capabilities and employ modern business practices.

(2) DEFINITIONS.—For purposes of this section, ''digital engineering'' is the discipline and set of skills involved in the creation, processing, transmission, integration, and storage of digital data, (including but not limited to data science, machine learning, software engineering, software product management, and artificial intelligence product management).

(b) RESPONSIBILITY.—

(1) APPOINTMENT OF OFFICER.—Not later than 270 days after the date of enactment of this Act, the Secretary of Defense shall appoint a civilian official responsible for the development and implementation of the policy set forth in subsection (a). The official shall be known as the ''Chief Digital Engineering Recruitment and Management Officer of the Department of Defense'' (in this section referred to as the ''Officer'').

(2) EXPIRATION OF APPOINTMENT.—The appointment of the Officer under paragraph (1) shall expire on September 30, 2029.

(c) DUTIES.—In developing and providing for the discharge of the policy set forth in subsection (a), the Officer shall work with the Assistant Secretaries of the military departments for Manpower and Reserve Affairs to carry out the following:

(1) Develop for, and enhance within, the recruitment programs of each Armed Force various core initiatives, programs, activities, and mechanisms, tailored to the unique needs of each Armed Force, to identify and recruit civilian employees and members of the Armed Forces with demonstrated aptitude, interest, and proficiency in digital engi-

neering, and in science, technology, engineering, and mathematics (STEM) generally, including initiatives, programs, activities, and mechanisms to target populations of individuals not typically aware of opportunities in the Department of Defense for a digital engineering career.

(2) Identify and share with the military departments best practices around the development of flexible career tracks and identifiers for digital engineering and related digital competencies and meaningful opportunities for career development, talent management, and promotion within such career tracks.

(3) Develop and maintain education, training, doctrine, rotational opportunities, and professional development activities to support the civilian and military digital engineering workforce.

(4) Coordinate and synchronize digital force management activities throughout the Department of Defense, advise the Secretary of Defense on all matters pertaining to the health and readiness of digital forces, convene a Department-wide executive steering group, and submit to Congress an annual report on the readiness of digital forces and progress

toward achieving the policy set forth in subsection (a).

(5) Create a Department-wide mechanism to track digital expertise in the workforce, develop and maintain organizational policies, strategies, and plans sufficient to build, maintain, and refresh internal capacity at scale, and report to the Secretary quarterly on the health and readiness the digital engineering workforce.

(6) Assist the military departments in designing, developing, and executing programs and incentives to retain, track, and oversee digital expertise among civilian employees of the Department and members of the Armed Forces on active duty.

(7) At the request of the Chief of Staff of an Armed Force, or the head of another component or element of the Department, undertake an executive search for key leadership positions in digital engineering in such Armed Force, component, or element, and develop and deploy agile hiring processes to fill such positions.

(8) Identify necessary changes in authorities, policies, resources, or a combination thereof to further the policy set forth in subsection (a), and submit to Congress a report on such changes.

(d) IMPLEMENTATION PLAN.—Not later than May 1, 2020, the Secretary of Defense shall submit to the Committees on Armed Services of the House of Representatives and the Senate a plan to carry out the requirements of this section. The plan shall include the following:

(1) An assessment of progress of the Secretary in recruiting an individual to serve as the Officer required to be appointed under subsection (b).

(2) A timeline for implementation of the requirements of this section, including input from each military department on its unique timeline.

(3) Recommendations for any legislative or administrative action required to meet the requirements of this section.

SEC. 224. DEVELOPMENT AND IMPLEMENTATION OF DIGITAL ENGINEERING CAPABILITY AND AUTOMATED SOFTWARE TESTING AND EVALUATION.

(a) CAPABILITY REQUIRED.—

(1) IN GENERAL.—The Under Secretary of Defense for Research and Engineering and the Director of Operational Test and Evaluation shall jointly design, develop, and implement a digital engineering capability and infrastructure—

(A) to provide technically accurate digital models to the acquisition process; and

(B) to serve as the foundation for automated approaches to software testing and evaluation.

(2) ELEMENTS.—The capability developed under subsection (a) shall consist of digital platforms that may be accessed by individuals throughout the Department who have responsibilities relating to the development, testing, evaluation, and operation of software. The platforms shall enable such individuals to—

(A) use systems-level digital representations and simulation environments;

(B) perform automated software testing based on criteria developed, in part, in consultation with the Under Secretary's developmental test organization and the Director to satisfy program operational test requirements; and

(C) perform testing on a repeatable, frequent, and iterative basis.

(b) PILOT PROGRAMS.—

(1) IN GENERAL.—The Under Secretary and Director shall carry out pilot programs to dem-

onstrate whether it is possible for automated testing to satisfy—

(A) developmental test requirements for the software-intensive programs of the Department of Defense; and

(B) the Director's operational test requirements for such programs.

(2) NUMBER OF PILOT PROGRAMS.—The Under Secretary and Director shall carry out not fewer than four and not more than ten pilot programs under this section.

(3) REQUIREMENTS.—For each pilot program carried out under paragraph (1), the Under Secretary and Director shall—

(A) conduct a cost-benefit analysis that compares the costs and benefits of the digital engineering and automated testing approach of the pilot program to the nondigital engineering based approach typically used by the Department of Defense;

(B) ensure that the intellectual property strategy for the pilot program supports the data required to operate the models used under the program; and

(C) develop a workforce and infrastructure plan to support any new policies and guidance implemented during the pilot program or after the completion of the program.

(4) CONSIDERATIONS.—In carrying out paragraph (1), the Under Secretary and Director may consider using the authorities provided under sections 873 and 874 of the National Defense Authorization Act for Fiscal Year 2018 (Public Law 115–91).

(5) REPORT.—Not later than 90 days after the date of the enactment of this Act, the Under Secretary and Director shall submit to the congressional defense committees a report that includes a description of—

(A) each pilot program that will be carried out under paragraph (1);

(B) software programs that may be used as part of each pilot program;

(C) selection criteria and intellectual property and licensing issues relating to such software programs;

(D) any recommendations for changes to existing law to facilitate the implementation of the pilot programs; and

(E) such other matters as the Under Secretary and Director determine to be relevant.

(6) TERMINATION.—Each pilot program carried out under paragraph (1) shall terminate not later than December 31, 2025.

(c) POLICIES AND GUIDANCE REQUIRED.—

(1) IN GENERAL.—The Under Secretary and the Director shall issue policies and guidance to implement—

(A) the digital engineering capability and infrastructure developed under subsection (a); and

(B) the pilot programs carried out under subsection (b).

(2) ELEMENTS.—The policies and guidance issued under paragraph (1) shall—

(A) specify procedures for developing and maintaining digital engineering models and the automated testing of software throughout the program life cycle;

(B) include processes for automated testing of developmental test requirements and operational test requirements;

(C) include processes for automated security testing, including—

(i) penetration testing; and

(ii) vulnerability scanning;

(D) include processes for security testing performed by individuals, including red team assessments with zero-trust assumptions;

(E) encourage the use of an automated testing capability instead of acquisition-related processes that require artifacts to be created for acquisition oversight but are not used as part of the engineering process;

(F) support the high-confidence distribution of software to the field on a time-bound, repeatable, frequent, and iterative basis;

(G) provide technically accurate models, including models of system design and performance, to the acquisition process; and

(H) ensure that models are continually updated with the newest design, performance, and testing data.

(d) CONSULTATION.—In carrying out subsections (a) through (c), the Under Secretary and Director shall consult with—

(1) the Under Secretary of Defense for Acquisition and Sustainment;

(2) the service acquisition executives;

(3) the service testing commands; and

(4) the Defense Digital Service.

(e) REPORT REQUIRED.—Not later one year after the date of the enactment of this Act, the Under Secretary and Director shall submit to the congressional defense committees a report on the progress of the Under Secretary and Director in carrying out subsections (a) through (c). The report shall include—

(1) an independent assessment conducted by the Defense Innovation Board of the progress made as of the date of the report;

(2) an explanation of how the results of the pilot programs carried out under subsection (b) will inform subsequent policy and guidance, particularly the policy and guidance of the Director of Operational Test and Evaluation; and

(3) any recommendations for changes to existing law to facilitate the implementation of subsections (a) through (c).

(f) DEFINITIONS.—In this section:

(1) The term ''Under Secretary and Director'' means the Under Secretary of Defense for Research and Engineering and the Director of Operational Test and Evaluation, acting jointly.

(2) The term ''digital engineering'' means an integrated digital approach that uses authoritative sources of system data and models as a continuum across disciplines to support life-cycle activities from concept through disposal.

(3) The term ''zero-trust assumption'' means a security architecture philosophy designed to prevent all threats, including insider threats and outsider threats.

(4) The term ''red team assessment'' means penetration tests and operations performed on a system to emulate a capable adversary to expose security vulnerabilities.

SEC. 225. PROCESS TO ALIGN POLICY FORMULATION AND EMERGING TECHNOLOGY DEVELOPMENT.

(a) ALIGNMENT OF POLICY AND TECHNOLOGICAL DEVELOPMENT.—Not later than 180 days after the date of the enactment of this Act, the Secretary of Defense shall establish a process to ensure that the policies of the Department of Defense relating to emerging technology are formulated and updated continuously as such technology is developed by the Department.

(b) ELEMENTS.—As part of the process established under subsection (a), the Secretary shall—

(1) specify the role of each covered official in ensuring that the formulation of policies relating to emerging technology is carried out concurrently with the development of such technology;

(2) establish mechanisms to ensure that the Under Secretary of Defense for Policy has the information and resources necessary to continuously formulate and update policies relating to emerging technology, including by directing the organizations and entities of the Department of Defense responsible for the development such technology—

(A) to share information with the Under Secretary;

(B) to communicate plans for the fielding and use of emerging technology to the Under Secretary; and

(C) to coordinate activities relating to such technology with the Under Secretary; and

(3) incorporate procedures for the legal review of—

(A) weapons that incorporate emerging technology; and

(B) treaties that may be affected by such technology.

(c) REPORTS REQUIRED.—

(1) INTERIM REPORT.—Not later than 60 days after the date of the enactment of this Act, the Secretary of Defense shall submit to the congressional defense committees a report on the progress of the Secretary in carrying out subsection (a).

(2) FINAL REPORT.—Not later than 30 days after date on which the Secretary of Defense establishes the process required under subsection (a), the Secretary shall submit to the congressional defense committees a report that describes such process.

(d) DEFINITIONS.—In this section:

(1) The term ''covered official'' means the Chairman of the Joint Chiefs of Staff, the Under Secretary of Defense for Research and Engineering, the Under Secretary of Defense for Policy, the commanders of the combatant commands, and the Secretaries of the military departments.

(2) The term ''emerging technology'' means technology determined to be in an emerging phase of development by the Secretary of Defense and includes quantum computing, technology for the analysis of large and diverse sets of data (commonly known as ''big data analytics''), artificial intelligence, autonomous technology, robotics, directed energy, hypersonics, and biotechnology.

SEC. 226. LIMITATION ON TRANSITION OF STRATEGIC CAPABILITIES OFFICE OF THE DEPARTMENT OF DEFENSE.

(a) LIMITATION.—The Secretary of Defense may not transition or transfer the functions of the Strategic Capabilities Office of the Department of Defense to another organization or element of the Department until—

(1) the plan required under subsection (b) has been submitted to the congressional defense committees; and

(2) a period of 30 days has elapsed following the date on which the Secretary notifies the congressional defense committees of the intent of the Secretary to transition or transfer the functions of the Office.

(b) PLAN REQUIRED.—

(1) IN GENERAL.—The Secretary of Defense shall submit to the congressional defense committees a plan for the transition or transfer of the functions of the Strategic Capabilities Office to another organization or element of the Department of Defense.

(2) ELEMENTS.—The plan required under paragraph (1) shall include the following:

(A) A timeline for the potential transition or transfer of the activities, functions, pro-

grams, plans, and resources of the Strategic Capabilities Office.

(B) The status of funding and execution of current Strategic Capabilities Office projects, including a strategy for mitigating risk to current projects during the transition or transfer.

(C) The impact of the transition or transfer on the ability of the Department to rapidly address Combatant Command requirements.

(D) The impact of the transition or transfer on the cultural attributes and core competencies of the Strategic Capabilities Office and any organization or element of the Department of Defense affected by the realignment of the Office.

(E) An assessment of the impact of the transition or transfer on the relationships of the Strategic Capabilities Office with the military departments, Combatant Commands, Department of Defense laboratories, the intelligence community, and other research and development activities.

(F) Budget and programming realignment and prioritization of Research, Development, Testing, and Evaluation budget activity that

will be carried out as a result of the transition or transfer.

(G) The status of the essential authorities of the Director of the Strategic Capabilities Office, including acquisition authorities, personnel management authorities, the authority to enter into support agreements and strategic partnerships, and original classification authority.

(3) FORM OF PLAN.—The plan required under paragraph (1) shall be submitted in unclassified form, but may include a classified annex.

Subtitle C—Reports and Other Matters

SEC. 231. MASTER PLAN FOR IMPLEMENTATION OF AUTHORITIES RELATING TO SCIENCE AND TECHNOLOGY REINVENTION LABORATORIES.

(a) PLAN REQUIRED.—The Secretary of Defense, acting through the Under Secretary of Defense for Research and Engineering, shall develop a master plan for using current authorities and responsibilities to strengthen and modernize the workforce and capabilities of the science and technology reinvention laboratories of the Department of Defense (referred to in this section as the ''laboratories'') to enhance the ability of the laboratories

to execute missions in the most efficient and effective manner.

(b) ELEMENTS.—The master plan required under subsection (a) shall include, with respect to the laboratories, the following:

(1) A summary of hiring and staffing deficiencies at laboratories, by location, and the effect of such deficiencies on the ability of the laboratories—

(A) to meet existing and future requirements of the Department of Defense; and

(B) to recruit and retain qualified personnel.

(2) A summary of existing and emerging military research, development, test, and evaluation mission areas requiring the use of the laboratories.

(3) An explanation of the laboratory staffing capabilities required for each mission area identified under paragraph (2).

(4) Identification of specific projects, including hiring efforts and management reforms, that will be carried out—

(A) to address the deficiencies identified in paragraph (1); and

(B) to support the existing and emerging mission areas identified in paragraph (2).

(5) For each project identified under paragraph (4)—

(A) a summary of the plan for the project;

(B) an explanation of the level of priority that will be given to the project; and

(C) a schedule of required investments that will be made as part of the project.

(6) A description of how the Department, including each military department concerned, will carry out the projects identified in paragraph (3) using—

(A) current authorities and responsibilities; and

(B) such other authorities as are determined to be relevant by the Secretary of Defense.

(7) Identification of any statutory barriers to implementing the master plan and legislative proposals to address such barriers.

(c) CONSULTATION.—In developing the master plan required under subsection (a), the Secretary of Defense and the Under Secretary of Defense for Research and Engineering shall consult with—

(1) the Secretary of each military department;

(2) the Service Acquisition Executives with responsibilities relevant to the laboratories;

(3) the commander of each military command with responsibilities relating to research and engineering that is affected by the master plan; and

(4) any other officials determined to be relevant by the Secretary of Defense and the Under Secretary of Defense for Research and Engineering.

(d) INITIAL REPORT.—Not later than 180 days after the date of the enactment of this Act, the Under Secretary of Defense for Research and Engineering shall submit to the congressional defense committees a report that identifies any barriers that prevent the full use and implementation of current authorities and responsibilities and such other authorities as are determined to be relevant by the Secretary of Defense, including any barriers presented by the policies, authorities, and activities of—

(1) organizations and elements of the Department of Defense; and

(2) organizations outside the Department.

(e) FINAL REPORT.—Not later than October 30, 2020, the Under Secretary of Defense for Research and Engineering shall submit to the congressional defense committees—

(1) the master plan developed under subsection (a); and

(2) a report on the activities carried out under this section.

SEC. 232. MASTER PLAN FOR INFRASTRUCTURE REQUIRED TO SUPPORT RESEARCH, DEVELOPMENT, TEST, AND EVALUATION MISSIONS.

(a) PLAN REQUIRED.—The Secretary of Defense, in consultation with the Secretaries of the military departments, shall develop and implement a master plan that addresses the research, development, test, and evaluation infrastructure and modernization requirements of the Department of Defense, including the science and technology reinvention laboratories and the facilities of the Major Range and Test Facility Base.

(b) ELEMENTS.—The master plan required under subsection (a) shall include, with respect to the research, development, test, and evaluation infrastructure of the Department of Defense, the following:

(1) A summary of deficiencies in the infrastructure, by location, and the effect of the deficiencies on the ability of the Department—

(A) to meet current and future military requirements identified in the National Defense Strategy;

(B) to support science and technology development and acquisition programs; and

(C) to recruit and train qualified personnel.

(2) A summary of existing and emerging military research, development, test, and evaluation mission areas, by location, that require modernization investments in the infrastructure—

(A) to improve operations in a manner that may benefit all users;

(B) to enhance the overall capabilities of the research, development, test, and evaluation infrastructure, including facilities and resources;

(C) to improve safety for personnel and facilities; and

(D) to reduce the long-term cost of operation and maintenance.

(3) Identification of specific infrastructure projects that are required to address the infrastructure deficiencies identified under paragraph (1) or to support the existing and emerging mission areas identified under paragraph (2).

(4) For each project identified under paragraph (3)—

(A) a description of the scope of work;

(B) a cost estimate;

(C) a summary of the plan for the project;

(D) an explanation of the level of priority that will be given to the project; and

(E) a schedule of required infrastructure investments.

(5) A description of how the Department, including each military department concerned, will carry out the infrastructure projects identified in paragraph (3) using the range of authorities and methods available to the Department, including—

(A) military construction authority under section 2802 of title 10, United States Code;

(B) unspecified minor military construction authority under section 2805(a) of such title;

(C) laboratory revitalization authority under section 2805(d) of such title;

(D) the authority to carry out facility repair projects, including the conversion of existing facilities, under section 2811 of such title;

(E) the authority provided under the Defense Laboratory Modernization Pilot Program under section 2803 of the National Defense Au-

thorization Act for Fiscal Year 2016 (Public Law 114–92; 10 U.S.C. 2358 note);

(F) methods that leverage funding from entities outside the Department, including public-private partnerships, enhanced use leases, real property exchanges; and

(G) any other authorities and methods determined to be appropriate by the Secretary of Defense.

(6) Identification of any statutory, regulatory, or policy barriers to implementing the master plan and regulatory, policy, or legislative proposals to address such barriers.

(c) CONSULTATION AND USE OF CONTRACT AUTHORITY.—In implementing the plan required under subsection (a), the Secretary of Defense shall—

(1) consult with existing and anticipated users of the Major Range and Test Facility Base; and

(2) consider using the contract authority provided to the Secretary under section 2681 of title 10, United States Code.

(d) SUBMISSION TO CONGRESS.—Not later than October 30, 2020, the Secretary of Defense shall submit to the congressional defense committees the master plan developed under subsection (a).

(e) RESEARCH AND DEVELOPMENT INFRASTRUCTURE DEFINED.—In this section, the term ''research, development, test, and evaluation infrastructure'' means the infrastructure of—

(1) the science and technology reinvention laboratories (as designated under section 1105 of the National Defense Authorization Act for Fiscal Year 2010 (Public Law 111–84 ; 10 U.S.C. 2358 note));

(2) the Major Range and Test Facility Base (as defined in section 2358a(f)(3) of title 10, United States Code); and

(3) other facilities that support the research development, test, and evaluation activities of the Department.

SEC. 233. STRATEGY AND IMPLEMENTATION PLAN FOR FIFTH GENERATION INFORMATION AND COMMUNICATIONS TECHNOLOGIES.

(a) IN GENERAL.—Not later than 270 days after the date of the enactment of this Act, the Secretary of Defense shall develop—

(1) a strategy for harnessing fifth generation (commonly known as ''5G'') information and communications technologies to enhance military capabilities, maintain a technological advantage on the battlefield, and accelerate the deployment of new

commercial products and services enabled by 5G networks throughout the Department of Defense; and

(2) a plan for implementing the strategy developed under paragraph (1).

(b) ELEMENTS.—The strategy required under subsection (a) shall include the following elements:

(1) Adoption and use of secure fourth generation (commonly known as "4G") communications technologies and the transition to advanced and secure 5G communications technologies for military applications.

(2) Science, technology, research, and development efforts to facilitate the advancement and adoption of 5G technology and new uses of 5G systems, subsystems, and components, including—

(A) 5G testbeds for developing military applications; and

(B) spectrum-sharing technologies and frameworks.

(3) Strengthening engagement and outreach with industry, academia, international partners, and other departments and agencies of the Federal Government on issues relating to 5G technology.

(4) Defense industrial base supply chain risk, management, and opportunities.

(5) Preserving the ability of the Joint Force to achieve objectives in a contested and congested spectrum environment.

(6) Strengthening the ability of the Joint Force to conduct full spectrum operations that enhance the military advantages of the United States.

(7) Securing the information technology and weapon systems of the Department against malicious activity.

(8) Such other matters as the Secretary of Defense determines to be relevant.

(c) CONSULTATION.—In developing the strategy and implementation plan required under subsection (a), the Secretary of Defense shall consult with the following:

(1) The Chief Information Officer of the Department of Defense.

(2) The Under Secretary of Defense for Research and Engineering.

(3) The Under Secretary of Defense for Acquisition and Sustainment.

(4) The Under Secretary of Defense for Intelligence.

(5) Service Acquisition Executives of each military service.

(d) BRIEFING.—Not later than 180 days after the date of the enactment of this Act, the Secretary of Defense shall provide to the congressional defense committees a briefing on the progress of the Secretary in developing the strategy and implementation plan required under subsection (a).

SEC. 234. DEPARTMENT-WIDE SOFTWARE SCIENCE AND TECHNOLOGY STRATEGY.

(a) DESIGNATION OF SENIOR OFFICIAL.—Not later than 180 days after the date of the enactment of this Act, the Secretary of Defense, acting through the Under Secretary of Defense for Research and Engineering and in consultation with the Under Secretary of Defense for Acquisition and Sustainment, shall designate a single official or existing entity within the Department of Defense as the official or entity (as the case may be) with principal responsibility for guiding the direction of research and development of next generation software and software intensive systems for the Department, including the research and development of—

(1) new technologies for the creation of highly secure, reliable, and mission-critical software; and

(2) new approaches to software development, data-based analytics, and next generation management tools.

(b) DEVELOPMENT OF STRATEGY.—The official or entity designated under subsection (a) shall develop a Department-wide strategy for the research and development of next generation software and software intensive systems for the Department of Defense, including strategies for—

(1) types of software innovation efforts within the science and technology portfolio of the Department;

(2) investment in new approaches to software development, data-based analytics, and next generation management tools;

(3) ongoing research and other support of academic, commercial, and development community efforts to innovate the software development, engineering, and testing process;

(4) to the extent practicable, implementing the recommendations set forth in—

(A) the final report of the Defense Innovation Board submitted to the congressional defense committees under section 872 of the National Defense Authorization Act for Fiscal Year 2018 (Public Law 115–91; 131 Stat. 1497); and

(B) the final report of the Defense Science Board Task Force on the Design and Acquisi-

tion of Software for Defense Systems described in section 868 of the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Public Law 115–232; 10 U.S.C. 2223 note);

(5) supporting the acquisition, technology development, and test and operational needs of the Department through the development of capabilities, including personnel and infrastructure, and programs in—

(A) the science and technology reinvention laboratories (as designated under section 1105 of the National Defense Authorization Act for Fiscal Year 2010 (Public Law 111–84; 10 U.S.C. 2358 note));

(B) the facilities of the Major Range and Test Facility Base (as defined in section 2358a(f)(3) of title 10, United States Code); and

(C) the Defense Advanced Research Projects Agency; and

(6) the transition of relevant capabilities and technologies to information technology programs of the Department, including software intensive tactical systems, enterprise systems, and business systems.

(c) SUBMITTAL TO CONGRESS.—Not later than one year after the date of the enactment of this Act, the official or entity designated under subsection (a) shall submit to the congressional defense committees the strategy developed under subsection (b).

SEC. 235. ARTIFICIAL INTELLIGENCE EDUCATION STRATEGY.

(a) STRATEGY REQUIRED.—

(1) IN GENERAL.—The Secretary of Defense shall develop a strategy for educating service members in relevant occupational fields on matters relating to artificial intelligence.

(2) ELEMENTS.—The strategy developed under subsection (a) shall include a curriculum designed to give service members a basic knowledge of artificial intelligence. The curriculum shall include instruction in—

(A) artificial intelligence design;

(B) software coding;

(C) potential military applications for artificial intelligence;

(D) the impact of artificial intelligence on military strategy and doctrine;

(E) artificial intelligence decisionmaking via machine learning and neural networks;

(F) ethical issues relating to artificial intelligence;

(G) the potential biases of artificial intelligence;

(H) potential weakness in artificial intelligence technology; and

(I) any other matters the Secretary of Defense determines to be relevant.

(b) IMPLEMENTATION PLAN.—

(1) IN GENERAL.—The Secretary of Defense shall develop a plan for implementing the strategy developed under subsection (a).

(2) ELEMENTS.—The implementation plan required under paragraph (1) shall identify the following:

(A) The military occupational specialties (applicable to enlisted members and officers) that are most likely to involve interaction with artificial intelligence technology.

(B) The specific occupational specialties that will receive training in accordance with the curriculum described in subsection (a)(2).

(C) The duration of the training.

(D) The context in which the training will be provided, which may include basic training,

occupationally specific training, and professional military education.

(E) Metrics for evaluating the effectiveness of the training and curriculum.

(F) Any other issues the Secretary of Defense determines to be relevant.

(c) SUBMITTAL TO CONGRESS.—Not later than 270 days after the date of the enactment of this Act, the Secretary of Defense shall submit to the congressional defense committees—

(1) the strategy developed under subsection (a); and

(2) the implementation plan developed under subsection (b).

SEC. 236. BIANNUAL REPORT ON THE JOINT ARTIFICIAL INTELLIGENCE CENTER.

(a) REPORT.—Not later than 90 days after the date of the enactment of this Act and biannually thereafter through the end of 2023, the Secretary of Defense shall submit to the congressional defense committees a report on the Joint Artificial Intelligence Center (referred to in this section as the ''Center'').

(b) ELEMENTS.—Each report under subsection (a) shall include the following:

(1) Information relating to the mission and objectives of the Center.

(2) A description of the National Mission Initiatives, Component Mission Initiatives, and any other initiatives of the Center, including a description of—

(A) the activities carried out under the initiatives;

(B) any investments made or contracts entered into under the initiatives; and

(C) the progress of the initiatives.

(3) A description of how the Center has sought to leverage lessons learned, share best practices, avoid duplication of efforts, and transition artificial intelligence research efforts into operational capabilities by—

(A) collaborating with other organizations and elements of the Department of Defense, including the Defense Agencies and the military departments; and

(B) deconflicting the activities of the Center with the activities of other organizations and elements of the Department.

(4) A description any collaboration between—

(A) the Center and the private sector and academia; and

(B) the Center and international allies and partners.

(5) The total number of military, contractor, and civilian personnel who are employed by the Center, assigned to the Center, and performing functions in support of the Center.

(6) A description of the organizational structure and staffing of the Center.

(7) A detailed description of the frameworks, metrics, and capabilities established to measure the effectiveness of the Center and the Center's investments in the National Mission Initiatives and Component Mission Initiatives.

(8) A description of any new policies, standards, or guidance relating to artificial intelligence that have been issued by the Chief Information Officer of the Department.

(c) JOINT ARTIFICIAL INTELLIGENCE CENTER DEFINED.—In this section, the term "Joint Artificial Intelligence Center" means the Joint Artificial Intelligence Center of the Department of Defense established pursuant to section 238 of the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Public Law 115–232).

SEC. 237. QUARTERLY UPDATES ON THE OPTIONALLY MANNED FIGHTING VEHICLE PROGRAM.

(a) IN GENERAL.—Beginning not later than October 1, 2019, and on a quarterly basis thereafter through October 1, 2025, the Assistant Secretary of the Army for Acquisition, Logistics, and Technology, in consultation with the Commander of the Army Futures Command, shall provide to the Committee on Armed Services of the House of Representatives a briefing on the progress of the Optionally Manned Fighting Vehicle program of the Army.

(b) ELEMENTS.—Each briefing under subsection (a) shall include, with respect to the Optionally Manned Fighting Vehicle program, the following elements:

(1) An overview of funding for the program, including identification of—

(A) any obligations and expenditures that have been made under the program; and

(B) any obligations and expenditures that are planned for the program.

(2) An overview of the program schedule.

(3) A description of each contract awarded under the program, including a description of the type of contract and the status of the contract.

(4) An assessment of the status of the program with respect to—

(A) the development and approval of technical requirements;

(B) technological maturity;

(C) testing;

(D) delivery; and

(E) program management.

SEC. 238. GRANTS FOR CIVICS EDUCATION PROGRAMS.

(a) IN GENERAL.—The Secretary of Defense shall carry out a program under which the Secretary makes grants to eligible entities, on a competitive basis, to support the development and evaluation of civics education programs.

(b) APPLICATION.—To be eligible to receive a grant under this section an eligible entity shall submit to the Secretary of Defense an application at such time, in such manner, and containing such information as the Secretary may require. Applications submitted under this subsection shall be evaluated on the basis of merit pursuant to competitive procedures prescribed by the Secretary of Defense.

(c) SELECTION CRITERIA.—To be selected to receive a grant under this section an eligible entity shall demonstrate each of the following to the satisfaction of the Secretary:

(1) The civics education program proposed by the entity will include innovative approaches for improving civics education.

(2) The entity will dedicate sufficient resources to the program.

(3) As part of the program, the entity will conduct evaluations in accordance with subsection (f)(1)(B).

(4) The entity will carry out activities to disseminate the results of the evaluations described in such subsection, including publication of the results in peer-reviewed academic journals.

(d) GEOGRAPHIC DISTRIBUTION.—To the extent practicable, the Secretary of Defense shall ensure an equitable geographic distribution of grants under this section.

(e) CONSULTATION.—In awarding grants under this section, the Secretary of Defense shall consult with the Secretary of Education.

(f) USES OF FUNDS.—

(1) REQUIRED USES OF FUNDS.—An eligible entity that receives a grant under this section shall use such grant—

(A) to establish a civics education program or to improve an existing civics education program; and

(B) to evaluate the effect of the program on participants, including with respect to—

(i) critical thinking and media literacy;

(ii) voting and other forms of political and civic engagement;

(iii) interest in employment, and careers, in public service;

(iv) understanding of United States law, history, and Government; and

(v) the ability of participants to collaborate and compromise with others to solve problems.

(2) ALLOWABLE USES OF FUNDS.—An eligible entity that receives a grant under this section may use such grant for—

(A) the development or modification of curricula relating to civics education;

(B) classroom activities, thesis projects, individual or team projects, internships, or community service activities relating to civics;

(C) collaboration with government entities, nonprofit organizations, or consortia of such entities and organizations to provide participants with civics-related experiences;

(D) civics-related faculty development programs;

(E) recruitment of educators who are highly qualified in civics education to teach civics or to assist with the development of curricula for civics education;

(F) presentation of seminars, workshops, and training for the development of skills associated with civic engagement;

(G) activities that enable participants to interact with government officials and entities;

(H) expansion of civics education programs and outreach for members of the Armed Forces, dependents and children of such members and employees of the Department of Defense; and

(I) opportunities for participants to obtain work experience in fields relating to civics.

(g) DEFINITIONS.—In this section:

(1) The term ''civics education program'' means an educational program that provides participants with—

(A) knowledge of law, government, and the rights of citizens; and

(B) skills that enable participants to responsibly participate in democracy.

(2) The term ''eligible entity'' means a Department of Defense domestic dependent elementary or secondary school (as described in section 2164 of title 10, United States Code).

SEC. 239. TECHNOLOGY AND NATIONAL SECURITY FELLOWSHIP.

(a) FELLOWSHIP PROGRAM.—

(1) IN GENERAL.—Not later than 180 days after the date of the enactment of this Act, the Secretary of Defense, acting through the Under Secretary of Defense for Research and Engineering, may establish a civilian fellowship program designed to place eligible individuals within the Department of Defense to increase the number of national security professionals with science, technology, engineering, and mathematics credentials employed by the Department.

(2) DESIGNATION.—The fellowship program established under paragraph (1) shall be known as the ''Technology and National Security Fellowship'' (in this section referred to as the ''fellows program'').

(3) EMPLOYMENT.—Fellows will be assigned to a one year tour of duty within the Department of Defense.

(4) PAY AND BENEFITS.—An individual assigned to a position under the fellows program shall be compensated at the rate of compensation for employees at level GS-10 of the General Schedule, and shall be treated as an employee of the United States during the term of assignment.

(b) ELIGIBLE INDIVIDUALS.—For purposes of this section, and subject to subsection (f)(3), an eligible individual is any individual who—

(1) is a citizen of the United States; and

(2) either—

(A) expects to be awarded an undergraduate or graduate degree that, as determined by the Secretary, focuses on science, technology, engineering, or mathematics course work not later than 180 days after the date on which the individual submits an application for participation in the fellows program; or

(B) possesses an undergraduate or graduate degree that, as determined by the Secretary, focuses on science, technology, engineering, or mathematics course work that was

1 awarded not earlier than one year before the
2 date on which the individual submits an appli-
3 cation for participation in the fellows program.
4 (c) APPLICATION REQUIRED.—Each individual seek-
5 ing to participate in the fellows program shall submit to
6 the Secretary an application therefor at such time and in
7 such manner as the Secretary shall specify.
8 (d) COORDINATION.—
9 (1) IN GENERAL.—In carrying out this section,
10 the Secretary may consider coordinating or
11 partnering with the entities specified in paragraph
12 (2).
13 (2) ENTITIES SPECIFIED.—The entities speci-
14 fied in this paragraph are the following:
15 (A) The National Security Innovation Net-
16 work.
17 (B) Universities affiliated with Hacking for
18 Defense.
19 (f) MODIFICATIONS TO FELLOWS PROGRAM.—As the
20 Secretary considers necessary to modify the fellows pro-
21 gram, and in coordination with the entities specified in
22 subsection (d)(2), as the Secretary considers appropriate,
23 the Secretary may—
24 (1) determine the length of a fellowship term;

(2) establish the rate of compensation for an individual selected to participate in the fellows program; and

(3) change the eligibility requirements for participation in the fellows program, including who is considered an eligible individual for purposes of the fellows program.

(g) CONSULTATION.—The Secretary may consult with the heads of the agencies, components, and other elements of the Department of Defense and such institutions of higher education and private entities engaged in work on national security and emerging technologies as the Secretary considers appropriate for purposes of the fellows program, including fellowship assignments.

SEC. 240. NATIONAL SECURITY COMMISSION ON DEFENSE RESEARCH AT HISTORICALLY BLACK COLLEGES AND UNIVERSITIES AND OTHER MINORITY INSTITUTIONS.

(a) ESTABLISHMENT.—

(1) IN GENERAL.—There is established in the executive branch an independent Commission to review the state of defense research at covered institutions.

(2) TREATMENT.—The Commission shall be considered an independent establishment of the Fed-

eral Government as defined by section 104 of title 5, United States Code, and a temporary organization under section 3161 of such title.

(3) DESIGNATION.—The Commission established under paragraph (1) shall be known as the ''National Security Commission on Defense Research At Historically Black Colleges and Universities and Other Minority Institutions''.

(4) MEMBERSHIP.—

(A) COMPOSITION.—The Commission shall be composed of 11 members appointed as follows:

(i) The Secretary of Defense shall appoint 2 members.

(ii) The Secretary of Education shall appoint 1 member.

(iii) The Chairman of the Committee on Armed Services of the Senate shall appoint 1 member.

(iv) The Ranking Member of the Committee on Armed Services of the Senate shall appoint 1 member.

(v) The Chairman of the Committee on Armed Services of the House of Representatives shall appoint 1 member.

(vi) The Ranking Member of the Committee on Armed Services of the House of Representatives shall appoint 1 member.

(vi) The Chairman of the Committee on Health, Education, Labor, and Pensions of the Senate shall appoint 1 member.

(viii) The Ranking Member of the Committee on Health, Education, Labor, and Pensions of the Senate shall appoint 1 member.

(ix) The Chairman of the Committee on Education and Labor of the House of Representatives shall appoint 1 member.

(x) The Ranking Member of the Committee on Education and Labor of the House of Representatives shall appoint 1 member.

(B) DEADLINE FOR APPOINTMENT.—Members shall be appointed to the Commission under subparagraph (A) not later than 90 days after the date on which the commission is established.

(C) EFFECT OF LACK OF APPOINTMENT BY APPOINTMENT DATE.—If one or more appointments under subparagraph (A) is not made by the appointment date specified in subparagraph (B), or if a position described in subparagraph (A) is vacant for more than 90 days, the authority to make such appointment shall transfer to the Chair of the Commission.

(5) CHAIR AND VICE CHAIR.—The Commission shall elect a Chair and Vice Chair from among its members.

(6) TERMS.—Members shall be appointed for the life of the Commission. A vacancy in the Commission shall not affect its powers and shall be filled in the same manner as the original appointment was made.

(7) STATUS AS FEDERAL EMPLOYEES.—Notwithstanding the requirements of section 2105 of title 5, United States Code, including the required supervision under subsection (a)(3) of such section, the members of the Commission shall be deemed to be Federal employees.

(b) DUTIES.—

(1) IN GENERAL.—The Commission shall carry out the review described in paragraph (2). In car-

rying out such review, the Commission shall consider the methods and means necessary to advance research capacity at covered institutions to comprehensively address the national security and defense needs of the United States.

(2) SCOPE OF THE REVIEW.—In conducting the review under paragraph (1), the Commission shall consider the following:

(A) The competitiveness of covered institutions in developing, pursuing, capturing, and executing defense research with the Department of Defense through contracts and grants.

(B) Means and methods for advancing the capacity of covered institutions to conduct research related to national security and defense.

(C) The advancements and investments necessary to elevate covered institutions to R2 status on the Carnegie Classification of Institutions of Higher Education, covered institutions to R1 status on the Carnegie Classification of Institutions of Higher Education, one covered institution or a consortium of multiple covered institutions to the capability of a University Affiliated Research Center, and identify the candidate institutions for each category.

(D) The facilities and infrastructure for defense-related research at covered institutions as compared to the facilities and infrastructure at universities classified as R1 status on the Carnegie Classification of Institutions of Higher Education.

(E) Incentives to attract, recruit, and retain leading research faculty to covered institutions.

(F) The legal and organizational structure of the contracting entity of covered institutions as compared to the legal and organizational structure of the contracting entity of covered institutions at universities classified as R1 status on the Carnegie Classification of Institutions of Higher Education.

(G) The ability of covered institutions to develop, protect, and commercialize intellectual property created through defense-related research.

(H) The amount of defense research funding awarded to all colleges and universities through contracts and grants for the fiscal years of 2010 through 2019, including—

(i) the legal mechanism under which the organization was formed;

(ii) the total value of contracts and grants awarded to the organization during fiscal years 2010 to 2019;

(iii) the overhead rate of the organization for fiscal year 2019;

(iv) the Carnegie Classification of Institutions of Higher Education of the associated university or college;

(v) if the associated university or college qualifies as a historically Black college or university or a minority institution.

(I) Areas for improvement in the programs executed under section 2362 of title 10, United States Code, the existing authorization to enhance defense-related research and education at covered institutions.

(J) Previous executive or legislative actions by the Federal Government to address the imbalance in federal research funding, such as the Established Program to Stimulate Competitive Research (commonly known as ''EPSCoR'').

(K) Any other matters the Commission deems relevant to the advancing the defense research capacity of covered institutions.

(c) REPORTS.—

(1) INITIAL REPORT.—Not later than 180 days after the date of the enactment of this Act, the Commission shall submit to the President and Congress an initial report on the findings of the Commission and such recommendations that the Commission may have for action by the executive branch and Congress related to the covered institutions participating in Department of Defense research and actions necessary to expand their research capacity.

(2) FINAL REPORT.—Prior to the date on which the commission terminates under subsection (d), the Commission shall submit to the President and Congress a comprehensive report on the results of the review required under subsection (b).

(3) FORM OF REPORTS.—Reports submitted under this subsection shall be made publically available.

(d) TERMINATION.—The Commission shall terminate on December 31, 2021.

(e) COVERED INSTITUTION DEFINED.—In this section, the term ''covered institution'' means—

(1) a part B institution (as that term is defined in section 322(2) of the Higher Education Act of 1965 (20 U.S.C. 1061(2)); or

(2) any other institution of higher education (as that term is defined in section 101 of such Act (20 U.S.C. 1001)) at which not less than 50 percent of the total student enrollment consists of students from ethnic groups that are underrepresented in the fields of science and engineering.

TITLE III—OPERATION AND MAINTENANCE

Subtitle A—Authorization of Appropriations

SEC. 301. AUTHORIZATION OF APPROPRIATIONS.

Funds are here by authorized to be appropriated for fiscal year 2020 for the use of the Armed Forces and other activities and agencies of the Department of Defense for expenses, not otherwise provided for, for operation and maintenance, as specified in the funding table in section 4301.

Subtitle B—Energy and Environment

SEC. 311. TIMELINE FOR CLEARINGHOUSE REVIEW OF APPLICATIONS FOR ENERGY PROJECTS THAT MAY HAVE AN ADVERSE IMPACT ON MILITARY OPERATIONS AND READINESS.

Section 183a(c)(1) of title 10, United States Code, is amended by striking ''60 days'' and inserting ''90 days''.

SEC. 312. AUTHORITY TO MAKE FINAL FINDING ON DESIGNATION OF GEOGRAPHIC AREAS OF CONCERN FOR PURPOSES OF ENERGY PROJECTS WITH ADVERSE IMPACTS ON MILITARY OPERATIONS AND READINESS.

Section 183a(d)(2)(E) of title 10, United States Code, is amended—

(1) by striking ''or a Principal'' and inserting ''a''; and

(2) by inserting '', an Assistant Secretary of Defense, or a Deputy Assistant Secretary of Defense'' after ''Deputy Under Secretary of Defense''.

SEC. 313. AUTHORITY TO ACCEPT CONTRIBUTIONS OF FUNDS FROM APPLICANTS FOR ENERGY PROJECTS FOR MITIGATION OF IMPACTS ON MILITARY OPERATIONS AND READINESS.

Section 183a(f) of title 10, United States Code, is amended by striking ''for a project filed with the Secretary of Transportation pursuant to section 44718 of title 49'' and inserting ''for an energy project''.

SEC. 314. DEPARTMENT OF DEFENSE IMPROVEMENT OF PREVIOUSLY CONVEYED UTILITY SYSTEMS SERVING MILITARY INSTALLATIONS.

Section 2688 of title 10, United States Code, is amended—

(1) by redesignating subsection (k) as subsection (l); and

(2) by inserting after subsection (j) the following new subsection (k):

''(k) IMPROVEMENT OF CONVEYED UTILITY SYSTEMS.—In the case of a utility system that is conveyed under this section and that only provides utility services to a military installation, the Secretary concerned may use amounts authorized to be appropriated for military construction to improve the reliability, resilience, efficiency, physical security, or cybersecurity of the utility system.''.

SEC. 315. FIVE-YEAR AUTHORITY FOR NATIONAL GUARD ENVIRONMENTAL RESTORATION PROJECTS FOR ENVIRONMENTAL RESPONSES.

(a) IN GENERAL.—Section 2707 of title 10, United States Code, is amended by adding at the end the following new subsection:

''(e) TEMPORARY AUTHORITY FOR NATIONAL GUARD PROJECTS.—Notwithstanding subsection (a) of this section and section 2701(c)(1) of this title, during the five-year period beginning on the date of the enactment of this subsection, the Secretary concerned may carry out an environmental restoration project if the Secretary determines that the project is necessary to carry out a response to perfluorooctanoic acid or perfluorooctane sulfonate contamination under this chapter or CERCLA.''.

(b) SAVINGS CLAUSE.—Nothing in this section, or the amendment made by this section, shall affect any requirement or authority under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (42 U.S.C. 9601 et seq.).

SEC. 316. SALE OF ELECTRICITY FROM ALTERNATE ENERGY AND COGENERATION PRODUCTION FACILITIES.

Section 2916(b)(3) of title 10, United States Code, is amended—

(1) in subparagraph (A), by striking ''and'' at the end; and

(2) in subparagraph (B)—

(A) by striking ''shall be available'' and all that follows and inserting ''shall be provided directly to the commander of the military installation in which the geothermal energy resource is located to be used for—''; and

(B) by adding at the end the following new clauses:

''(i) military construction projects described in paragraph (2) that benefit the military installation where the geothermal energy resource is located; or

''(ii) energy or water security projects that—

''(I) benefit the military installation where the geothermal energy resource is located;

''(II) the commander of the military installation determines are necessary; and

''(III) are directly coordinated with local area energy or groundwater governing authorities.''.

SEC. 317. TRANSFER AUTHORITY FOR FUNDING OF STUDY AND ASSESSMENT ON HEALTH IMPLICATIONS OF PER- AND POLYFLUOROALKYL SUBSTANCES CONTAMINATION IN DRINKING WATER BY AGENCY FOR TOXIC SUBSTANCES AND DISEASE REGISTRY.

Section 316(a)(2)(B)(ii) of the National Defense Authorization Act for Fiscal Year 2018 (Public Law 115–91; 131 Stat. 1350), as amended by section 315(a) of the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Public Law 115–232), is amended by striking ''2019 and 2020'' and inserting ''2019, 2020, and 2021''.

SEC. 318. REPLACEMENT OF FLUORINATED AQUEOUS FILM-FORMING FOAM WITH FLUORINE-FREE FIRE-FIGHTING AGENT.

(a) USE OF FLUORINE-FREE FOAM AT MILITARY INSTALLATIONS.—Not later than January 31, 2025, the Secretary of the Navy shall publish a military specification for a fluorine-free fire-fighting agent for use at all military installations to ensure such agent is available for use by not later than 2027.

(b) PROHIBITION ON USE.—Fluorinated aqueous film-forming foam may not be used at any military installation on or after September 30, 2029, or before such date, if possible.

(c) WAIVER.—

(1) IN GENERAL.—Subject to paragraph (2), the Secretary of Defense may grant a waiver to the prohibition under subsection (b) with respect to the use of fluorinated aqueous film-forming foam at a specific military installation if the Secretary submits to the congressional defense committees, by not later than 30 days prior to issuing the waiver—

(A) notice of the waiver; and

(B) certification, in writing, that the waiver is necessary for the protection of life and safety.

(2) LIMITATION.—A waiver under this subsection shall apply for a period that does not exceed three years. The Secretary may extend any such waiver once for an additional period that does not exceed three years.

SEC. 319. PROHIBITION OF UNCONTROLLED RELEASE OF FLUORINATED AQUEOUS FILM-FORMING FOAM AT MILITARY INSTALLATIONS.

(a) PROHIBITION.—Except as provided by subsection (b), the Secretary of Defense shall prohibit the uncontrolled release of fluorinated aqueous film-forming foam (hereinafter in this section referred to as ''AFFF'') at military installations.

(b) EXCEPTIONS.—Notwithstanding subsection (a), fluorinated AFFF may be released at military installations as follows:

(1) AFFF may be released for purposes of an emergency response.

(2) A non-emergency release of AFFF may be made for the purposes of testing of equipment or training of personnel, if complete containment, capture, and proper disposal mechanisms are in place to ensure no AFFF is released into the environment.

SEC. 320. PROHIBITION ON USE OF FLUORINATED AQUEOUS FILM FORMING FOAM FOR TRAINING EXERCISES.

The Secretary of Defense shall prohibit the use of fluorinated aqueous film forming foam for training exercises at military installations.

SEC. 321. REAL-TIME NOISE-MONITORING STUDY AT NAVY AND AIR FORCE INSTALLATIONS WHERE TACTICAL FIGHTER AIRCRAFT OPERATE.

(a) REAL-TIME MONITORING.—The Secretary of the Navy and the Secretary of the Air Force shall each conduct a real-time noise-monitoring study at no fewer than three Navy installations and three Air Force installations. In conducting such study, the Secretaries shall—

(1) select installations where tactical fighter aircraft operate and noise contours have been developed through noise modeling to validate the noise contours developed through analysis and modeling at those installations; and

(2) ensure that such monitoring is conducted during times of high, medium, and low activity.

(b) REPORT REQUIRED.—Not later than December 1, 2020, the Secretary of the Navy and the Secretary of the Air Force shall jointly submit to the Committees on Armed Services of the Senate and House of Representatives a report on the real-time noise monitoring required under subsection (a). Such report shall include—

(1) the results of such monitoring;

(2) a comparison of such monitoring and the noise contours previously developed with the analysis and modeling methods previously used;

(3) an overview of any changes to the analysis and modeling process that have been made or are being considered as a result of the findings of such monitoring; and

(4) any other matters that the Secretaries determine appropriate.

SEC. 322. DEVELOPMENT OF CLIMATE VULNERABILITY AND RISK ASSESSMENT TOOL.

(a) IN GENERAL.—Not later than 180 days after the date of the enactment of this Act, the Secretary of Defense shall develop a climate vulnerability and risk assessment tool to assist the military departments in measuring how the risks associated with climate change impact networks, systems, installations, facilities, and other assets, as well as the operational plans and capabilities of the Department of Defense.

(b) CONSULTATION.—In developing the tool under subsection (a), the Secretary shall consult with the Administrator of the Environmental Protection Agency, the Secretary of Energy, the Secretary of the Interior, the Administrator of the National Oceanic and Atmospheric Administration, the Administrator of the Federal Emergency Management Agency, the Commander of the Army Corps of Engineers, the Administrator of the National Aeronautics and Space Administration, a federally funded research and development center, and the heads of such other relevant Federal agencies as the Secretary of Defense determines appropriate.

(c) PREVAILING SCIENTIFIC CONSENSUS.—Before completing development of the tool under subsection (a), the Secretary shall obtain from a federally funded research and development center with which the Secretary has con-

sulted under subsection (b) a certification in writing that the tool contains a methodology that adequately incorporates the prevailing scientific consensus on climate change.

(d) REPORT.—

(1) IN GENERAL.—Not later than 180 days after the date of the enactment of this Act, the Secretary shall submit to the congressional defense committees a report describing the tool developed under subsection (a).

(2) CLASSIFIED ANNEX.—The report under paragraph (1) shall be submitted in unclassified form but may contain a classified annex if necessary.

(3) PUBLICATION.—Upon submittal of the report under paragraph (1), the Secretary shall publish the unclassified portion of the report on an internet website of the Department that is available to the public.

(e) UPDATES TO TOOL.—

(1) IN GENERAL.—After submittal of the report under subsection (d), the Secretary of Defense shall update the climate vulnerability and risk assessment tool developed under subsection (a) as the Secretary considers necessary and appropriate, in consultation with the individuals and entities described in sub-

section (b) and consistent with the prevailing scientific consensus as required under subsection (c).

(2) REPORT AND PUBLICATION.—Upon completing an update to the tool under paragraph (1), the Secretary shall—

(A) submit to the congressional defense committees a report describing such update; and

(B) publish the unclassified version of such report on an internet website of the Department that is available to the public.

SEC. 323. PROVISION OF UNCONTAMINATED WATER FOR AGRICULTURAL USE ON LAND CONTAMINATED BY PFOS AND PFOA USED ON MILITARY INSTALLATIONS.

(a) FINDINGS.—Congress makes the following findings:

(1) Perfluorooctanesulfonic acid (in this section referred to as ''PFOS'') and perfluorooctanoic acid (in this section referred to as ''PFOA'') are part of a class of man-made chemicals that have been used in a variety of industrial and consumer products to make the products resist heat, stains, water, and grease. Because PFOS and PFOA extinguish petroleum fires quickly, the Department of Defense and

commercial airports began using aqueous film forming foam containing PFOS and PFOA in the 1970s.

(2) PFOS and PFOA can accumulate and stay in the body for long periods of time. Exposure to PFOS and PFOA may cause health problems, including issues with the reproductive system, liver and kidney damage, developmental issues in children, and negatively impacted immune system, and cancer.

(3) A common method of human exposure to PFOS and PFOA is by consuming contaminated drinking water.

(4) The Environmental Protection Agency issued lifetime health advisories under the Safe Drinking Water Act for individual or combined PFOS and PFOA concentrations at 70 parts per trillion in 2016, but has not yet issued any guidance or regulation for groundwater or agricultural water.

(5) The Department of Defense has provided mitigations in many communities where drinking water has tested at or above the lifetime health advisory level, including bottled water and drinking water filtration systems. Due to the lack of regulatory guidance, these mitigations have not been mirrored in agricultural water systems.

(6) As a result, farmers located adjacent to military installations with PFOS and PFOA contamination that has migrated off-installation are potentially impacted, and in at least one case, such contamination has had a serious impact on the livelihood of a dairy farmer.

(b) AUTHORITY TO PROVIDE UNCONTAMINATED WATER FOR AGRICULTURAL PURPOSES.—

(1) IN GENERAL.—If an area has been identified under paragraph (2), and a military installation has been determined to be the source of that contamination, the Secretary of Defense or the Secretary concerned may provide, for the purpose of producing agricultural products destined for human consumption—

(A) water sources uncontaminated with perfluoroalkyl and polyfluoroalkyl substances, including PFOA and PFOS, or

(B) treatment of contaminated waters.

(2) IDENTIFICATION OF AREAS.—An area identified under this paragraph is an area for which the level of PFOA or PFOS contamination—

(A) is above the lifetime health advisory for contamination for such compounds as issued by the Environmental Protection Agency and

printed in the Federal Register on May 25, 2016;

(B) is at or above a regulatory standard set by the Food and Drug Administration for PFOA and PFOS in raw agricultural commodities and milk; or

(C) is at or above a duly promulgated, non-discriminatory standard promulgated by a State regulatory entity for PFOA and PFOS in raw agricultural commodities and milk.

(3) SOURCE OF FUNDS.—Amounts used to carry out this section shall be derived—

(A) in the case of amounts made available by the Secretary concerned, from amounts authorized to be appropriated for Operation and Maintenance for the military department concerned; or

(B) in the case of amounts made available by the Secretary of Defense, from amounts authorized to be appropriated for Operation and Maintenance, Defense-wide.

(c) SENSE OF CONGRESS REGARDING LAND ACQUISITION.—It is the sense of Congress that the Secretary concerned should explore authorities under which the Secretary could acquire land the land adjacent to military in-

stallations where the owners of the land have experienced impacts to their livelihood due to PFOS and PFOA contamination that has been verified to have been caused by that installation, including the authorities under sections 2663, 2864a, and 2869 of title 10, United States Code.

Subtitle C—Logistics and Sustainment

SEC. 331. MATERIAL READINESS METRICS AND OBJECTIVES.

(a) MATERIAL READINESS METRICS AND OBJECTIVES.—

(1) IN GENERAL.—Chapter 2 of title 10, United States Code, is amended by inserting after section 117 the following new section:

"§ 118. Material readiness metrics and objectives

''(a) GUIDANCE.—(1) The Secretary of Defense shall issue and maintain guidance requiring the implementation and use of material readiness metrics to enable assessment of the readiness of armed forces to carry out the national defense strategy required by section 113 of this title.

''(2) Guidance issued pursuant to this section shall ensure that such material readiness metrics—

''(A) are based on standardized and consistent criteria; and

"(B) are applied, used, recorded, and reported in same manner by all components of the Department of Defense.

"(b) METRICS.—At a minimum, the material readiness metrics required by subsection (a) shall address the material availability, operational availability, and material reliability of each major weapon system by designated mission design series, variant, or class.

"(c) MATERIAL READINESS OBJECTIVES.—(1) The Secretary of Defense shall establish, and annually review and revise, an objective value for each metric required by subsection (b) as a necessary component to support the review and revision of the national defense strategy required by section 113 of this title.

"(2) To the maximum extent practicable, the Secretary shall ensure that objective values established under this subsection are unclassified.

"(d) DEFINITIONS.—In this section:

"(1) The term 'major weapons system' has the meaning given the term 'major system' under section 2302(5) of this title, except that such term does not include an acquisition program for a defense business system (as defined in section 2222(i)(1) of this title).

"(2) The term 'material availability' means the measure of the percentage of the total inventory of a system that is operationally capable of performing an assigned mission.

"(3) The term 'material reliability' means the probability that a covered asset will perform without failure over a specified interval.

"(4) The term 'operational availability' means the measure of the percentage of time a covered asset is operationally capable.".

(2) CLERICAL AMENDMENT.—The table of sections at the beginning of such chapter is amended by inserting after the item relating to section 117 the following new item:

"118. Material readiness metrics and objectives.".

(b) CONFORMING AMENDMENT.—Section 2337(b)(2)(A) of title 10, United States Code, is amended—

(1) by inserting "to meet the material readiness objectives" before "for the weapon system"; and

(2) by inserting "under section 118 of this title" after "weapon system".

(c) DEADLINES.—

(1) DEADLINE FOR GUIDANCE.—The guidance required by section 118(a) of title 10, United States Code, as added by subsection (a), shall be issued by

not later than 180 days after the date of the enactment of this Act.

(2) DEADLINE FOR ESTABLISHMENT OF MATERIAL READINESS OBJECTIVES.—The material readiness objectives required by section 118(c)(1) of title 10, United States Code, as added by subsection (a), shall be established by not later than one year after the date of the enactment of this Act.

SEC. 332. CLARIFICATION OF AUTHORITY REGARDING USE OF WORKING CAPITAL FUNDS FOR UNSPECIFIED MINOR MILITARY CONSTRUCTION PROJECTS RELATED TO REVITALIZATION AND RECAPITALIZATION OF DEFENSE INDUSTRIAL BASE FACILITIES.

Section 2208(u) of title 10, United States Code, is amended—

(1) in paragraph (1), by striking ''carry out'' and inserting ''fund'';

(2) in paragraph (2)—

(A) by striking ''Section 2805'' and inserting ''(A) Except as provided in subparagraph (B), section 2805'';

(B) by striking ''carried out with'' and inserting ''funded using''; and

(C) by adding at the end the following new subparagraph:

''(B) For purposes of applying subparagraph (A), the dollar limitation specified in subsection (a)(2) of section 2805 of this title, subject to adjustment as provided in subsection (f) of such section, shall apply rather than the dollar limitation specified in subsection (c) of such section.''; and

(3) in paragraph (4), by striking ''carry out'' and inserting ''fund''.

SEC. 333. F–35 JOINT STRIKE FIGHTER SUSTAINMENT.

(a) LIMITATION ON USE OF FUNDS.—Of the amounts authorized to be appropriated or otherwise made available in this Act for the Office of the Under Secretary of Defense for Acquisition and Sustainment for fiscal year 2020, not more than 75 percent may be obligated or expended until the date on which the Under Secretary submits the report required by subsection (b).

(b) REPORT REQUIRED.—The Under Secretary of Defense for Acquisition and Sustainment shall submit to the Committees on Armed Services of the Senate and House of Representatives a report on steps being taken to improve the availability and accountability of F–35 parts within the supply chain. At a minimum, the report

shall include a detailed plan for each of the following elements:

(1) How the accountable property system of record will be updated with information from the prime contractors supplying such parts on required cost and related data with respect to the parts and how the F–35 Program Office will ensure such contractors are adhering to contractual requirements for the management, reporting, visibility, and accountability of all such parts supplied by the prime contractors.

(2) How the accountability property system of record will have interfaces that allow the F–35 Program Office and other authorized entities to have proper accountability of assets in accordance with applicable Department of Defense Instructions, Department of Defense Manuals, and other applicable regulations.

(3) How the F–35 Program Office and the Secretary of each of the military departments will ensure business rules for the prioritization of F–35 parts across all program participants is sufficient, effective, and responsive.

(4) Steps being taken to ensure parts within the base, afloat, and deployment spares packages are

compatible for deploying F–35 aircraft and account for updated parts demand.

SEC. 334. REPORT ON STRATEGIC POLICY FOR PREPOSITIONED MATERIEL AND EQUIPMENT.

(a) REPORT REQUIRED.—Not later than March 1, 2020, the Assistant Secretary of Defense for Sustainment, in coordination with the Joint Staff, shall submit to the Committees on Armed Services of the Senate and House of Representatives a report on the implementation plan for prepositioned materiel and equipment required by section 321(b) of the National Defense Authorization Act for Fiscal Year 2014 (Public Law 113–66; 127 Stat. 730; 10 U.S.C. 2229 note). Such report shall include each of the following:

(1) A comprehensive list of the prepositioned materiel and equipment programs of the Department of Defense.

(2) A detailed description of how the plan will be implemented.

(3) A description of the resources required to implement the plan, including the amount of funds and personnel.

(4) A description of how the plan will be reviewed and assessed to monitor progress.

(5) Guidance on applying a consistent definition of prepositioning across the Department, including the military departments, the combatant commands, and the Defense Agencies.

(6) A detailed description of how the Secretary will implement a joint oversight approach of the prepositioning programs of the military departments.

(b) LIMITATION ON USE OF FUNDS.—Of the amounts authorized to be appropriated or otherwise made available in this Act for the Office of the Assistant Secretary of Defense for Sustainment for fiscal year 2020, not more than 75 percent may be obligated or expended until the date on which the Assistant Secretary submits the report required by subsection (a).

SEC. 335. LIMITATION ON USE OF FUNDS FOR IMPLEMENTATION OF ELEMENTS OF MASTER PLAN FOR REDEVELOPMENT OF FORMER SHIP REPAIR FACILITY IN GUAM.

(a) LIMITATION.—Except as provided in subsection (b), none of the funds authorized to be appropriated by this Act or otherwise made available for the Navy for fiscal year 2020 may be obligated or expended for any construction, alteration, repair, or development of the real property consisting of the Former Ship Repair Facility in Guam.

(b) EXCEPTION.—The limitation under subsection (a) does not apply to any project that directly supports depot-level ship maintenance capabilities, including the mooring of a floating dry dock.

(c) FORMER SHIP REPAIR FACILITY IN GUAM.—In this section, the term ''Former Ship Repair Facility in Guam'' means the property identified by that name under the base realignment and closure authority carried out under the Defense Base Closure and Realignment Act of 1990 (part A of title XXIX of Public Law 101–510; 10 U.S.C. 2687 note).

Subtitle D—Reports

SEC. 341. READINESS REPORTING.

(a) READINESS REPORTING SYSTEM.—Section 117 of title 10, United State Code, is amended—

(1) by striking subsections (d) through (g); and

(2) by redesignating subsection (h) as subsection (d).

(b) QUARTERLY REPORTS.—Section 482 of title 10, United States Code, is amended—

(1) in the section heading, by striking ''**Quarterly reports: personnel and unit readiness**'' and inserting ''**Readiness reports**'';

(2) in subsection (a)—

(A) In the subsection heading, by striking " QUARTERLY REPORTS REQUIRED" and inserting "REPORTS AND BRIEFINGS";

(B) In the first sentence—

(i) by striking "Not later" and inserting "(1) Not later"; and

(ii) by striking "each calendar-year quarter" and inserting "the second and fourth quarter of each calendar year";

(C) by striking the second and third sentences and inserting "The Secretary of Defense shall submit each such report in writing and shall also submit a copy of each such report to the Chairman of the Joint Chiefs of Staff."; and

(D) by adding at the end the following new paragraphs:

"(2) Not later than 30 days after the end of the first and third quarter of each calendar year, the Secretary of Defense shall provide to Congress a briefing regarding the military readiness of the active and reserve components.

"(3) Each report under this subsection shall contain the elements required by subsection (b) for the quarter covered by the report, and each briefing shall address any

changes to the elements described in subsection (b) since the submittal of the most recently submitted report.''; (3) by striking subsection (b) and inserting the following:

''(b) REQUIRED ELEMENTS.—The elements described in this subsection are each of the following:

''(1) A description of each readiness problem or deficiency that affects the ground, sea, air, space, cyber, or special operations forces, and any other area determined appropriate by the Secretary of Defense.

''(2) The key contributing factors, indicators, and other relevant information related to each identified problem or deficiency.

''(3) The short-term mitigation strategy the Department will employ to address each readiness problem or deficiency until a resolution is in place, as well as the timeline, cost, and any legislative remedies required to support the resolution.

''(4) A summary of combat readiness ratings for the key force elements assessed, including specific information on personnel, supply, equipment, and training problems or deficiencies that affect the combat readiness ratings for each force element.

"(5) A summary of each upgrade or downgrade of the combat readiness of a unit that was issued by the commander of the unit, together with the rationale of the commander for the issuance of such upgrade or downgrade.

"(6) A summary of the readiness of supporting capabilities, including infrastructure, prepositioned equipment and supplies, and mobility assets, and other supporting logistics capabilities.

"(7) A summary of the readiness of the combat support and related agencies, any readiness problem or deficiency affecting any mission essential tasks of any such agency, and actions recommended to address any such problem or deficiency.

"(8) A list of all Class A, Class B, and Class C mishaps that occurred in operations related to combat support and training events involving aviation, ground, or naval platforms, weapons, space, or Government vehicles, as defined by Department of Defense Instruction 6055.07, or a successor instruction.

"(9) Information on the extent to which units of the armed forces have removed serviceable parts, supplies, or equipment from one vehicle, vessel, or

aircraft in order to render a different vehicle, vessel, or aircraft operational.

''(10) Such other information as determined necessary or appropriate by the Secretary of Defense.'';

(4) by striking subsections (d) through (h) and subsection (j);

(5) by redesignating subsection (i) as subsection (e); and

(6) by inserting after subsection (c) the following new subsections (d):

''(d) SEMI-ANNUAL JOINT FORCE READINESS REVIEW.—(1) Not later than 30 days after the last day of the first and third quarter of each calendar year, the Chairman of the Joint Chiefs of Staff shall submit to Congress a written report on the capability of the armed forces, the combat support and related agencies, operational contract support, and the geographic and functional combatant commands to execute their wartime missions based upon their posture and readiness as of the time the review is conducted.

''(2) The Chairman shall produce the report required under this subsection using information derived from the quarterly reports required by subsection (a).

"(3) Each report required by this subsection shall include an assessment by each commander of a geographic or functional combatant command of the readiness of the command to conduct operations in a multidomain battle that integrates ground, sea, air, space, cyber, and special operations forces.

"(4) The Chairman shall submit to the Secretary of Defense a copy of each report under this subsection.".

(c) CLERICAL AMENDMENT.—The table of sections at the beginning of chapter 23 of such title is amended by striking the item relating to section 482 and inserting the following new item:

"482. Readiness reports.".

SEC. 342. EXTENSION OF DEADLINE FOR TRANSITION FROM SERVICE-SPECIFIC DEFENSE READINESS REPORTING SYSTEMS.

Section 358(c) of the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Public Law 115–232) is amended by striking "October 1, 2019" and inserting "October 1, 2020".

SEC. 343. REPORT ON NAVY SHIP DEPOT MAINTENANCE BUDGET.

(a) IN GENERAL.—Not later than March 1 of each of 2020, 2021, and 2022, the Secretary of the Navy shall submit to the Committees on Armed Services of the Senate and the House of Representatives a report on the Op-

eration and Maintenance Ship Depot Maintenance budget sub-activity group.

(b) ELEMENTS.—The report required under subsection (a) shall include each of the following elements:

(1) A breakdown of funding, categorized by class of ship, requested for ship and submarine maintenance.

(2) A description of how the requested funding, categorized by class of ship, compares to the identified ship maintenance requirement.

(3) The amount of funds appropriated for each class of ship for the preceding fiscal year.

(4) The amount of funds obligated and expended for each class of ship for each of the three preceding fiscal years.

(5) The cost, categorized by class of ship, of unplanned growth work for each of the three preceding fiscal years.

SEC. 344. REPORT ON RUNIT DOME.

(a) REPORT REQUIRED.—Not later than 180 days after the date of the enactment of this Act, the Secretary of Energy, in coordination with the Administrator of the Environmental Protection Agency and Secretary of Defense, shall submit to the Committee on Energy and Commerce, the Committee on Natural Resources, and the

Committee on Armed Services of the House of Representatives and the Committee on Armed Services and the Committee on Energy and Natural Resources of the Senate a report on the status of the Runit Dome in the Marshal Islands.

(b) MATTERS FOR INCLUSION.—The report required by subsection (a) shall include each of the following:

(1) A detailed plan to remove the radioactive materials in the dome to a safer and more stable location, including a predicted timeline and associated costs.

(2) A detailed plan to repair the dome to ensure that it does not have any harmful effects to the local population, environment, or wildlife, including the projected costs of implementing such plan.

(3) The effects on the environment that the dome has currently and is projected to have in 5 years, 10 years, and 20 years.

(4) An assessment on the safety of food gathered from local food sources.

(5) An assessment of the current condition of the outer constructs of the dome.

(6) An assessment of the current and long-term safety to local humans posed by the site.

(7) How climate change and rising sea levels are predicted to affect the dome, including a description of projected scenarios if the dome becomes partially or fully submerged by ocean water.

(8) A summary of interactions between the Government of the United States and the government of the Marshall Islands about the dome.

(9) A detailed description of the physical health effects on Pacific Islanders, including residents of Hawaii, Fuji, and Samoa, of nuclear testing conducted at Runit Dome.

(10) A detailed description of the pre- and post-nuclear test communications between the United States and the governments of the territories and nations of the Pacific Islands, including Hawaii, Fuji, and Samoa.

(c) FORM OF REPORT.—The report required by subsection (a) shall be submitted in unclassified form and made publicly available.

Subtitle E—Other Matters

SEC. 351. INCLUSION OF OVER-THE-HORIZON RADARS IN EARLY OUTREACH PROCEDURES.

Section 183a(c)(6) of title 10, United States Code, is amended by striking ''or airport surveillance radar'' and

inserting ", airport surveillance radar, or wide area surveillance over-the-horizon radar".

SEC. 352. EXTENSION OF AUTHORITY FOR SECRETARY OF DEFENSE TO USE DEPARTMENT OF DEFENSE REIMBURSEMENT RATE FOR TRANSPORTATION SERVICES PROVIDED TO CERTAIN NON-DEPARTMENT OF DEFENSE ENTITIES.

Section 2642(b) of title 10, United States Code, is amended by striking "October 1, 2019" and inserting "October 1, 2024".

SEC. 353. EXPANDED TRANSFER AND ADOPTION OF MILITARY ANIMALS.

Section 2583 of title 10, United States Code, is amended—

(1) in subsection (a)—

(A) in the subsection heading, by inserting "TRANSFER OR" before "ADOPTION"; and

(B) by striking "adoption" each place it appears and inserting "transfer or adoption";

(2) in subsection (b)—

(A) in the subsection heading, by inserting "TRANSFER OR" before "ADOPTION";

(B) in the first sentence, by striking "adoption" and inserting "transfer or adoption"; and

(C) in the second sentence, by striking ''adoptability'' and inserting ''transferability or adoptability'';

(3) in subsection (c)(1)—

(A) in the matter preceding subparagraph (A), by inserting ''transfer or'' before ''adoption'';

(B) in subparagraphs (A) and (B), by inserting ''adoption'' before ''by'';

(C) in subparagraph (B), by inserting ''or organizations'' after ''persons''; and

(D) in subparagraph (C), by striking ''by'' and inserting ''transfer to'';

(4) in subsection (e)—

(A) in the subsection heading, by inserting ''OR ADOPTED'' after ''TRANSFERRED'';

(B) in paragraphs (1) and (2), by striking ''transferred'' each place it appears and inserting ''transferred or adopted''; and

(C) in paragraph (2), by striking ''transfer'' each place it appears and inserting ''transfer or adoption'';

(5) in subsection (f)—

(A) in the subsection heading, by striking ''TRANSFER OF RETIRED'' and inserting ''TRANSPORTATION OF RETIRING''; and

(B) in paragraph (1), by striking ''transfer'' and inserting ''transport'';

(6) in subsection (g)(3), by striking ''adoption of military working dogs'' and all that follows through the period at the end and inserting ''transfer of military working dogs to law enforcement agencies before the end of the dogs' useful working lives.''; and

(7) in subsection (h)(2), by striking ''A horse'' and inserting ''An equid (horse, mule, or donkey)''.

SEC. 354. EXTENSION OF AUTHORITY OF SECRETARY OF TRANSPORTATION TO ISSUE NON-PREMIUM AVIATION INSURANCE.

Section 44310(b) of title 49, United States Code, is amended by striking ''December 31, 2019'' and inserting ''September 30, 2023''.

SEC. 355. DEFENSE PERSONAL PROPERTY PROGRAM.

(a) ADVISORY GROUP.—

(1) ESTABLISHMENT.—There is established an advisory group on the defense personal property program, to be known as the ''Global Household Relocation Services Advisory Committee''.

(2) MEMBERSHIP.—The advisory group shall be comprised of 15 members appointed from among individuals who represent appropriate entities as follows:

(A) One member representing United States Transportation Command appointed by the Commander of United States Transportation Command.

(B) A flag or general officer of the Armed Forces representing each of the Army, Navy, Air Force, Marine Corps, and Coast Guard appointed by the Vice Chief of Staff of the Army, Vice Chief of Naval Operations, Vice Chief of Staff of the Air Force, the Assistant Commandant of the Marine Corps, and Vice Commandant of the Coast Guard, respectively.

(C) Four members representing appropriate transportation service providers, including two small business concerns, appointed by the Assistant Secretary of Defense for Sustainment.

(D) Five members representing consumer representatives who are members of the Armed Forces or spouses of members of the Armed Forces, one of whom is appointed by the senior

non-commissioned officer of each of the Army, Navy, Air Force, Marine Corps, and Coast Guard.

(3) MEETINGS.—The advisory group shall convene regularly to provide to the Secretary of Defense feedback on the execution of, and any recommended changes to, the global household goods contract.

(4) REPORTS.—

(A) QUARTERLY REPORTS.—Not later than 30 days after the last day of a fiscal quarter, the advisory group shall submit to the congressional defense committees a report on the activities and recommendations of the advisory group during such fiscal quarter.

(B) TERMINATION OF REPORT REQUIREMENT.—The requirement to submit a report under subparagraph (A) shall terminate on the termination date specified under paragraph (5)(A).

(5) TERMINATION.—The advisory group shall terminate on the date that is five years after the date of the enactment of this Act.

(b) BUSINESS CASE ANALYSIS.—Not later than 60 days after the date of the enactment of this Act, the Commander of United States Transportation Command shall

prepare a business case analysis for the proposed award of a global household goods contract for the defense personal property program.

(c) LIMITATION.—None of the funds authorized to be appropriated in this Act for fiscal year 2020 shall be available to enter into a global household goods contract until the date that is 30 days after the date on which the Commander of United States Transportation Command provides to the congressional defense committees a briefing on—

(1) the business case analysis required by subsection (b); and

(2) the proposed structure and meeting schedule for the advisory group established under subsection (a).

(d) DEFINITIONS.—In this section:

(1) The term ''global household goods contract'' means the solicitation managed by United States Transportation Command to engage a private entity to manage the defense personal property program.

(2) The term ''defense personal property program'' means the Department of Defense program used to manage the shipment of the baggage and household effects of members of the Armed Forces under section 476 of title 37, United States Code.

SEC. 356. PUBLIC EVENTS ABOUT RED HILL BULK FUEL STORAGE FACILITY.

(a) REQUIREMENT.—At least once every calendar quarter, the Secretary of the Navy, or the designee of the Secretary, shall hold an event that is open to the public at which the Secretary shall provide up-to-date information about the Red Hill Bulk Fuel Storage Facility.

(b) TERMINATION.—The requirement to hold events under subsection (a) shall terminate on the earlier of the following dates:

(1) September 30, 2025.

(2) The date on which the Red Hill Bulk Fuel Storage Facility ceases operation.

SEC. 357. SENSE OF CONGRESS REGARDING INNOVATIVE READINESS TRAINING PROGRAM.

It is the sense of Congress that—

(1) the Innovative Readiness Training program is an effective training program for members of the Armed Forces and is highly beneficial to civilian-military relationships with local American communities;

(2) due to the geographic complexities and realities of non-contiguous States and territories, Innovative Readiness Training has lent greater benefit to such States and territories while providing unique

and realistic training opportunities and deployment readiness for members of the Armed Forces;

(3) the Department of Defense should pursue continued Innovative Readiness Training opportunities, and, where applicable, strongly encourage the use of Innovative Readiness Training in non-contiguous States and territories; and

(4) in considering whether to recommend a project, the Secretary should consider the benefits of the project to the economy of a region damaged by natural disasters.

SEC. 358. PILOT PROGRAM ON REDUCTION OF EFFECTS OF MILITARY AVIATION NOISE ON PRIVATE RESIDENCES.

(a) IN GENERAL.—The Secretary of Defense shall carry out a five-year pilot program under which the commander of a military installation may provide funds for the purpose of installing noise insulation on private residences impacted by military aviation noise from the installation.

(b) ELIGIBILITY.—To be eligible to receive funds under the pilot program, a recipient shall enter into an agreement with the commander to—

(1) provide at least 50 percent of the funds required to carry out the noise insulation; and

(2) ensure that the noise at any private residence where insulation is installed is reduced by at least 5 dB.

(c) USE OF FUNDS.—Funds provided under the pilot program shall be used for the installation of noise insulation at a residence—

(1) located within a Department of Defense noise contour between 65 dB day-night average sound level and 75 dB day-night average sound level as validated on a National Environmental Policy Act-compliant assessment within the past three years; and

(2) where interior noise has been measured at 45 dB day-night average sound level by the installation.

(d) GOALS AND BEST PRACTICES.—In carrying out the pilot program under this section, a commander shall use the following goals and best practices:

(1) Minimize cost in order to maximize number of homes served.

(2) Focus efforts on residences newly impacted by increased noise levels.

TITLE IV—MILITARY PERSONNEL AUTHORIZATIONS

Subtitle A—Active Forces

SEC. 401. END STRENGTHS FOR ACTIVE FORCES.

The Armed Forces are authorized strengths for active duty personnel as of September 30, 2020, as follows:

(1) The Army, 480,000.

(2) The Navy, 340,500.

(3) The Marine Corps, 186,200.

(4) The Air Force, 332,800.

SEC. 402. REVISIONS IN PERMANENT ACTIVE DUTY END STRENGTH MINIMUM LEVELS.

Section 691(b) of title 10, United States Code, is amended by striking paragraphs (1) through (4) and inserting the following new paragraphs:

''(1) For the Army, 480,000.

''(2) For the Navy, 340,500.

''(3) For the Marine Corps, 186,200.

''(4) For the Air Force, 332,800.''.

Subtitle B—Reserve Forces

SEC. 411. END STRENGTHS FOR SELECTED RESERVE.

(a) IN GENERAL.—The Armed Forces are authorized strengths for Selected Reserve personnel of the reserve components as of September 30, 2020, as follows:

(1) The Army National Guard of the United States, 336,000.

(2) The Army Reserve, 189,500.

(3) The Navy Reserve, 59,000.

(4) The Marine Corps Reserve, 38,500.

(5) The Air National Guard of the United States, 107,700.

(6) The Air Force Reserve, 70,100.

(7) The Coast Guard Reserve, 7,000.

(b) END STRENGTH REDUCTIONS.—The end strengths prescribed by subsection (a) for the Selected Reserve of any reserve component shall be proportionately reduced by—

(1) the total authorized strength of units organized to serve as units of the Selected Reserve of such component which are on active duty (other than for training) at the end of the fiscal year; and

(2) the total number of individual members not in units organized to serve as units of the Selected Reserve of such component who are on active duty (other than for training or for unsatisfactory participation in training) without their consent at the end of the fiscal year.

(c) END STRENGTH INCREASES.—Whenever units or individual members of the Selected Reserve of any reserve

component are released from active duty during any fiscal year, the end strength prescribed for such fiscal year for the Selected Reserve of such reserve component shall be increased proportionately by the total authorized strengths of such units and by the total number of such individual members.

SEC. 412. END STRENGTHS FOR RESERVES ON ACTIVE DUTY IN SUPPORT OF THE RESERVES.

Within the end strengths prescribed in section 411(a), the reserve components of the Armed Forces are authorized, as of September 30, 2020, the following number of Reserves to be serving on full-time active duty or full-time duty, in the case of members of the National Guard, for the purpose of organizing, administering, recruiting, instructing, or training the reserve components:

(1) The Army National Guard of the United States, 30,595.

(2) The Army Reserve, 16,511.

(3) The Navy Reserve, 10,155.

(4) The Marine Corps Reserve, 2,386.

(5) The Air National Guard of the United States, 22,637.

(6) The Air Force Reserve, 4,431.

SEC. 413. END STRENGTHS FOR MILITARY TECHNICIANS (DUAL STATUS).

The minimum number of military technicians (dual status) as of the last day of fiscal year 2020 for the reserve components of the Army and the Air Force (notwithstanding section 129 of title 10, United States Code) shall be the following:

(1) For the Army National Guard of the United States, 22,294.

(2) For the Army Reserve, 6,492.

(3) For the Air National Guard of the United States, 13,573.

(4) For the Air Force Reserve, 8,848.

SEC. 414. MAXIMUM NUMBER OF RESERVE PERSONNEL AUTHORIZED TO BE ON ACTIVE DUTY FOR OPERATIONAL SUPPORT.

During fiscal year 2020, the maximum number of members of the reserve components of the Armed Forces who may be serving at any time on full-time operational support duty under section 115(b) of title 10, United States Code, is the following:

(1) The Army National Guard of the United States, 17,000.

(2) The Army Reserve, 13,000.

(3) The Navy Reserve, 6,200.

(4) The Marine Corps Reserve, 3,000.

(5) The Air National Guard of the United States, 16,000.

(6) The Air Force Reserve, 14,000.

Subtitle C—Authorization of Appropriations

SEC. 421. MILITARY PERSONNEL.

(a) AUTHORIZATION OF APPROPRIATIONS.—Funds are hereby authorized to be appropriated for fiscal year 2020 for the use of the Armed Forces and other activities and agencies of the Department of Defense for expenses, not otherwise provided for, for military personnel, as specified in the funding table in section 4401.

(b) CONSTRUCTION OF AUTHORIZATION.—The authorization of appropriations in the subsection (a) supersedes any other authorization of appropriations (definite or indefinite) for such purpose for fiscal year 2020.

TITLE V—MILITARY PERSONNEL POLICY

Subtitle A—Officer Personnel Policy

SEC. 501. MANAGEMENT POLICIES FOR JOINT QUALIFIED OFFICERS.

Section 661(d)(3)(B) of title 10, United States Code, is amended in the third sentence by inserting ''or a des-

ignee of the Chairman who is an officer of the armed forces in grade O-8 or higher'' before the period.

SEC. 502. GRADE OF CHIEF OF THE VETERINARY CORPS OF THE ARMY.

Section 7084 of title 10, United States Code, is amended by adding at the end the following: ''An officer appointed to that position who holds a lower grade shall be appointed in the grade of brigadier general.''

SEC. 503. AUTHORITY OF PROMOTION BOARDS TO RECOMMEND THAT OFFICERS OF PARTICULAR MERIT BE PLACED HIGHER ON PROMOTION LIST.

(a) IN GENERAL.—Section 14108 of title 10, United States Code, is amended by adding at the end the following new subsection:

''(f) HIGHER PLACEMENT OF OFFICERS OF PARTICULAR MERIT ON PROMOTION LIST.—(1) In selecting officers to be recommended for promotion, a promotion board may, when authorized by the Secretary concerned, recommend that officers of particular merit, from among those officers selected for promotion, be placed higher on the promotion list established by the Secretary under section 14308(a) of this title.

"(2) A promotion board may make a recommendation under paragraph (1) only if an officer receives the recommendation of—

"(A) a majority of the members of the promotion board; or

"(B) an alternative requirement established by the Secretary concerned and furnished to the promotion board as part of the guidelines under section 14107 of this title.

"(3) For officers who receive recommendations under paragraph (1), the board shall recommend the order in which those officers should be placed on the promotion list.".

(b) REPORTS REGARDING RECOMMENDATIONS THAT OFFICERS OF PARTICULAR MERIT BE PLACED HIGHER ON PROMOTION LIST.—Section 14109 of such title is amended by adding at the end the following new subsection:

"(d) REPORT OF OFFICERS RECOMMENDED FOR HIGHER PLACEMENT ON PROMOTION LIST.—A promotion board convened under section 14101(a) of this title shall, when authorized under section 14108(f) of this title, include in its report to the Secretary concerned—

"(1) the names of those officers the promotion board recommends be placed higher on the promotion list; and

"(2) the order in which the promotion board recommends those officers should be placed on the promotion list.".

(c) OFFICERS OF PARTICULAR MERIT APPEARING HIGHER ON PROMOTION LIST.—Section 14308(a) of such title is amended in the first sentence by inserting "or based on particular merit, as determined by the promotion board" before the period.

SEC. 504. AVAILABILITY ON THE INTERNET OF CERTAIN INFORMATION ABOUT OFFICERS SERVING IN GENERAL OR FLAG OFFICER GRADES.

(a) AVAILABILITY REQUIRED.—

(1) IN GENERAL.—The Secretary of each military department shall make available on an internet website of such department available to the public information specified in paragraph (2) on each officer in a general or flag officer grade under the jurisdiction of such Secretary, including any such officer on the reserve active-status list.

(2) INFORMATION.—The information on an officer specified by this paragraph to be made avail-

able pursuant to paragraph (1) is the information as follows:

(A) The officer's name.

(B) The officer's current grade, duty position, command or organization, and location of assignment.

(C) A summary list of the officer's past duty assignments while serving in a general or flag officer grade.

(b) ADDITIONAL PUBLIC NOTICE ON CERTAIN OFFICERS.—Whenever an officer in a grade of O–7 or above is assigned to a new billet or reassigned from a current billet, the Secretary of the military department having jurisdiction of such officer shall make available on an internet website of such department available to the public a notice of such assignment or reassignment.

(c) LIMITATION ON WITHHOLDING OF CERTAIN INFORMATION OR NOTICE.—

(1) LIMITATION.—The Secretary of a military department may not withhold the information or notice specified in subsections (a) and (b) from public availability pursuant to subsection (a), unless and until the Secretary notifies the Committees on Armed Services of the Senate and House of Representatives in writing of the information or notice

that will be so withheld, together with justification for withholding the information or notice from public availability.

(2) LIMITED DURATION OF WITHHOLDING.—The Secretary concerned may withhold from the public under paragraph (1) information or notice on an officer only on the basis of individual risk or national security, and may continue to withhold such information or notice only for so long as the basis for withholding remains in force.

Subtitle B—Reserve Component Management

SEC. 511. GRADE OF CERTAIN CHIEFS OF RESERVE COMPONENTS.

(a) IN GENERAL.—

(1) CHIEF OF ARMY RESERVE.—Section 7038(b)(1) of title 10, United States Code, is amended by striking ''general officers of the Army Reserve'' and inserting ''officers of the Army Reserve in the grade of lieutenant general and''.

(2) CHIEF OF NAVY RESERVE.—Section 8083(b)(1) of such title is amended by striking ''flag officers of the Navy (as defined in section 8001(1))'' and inserting ''officers of the Navy Reserve in the grade of vice admiral and''.

(3) COMMANDER, MARINE FORCES RESERVE.—Section 8084(b)(1) of such title is amended by striking ''general officers of the Marine Corps (as defined in section 8001(2))'' and inserting ''officers of the Marine Corps Reserve in the grade of lieutenant general and''.

(4) CHIEF OF AIR FORCE RESERVE.—Section 9038(b)(1) of such title is amended by striking ''general officers of the Air Force Reserve'' and inserting ''officers of the Air Force Reserve in the grade of lieutenant general and''.

(b) EFFECTIVE DATE.—The amendments made under subsection (a) shall take effect on the date that is one year after the date of the enactment of this Act and shall apply to appointments made after such date.

SECTION 512. AUTHORITY TO DEFER MANDATORY SEPARATION AT AGE 68 OF OFFICERS IN MEDICAL SPECIALTIES IN THE RESERVE COMPONENTS.

Section 14703(b) of title 10, United States Code, is amended—

(1) by striking ''An'' and inserting ''(1) Subject to paragraph (2), an''; and

(2) by adding at the end the following new paragraph (2):

"(2) The Secretary concerned may, with the consent of the officer, retain in an active status an officer in a medical specialty described in subsection (a) beyond the date described in paragraph (1) of this subsection if the Secretary concerned determines that such retention is necessary to the military department concerned. Each such retention shall be made on a case-by-case basis and for such period as the Secretary concerned determines appropriate.".

SEC. 513. REPEAL OF REQUIREMENT FOR REVIEW OF CERTAIN ARMY RESERVE OFFICER UNIT VACANCY PROMOTIONS BY COMMANDERS OF ASSOCIATED ACTIVE DUTY UNITS.

Section 1113 of the Army National Guard Combat Readiness Reform Act of 1992 (Public Law 102–484; 10 U.S.C. 10105 note) is repealed.

SEC. 514. GUIDANCE FOR USE OF UNMANNED AIRCRAFT SYSTEMS BY THE NATIONAL GUARD.

(a) NEW GUIDANCE.—Not later than 90 days after the date of the enactment of this Act, the Secretary of Defense shall issue new guidance that treats the use of unmanned aircraft systems by the National Guard for covered activities in a manner no more restrictive than the use of other aircraft for covered activities.

(b) COVERED ACTIVITIES DEFINED.—In this section, ''covered activities'' means the following:

(1) Emergency operations.

(2) Search and rescue operations.

(3) Defense support to civil authorities.

(4) Support under section 502(f) of title 32, United States Code.

SEC. 515. JUNIOR RESERVE OFFICERS' TRAINING CORPS.

(a) IN GENERAL.—Section 2031(b)(3) of title 10, United States Code, is amended by inserting ''and which may include instruction or activities in the fields of science, technology, engineering, and mathematics'' after ''duration''.

(b) EFFECTIVE DATE.—The amendment made by subsection (a) shall take effect 180 days after the date of the enactment of this Act.

SEC. 516. JROTC COMPUTER SCIENCE AND CYBERSECURITY PROGRAM.

Chapter 102 of title 10, United States Code, is amended by adding at the end the following new section:

''§ 2036. Computer science and cybersecurity program

''(a) PROGRAM AUTHORIZED.—The Secretary of Defense may carry out a program to enhance the preparation

of students in the Junior Reserve Officers' Training Corps for careers in computer science and cybersecurity.

"(b) COORDINATION.—In carrying out the program, the Secretary shall coordinate with the following:

"(1) The Secretaries of the military departments.

"(2) The Secretary of Education.

"(3) The National Science Foundation.

"(4) The heads of such other Federal, State, and local government entities the Secretary of Defense determines appropriate.

"(5) Private sector organizations the Secretary of Defense determines appropriate.

"(c) ACTIVITIES.—Activities under the program may include the following:

"(1) Establishment of targeted internships and cooperative research opportunities in computer science and cybersecurity at defense laboratories and other technical centers for students in and instructors of the Junior Reserve Officers' Training Corps.

"(2) Funding for training and other supports for instructors to teach evidence-based courses in computer science and cybersecurity to students.

"(3) Efforts and activities that improve the quality of cybersecurity and computer science edu-

cational, training opportunities, and curricula for students and instructors.

''(4) Development of travel opportunities, demonstrations, mentoring programs, and informal computer science and cybersecurity education for students and instructors.

''(d) METRICS.—The Secretary shall establish outcome-based metrics and internal and external assessments to evaluate the merits and benefits of activities conducted under the program with respect to the needs of the Department of Defense.

''(e) AUTHORITIES.—In carrying out the program, the Secretary shall, to the maximum extent practicable, make use of the authorities under section 2193b, chapter 111, and sections 2601, 2605, and 2374a of this title, section 219 of the Duncan Hunter National Defense Authorization Act for Fiscal Year 2009 (Public Law 110–417; 10 U.S.C. 2358 note), and other authorities the Secretary determines appropriate.

''(f) REPORT.—Not later than two years after the date of the enactment of the National Defense Authorization Act for Fiscal Year 2020, the Secretary shall submit to the Committees on Armed Services of the Senate and the House of Representatives a report on activities carried out under the program.''.

SEC. 517. PROGRAMS OF SCHOLARSHIPS FOR MEMBERS OF JUNIOR RESERVE OFFICERS' TRAINING CORPS UNITS TOWARD OBTAINING PRIVATE PILOT'S CERTIFICATES.

(a) PROGRAMS AUTHORIZED.—Each Secretary of a military department may carry out a program to award scholarships to qualified members of units of the Junior Reserve Officers' Training Corps under the jurisdiction of such Secretary to assist such members in obtaining a private pilot's certificate through an institution of higher education with an accredited aviation program that is approved by such Secretary pursuant to subsection (c).

(b) MEMBER QUALIFICATIONS.—

(1) IN GENERAL.—In carrying out a program under subsection (a), the Secretary of a military department shall prescribe the standards to be met by members of units of the Junior Reserve Officers' Training Corps under the jurisdiction of such Secretary to be eligible for the award of a scholarship under the program.

(2) UNIFORMITY ACROSS MILITARY DEPARTMENTS.—To the extent practicable, the standards prescribed under this subsection shall be uniform across the military departments.

(c) APPROVED INSTITUTIONS OF HIGHER EDUCATION.—

(1) IN GENERAL.—In carrying out a program under subsection (a), the Secretary of a military department shall maintain a list of institutions of higher education (as that term is defined in section 101 of the Higher Education Act of 1965 (20 U.S.C. 1001)) at which a scholarship awarded under the program may be used toward obtaining a private pilot's certificate.

(2) QUALIFICATIONS AND STANDARDS.—Any institution of higher education included on a list under this subsection, and any course of instruction toward obtaining a private pilot's certificate offered by such institution, shall meet such qualifications and standards as the Secretary shall prescribe for purposes of the program. Such qualifications and standards shall include a requirement that any institution included on the list award academic credit at such institution to any member awarded a scholarship under the program for work (whether or not fully completed) on the ground school course of instruction of such institution in connection with obtaining a private pilot's certificate.

(d) SCHOLARSHIP.—

(1) AMOUNT.—The amount of the scholarship awarded a member of a Junior Reserve Officers'

Training Corps under a program under subsection (a) shall be such amount as the Secretary of the military department concerned considers appropriate to defray, whether in whole or in part, the charges and fees of a course of instruction toward obtaining a private pilot's certificate offered by the institution of higher education to be attended by the member in obtaining the certificate.

(2) USE.—A scholarship awarded a member under a program may be used by the member only to defray the charges and fees of an institution of higher education for a course of instruction toward obtaining a private pilot's certificate.

(3) MAINTENANCE OF MEMBERSHIP.—A scholarship awarded an individual under a program may be used by the individual only while the individual maintains membership in a unit of a Junior Reserve Officers' Training Corps.

(e) ANNUAL REPORTS ON PROGRAMS.—

(1) IN GENERAL.—Not later than February 28, 2021, and each year thereafter, each Secretary of a military department shall submit to Congress a report on the program, if any, carried out by such Secretary during the preceding calendar year.

(2) ELEMENTS.—Each report under paragraph (1) shall include, for the program and year covered by such report, the following:

(A) The number of scholarships awarded.

(B) The total amount of scholarships awarded.

(C) The work undertaken through such scholarships, including the number of recipients who fully completed a ground school course of instruction in connection with obtaining a private pilot's certificate.

(f) ASSESSMENT OF RELATED PILOT PROGRAM.—

(1) IN GENERAL.—Not later than 180 days after the date of the enactment of this Act, the Secretary of Defense shall submit to Congress a report setting forth the results of an assessment, conducted by the study group described in paragraph (2) for purposes of the report, of the pilot program conducted by the Air Force in 2018 and 2019 known as the "Air Force JROTC Flight Academy, Chief of Staff Private Pilot Scholarship Program".

(2) STUDY GROUP.—The study group described in this paragraph shall include the following:

(A) A representative of the Department of Defense, selected by the Secretary of Defense.

(B) A representative of the headquarters of the Air Force Junior Reserve Officers' Training Corps with experience with the pilot program, selected by the Secretary of the Air Force.

(C) In addition to the representative under subparagraph (B), a representative of each military department, selected by the Secretary of such military department.

(D) A representative of the Department of Transportation, selected by the Secretary of Transportation.

(E) A representative of the Department of Education, selected by the Secretary of Education.

(F) Representatives of such private organizations and entities as the Secretary of Defense considers appropriate.

(3) ELEMENTS.—The assessment required by paragraph (1) shall identify best practices in assisting members of the Junior Reserve Officers' Training Corps in obtaining a private pilot's certificate through institutions of higher education, including the most appropriate funding mechanisms for such practices.

SEC. 518. SENSE OF CONGRESS REGARDING JUNIOR RESERVE OFFICERS' TRAINING CORPS.

It is the sense of Congress that—

(1) the Junior Reserve Officers' Training Corps (referred to in this section as "JROTC") contributes to an enhanced sense of pride in our Nation and in the members of the Armed Forces who serve;

(2) JROTC develops a culture dedicated to service of our great land and reinforces duty, honor and courage;

(3) the Nation has been steadily depending on a smaller and smaller minority of the population to fight its wars and protect its borders;

(4) this dwindling population risks the long-term security of our Nation and the freedoms it provides;

(5) JROTC operates in all 50 States and contributes to better grades and graduation rates; and

(6) JROTC was supported in the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Public Law 115–232) and should be increased in fiscal year 2020, including at least 3,700 JROTC units nationwide.

SEC. 519. SENSE OF CONGRESS REGARDING THE NATIONAL GUARD YOUTH CHALLENGE PROGRAM.

It is the sense of Congress that—

(1) the National Guard Youth Challenge Program provides a vital service to at-risk youth by providing life-changing mentorship, developing self-discipline, and providing education in valuable skills; and

(2) the Secretary of Defense should use the authority provided under section 509(h)(2) of title 32, United States Code, to allow Department of Defense equipment and facilities to be used by the National Guard to maximize the support of the Department for the Youth Challenge Program.

Subtitle C—General Service Authorities and Correction of Military Records

SEC. 521. ESTABLISHMENT OF BOARD OF APPEALS REGARDING DENIED REQUESTS FOR UPGRADED DISCHARGES AND DISMISSALS.

(a) ESTABLISHMENT.—Chapter 79 of title 10, United States Code, is amended by inserting after section 1553 the following new section 1553a:

"§ 1553a. Board of Discharge Appeals

''(a) ESTABLISHMENT.—(1) The Secretary of Defense shall establish a Board of Discharge Appeals to hear appeals of requests for upgraded discharges and dismis-

sals under section 1553 of this title that are denied by the service review agencies.

''(2) The Board of Discharge Appeals shall consist of not fewer than three members appointed by the Secretary.

''(b) APPEAL.—(1) Upon the request of an appellant, the Board of Discharge Appeals shall review the findings and decisions of a service review agency regarding the review of the discharge or dismissal of the appellant.

''(2) The Board of Discharge Appeals may direct the Secretary of the military department concerned to change the discharge or dismissal of an appellant, or issue a new discharge for an appellant, to reflect its findings.

''(c) DEFINITIONS.—In this section:

''(1) The term 'appellant' means a former member of the armed forces (or if the former member is dead, the surviving spouse, next of kin, or legal representative of the former member) whose request for an upgraded discharge or dismissal was denied by a service review agency.

''(2) The term 'service review agency' has the meaning given that term in section 1555 of this title.''.

(b) TECHNICAL AND CONFORMING AMENDMENTS.—

(1) TABLE OF SECTIONS.—The table of sections at the beginning of such chapter is amended by inserting after the item relating to section 1553 the following new item:

"1553a. Board of Discharge Appeals.".

(2) CONFORMING AMENDMENT.—Section 1553(b) of title 10, United States Code, is amended—

(A) by inserting "(1)" before "A board"; and

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

"(2) If a board of review established by the Secretary of a military department denies a request for an upgraded discharge or dismissal, that denial may be appealed to the Board of Discharge Appeals under section 1553a of this title.".

(c) DEADLINE.—The Secretary of Defense shall establish and implement the Board of Discharge Appeals under such section 1553a of title 10, United States Code, as added by subsection (a), not later than September 30, 2020.

(d) TRAINING.—Each member of the Board of Discharge Appeals established under such section 1553a shall receive training under section 534(c) of the National De-

fense Authorization Act for Fiscal Year 2017 (Public Law 114–328; 10 U.S.C. 1552 note).

(e) REPORTING.—

(1) REPORT.—Not later than April 1, 2021, the Secretary of Defense shall submit to the Committees on Armed Services of the Senate and the House of Representatives a report regarding the Board of Discharge Appeals established under such section 1553a. The report shall include, with respect to appeals heard by the Board of Discharge Appeals since implementation, the following:

(A) The number of appeals heard.

(B) The number of appeals granted.

(C) The number of appeals denied, including the reasons for such denials.

(D) A summary of any differences between reviews under section 1553 of title 10, United States Code, and appeals under section 1553a of such title.

(2) ONLINE PUBLICATION.—On October 1 of each year starting in 2022, the Secretary shall publish online the information described in subparagraphs (A), (B), and (C) of paragraph (1) with regards to the preceding fiscal year.

SEC. 522. PROHIBITION ON REDUCTION IN THE NUMBER OF PERSONNEL ASSIGNED TO DUTY WITH A SERVICE REVIEW AGENCY.

(a) PROHIBITION.—Section 1559(a) of title 10, United States Code, is amended—

(1) by striking ''December 31, 2019'' and inserting ''December 31, 2025'';

(2) by striking ''that agency until—'' and inserting ''that agency.''; and

(3) by striking subsections (1) and (2).

(b) REPORT.—

(1) REPORT REQUIRED.—Not later than 180 days after the enactment of this Act, the Secretary of each military department shall submit a report to the Committees on Armed Services of the Senate and House of Representatives that details a plan to—

(A) reduce the backlog of applications before the service review agency of the military department concerned; and

(B) maintain the resources required to meet the timeliness standards for disposition of applications before the Corrections Boards under section 1557 of title 10, United States Code, not later than October 1, 2021.

(2) ELEMENTS.—Each report under this subsection shall include the following:

(A) A description of the current backlog of applications before the service review agency of the military department concerned.

(B) The number of personnel required to meet the deadline described in paragraph (1)(B).

(C) The plan of the Secretary concerned to modernize the application and review system of the service review agency of the military department concerned.

SEC. 523. ADVISORY COMMITTEE ON RECORD AND SERVICE REVIEW BOARDS.

(a) ESTABLISHMENT.—Not later than 180 days after the date of the enactment of this Act, the Secretary of Defense shall establish a Department of Defense Advisory Committee to be known as the ''Defense Advisory Committee on Record and Upgrade Review Boards'' (in this section referred to as the ''Advisory Committee'').

(b) MEMBERSHIP.—

(1) IN GENERAL.—The Advisory Committee shall consist of not more than 15 members appointed by the Secretary of Defense, eight of whom shall be civilian practitioners or representatives of

organizations that have experience assisting members of the Armed Forces and veterans with cases before service review boards (as that term is defined in section 1555 of title 10, United States Code).

(2) MEMBERS OF THE ARMED FORCES ON ACTIVE DUTY INELIGIBLE.—A member of the Armed Forces serving on active duty may not serve as a member of the Advisory Committee.

(c) PERSONNEL.—

(1) EXPERIENCE REQUIRED.—At least 35 percent of members of the staff of the Advisory Committee shall have experience described in subsection (b)(1).

(2) DIRECTOR; ASSISTANT DIRECTOR.—The director and assistant director of the Advisory Committee may not both be members of the Armed Forces serving on active duty.

(3) STAFF.—Not more than 65 percent of the staff of the Advisory Committee may be comprised of members of the Armed Forces serving on active duty.

(d) DUTIES.—The Advisory Committee shall advise the Secretary of Defense on the best structure, practices, and procedures to ensure consistency of boards for the correction of military records and service review boards

in carrying out their responsibilities under chapter 79 of title 10, United States Code, and in granting relief to claimants under that chapter.

(e) ANNUAL REPORT.—Not later than one year after the date of the establishment of the Advisory Committee and annually thereafter for the three subsequent years, the Advisory Committee shall submit to the Secretary of Defense and the congressional defense committees a report containing observations and recommendations regarding issues of board operations and efficacy, including—

(1) granting relief at adequate rates;

(2) adhering to the intent of Congress, including regarding liberal consideration;

(3) standards for evidence, training experience and qualifications of board members;

(4) efficacy of efforts to ensure consistency across boards;

(5) case management and record keeping systems, including electronic access to board precedents;

(6) ease of personal appearances by claimants;

(7) expert review of medical and psychiatric cases; and

(8) related potential structural changes or alternative board models.

(f) TERMINATION.—The Advisory Committee shall terminate on the date that is four years after the date of establishment under subsection (a).

(g) AUTHORITIES.—The Advisory Committee shall have all normal authorities granted to advisory committees, including the ability for staff to request documents from the Department of Defense, hold public hearings, and travel in furtherance of the board mandate. The board shall also be permitted, with assistance from personnel of the Department of Defense, to administer surveys and conduct field experiments to assess the viability of different policy options considered in the course of the activities of the Advisory Committee.

SEC. 524. TIME REQUIREMENTS FOR CERTIFICATION OF HONORABLE SERVICE.

Upon the submission to the Secretary of a military department or a designated commissioned officer serving in the pay grade O-6 or higher by a member of the Armed Forces of a completed United States Citizenship and Immigration Services Form N–426, the Secretary or the Officer shall—

(1) in the case of a member of the Armed Forces who has served or is serving honorably on ac-

tive duty, provide certification that the nature of the member's service has been honorable by not later than five days from receiving the form;

(2) in the case of a member of the Armed Forces who has served or is serving honorably in a Reserve Component of the Armed Forces, provide such certification by not later than three weeks from receiving the form; and

(3) in the case of a member of the Armed Forces whose service has been other than honorable, provide to the member notice that a certification of honorable service will not be provided and justification for why such certification will not be provided—

(A) in the case of a member who has served or is serving on active duty, by not later than five days from receiving the form; and

(B) in the case of a member who has served or is serving in a Reserve Component, by not later than three weeks from receiving the form.

SEC. 525. PROHIBITION ON IMPLEMENTATION OF MILITARY SERVICE SUITABILITY DETERMINATIONS FOR FOREIGN NATIONALS WHO ARE LAWFUL PERMANENT RESIDENTS.

The Secretary of Defense may not take any action to implement the memorandum titled ''Military Service Suitability Determinations for Foreign Nationals Who Are Lawful Permanent Residents'', issued by the Secretary and dated October 13, 2017, until the Secretary reports to the congressional defense committees the justification for the policy changes required by such memorandum.

SEC. 526. STRATEGIC PLAN FOR DIVERSITY AND INCLUSION.

(a) PLAN REQUIRED.—The Secretary of Defense shall design and implement a five-year strategic plan for diversity and inclusion in the Department of Defense.

(b) ELEMENTS.—The strategic plan under this section—

(1) shall be based on the strategic plan established under section 2 of Executive Order 13583 (3 Fed. Reg. 13583 (August 18, 2011));

(2) shall incorporate existing efforts to promote diversity and inclusion within the Department; and

(3) may not conflict with the objectives of the 2018 National Military Strategy.

(c) DEADLINE.—The Secretary shall implement the strategic plan under this section on January 1, 2020.

SEC. 527. INDEPENDENT STUDY ON BARRIERS TO ENTRY INTO THE ARMED FORCES FOR ENGLISH LEARNERS.

(a) INDEPENDENT STUDY.—Not later than 30 days after the date of the enactment of this Act, the Secretary of Defense shall seek to seek to enter into a contract with a federally funded research and development center under which the center will conduct a study on barriers to entry into the Armed Forces for English learners.

(b) ELEMENTS.—The study under subsection (a) shall—

(1) identify barriers to entry into the Armed Forces for English learners, including—

(A) challenges with military recruiters and language proficiency;

(B) challenges with the assessment of potential recruits, including the construction and delivery of and testing time constraints related to the Armed Services Vocational Aptitude Battery;

(C) challenges with dissemination of recruiting information; and

(D) any other challenges that may be identified by the federally funded research and development center in the course of the study;

(2) the effect of such barriers on—

(A) the number of interactions recruiters have with English learners;

(B) the enlistment rate among populations of English learners; and

(C) any other effects that may be identified by the federally funded research and development center in the course of the study;

(3) an analysis of existing efforts and programs to remove barriers to entry into the Armed Forces for English learners, including an analysis of the scalability and sustainability of such efforts and programs; and

(4) additional opportunities to address such barriers, including alternative assessments and Armed Services Vocational Aptitude Battery preparation programs for English learners.

(c) SUBMITTAL TO DEPARTMENT OF DEFENSE.—Not later than 270 days after the date of the enactment of this Act, the federally funded research and development that conducts the study under subsection (a) shall submit

to the Secretary of Defense a report on the results of the study.

(d) SUBMITTAL TO CONGRESS.—Not later than 30 days after the date on which the Secretary of Defense receives the report under subsection (c), the Secretary shall submit to the congressional defense committees an unaltered copy of the report and any comments of the Secretary with respect to the report.

(e) ENGLISH LEARNER DEFINED.—In this section, the term ''English learner'' has the meaning given that term in section 8101 of the Elementary and Secondary Education Act of 1965 (20 U.S.C. 7801).

SEC. 528. REENLISTMENT WAIVERS FOR PERSONS SEPARATED FROM THE ARMED FORCES WHO COMMIT ONE MISDEMEANOR CANNABIS OFFENSE.

(a) IN GENERAL.—Not later than 90 days after the date of the enactment of this Act, the Secretary of Defense shall prescribe regulations that permit any Secretary of a military department to grant a reenlistment waiver to a covered person if the Secretary determines that the reenlistment of that covered person is vital to the national interest.

(b) DEFINITIONS.—In this section:

(1) The term ''covered person'' means an individual—

(A) who has separated from the Armed Forces; and

(B) who has admitted to or been convicted by a court of competent jurisdiction of a single violation—

(i) of any law of a State or the United States relating to the use or possession of cannabis;

(ii) that constitutes a misdemeanor; and

(iii) that occurred while that individual was not on active service in the Armed Forces.

(2) The terms ''active service'' and ''military department'' have the meanings given such terms in section 101 of title 10, United States Code.

SEC. 529. SENSE OF CONGRESS REGARDING ACCESSION PHYSICALS.

(a) FINDINGS.—Congress finds the following:

(1) United States Military Entrance Processing Command (''USMEPCOM'') operates 65 Military Entrance Processing Stations (''MEPS'') dispersed throughout the 50 States and Puerto Rico.

(2) Applicants for accession into the Armed Forces must travel to the closest MEPS to receive

physical examinations, are often driven by a military recruiter, and receive lodging at a nearby hotel, paid for by the Armed Force represented by that recruiter.

(3) In 2015, USMEPCOM reported that 473,000 applicants from the military and other agencies processed through the 65 MEPS, for a total of 931,000 MEPS visits.

(4) Section 1703 of title 38, United States Code, authorizes the Secretary of Veterans Affairs to enter into contracts with private health care providers for physical examinations.

(b) SENSE OF CONGRESS.—It is the sense of Congress that the Secretary of Defense should explore alternatives to centralized accession physicals at MEPS, including conducting physicals through community health care providers, in order to reduce transportation costs, increase efficiency in processing times, and free recruiters to focus on the core of the recruiting mission.

Subtitle D—Military Justice

SEC. 531. COMMAND INFLUENCE.

(a) IN GENERAL.—Section 837 of title 10, United States Code (article 37 of the Uniform Code of Military Justice), is amended—

(1) by striking "**Unlawfully influencing action of court**" and inserting "**Command influence**";

(2) by amending subsection (a) to read as follows:

"(a)(1) No court-martial convening authority, nor any other commanding officer, may censure, reprimand, or admonish the court or any member, military judge, or counsel thereof, with respect to the findings or sentence adjudged by the court, or with respect to any other exercise of its or his functions in the conduct of the proceeding.

"(2) No court-martial convening authority, nor any other commanding officer, may deter or attempt to deter a potential witness from participating in the investigatory process or testifying at a court-martial. The denial of a request to travel at government expense or refusal to make a witness available shall not by itself constitute unlawful command influence.

"(3) No person subject to this chapter may attempt to coerce or, by any unauthorized means, attempt to influence the action of a court-martial or any other military tribunal or any member thereof, in reaching the findings or sentence in any case, or the action of any convening, approving, or reviewing authority or preliminary hearing

officer with respect to such acts taken pursuant to this chapter as prescribed by the President.

''(4) Paragraphs (1) through (3) shall not apply with respect to—

''(A) general instructional or informational courses in military justice if such courses are designed solely for the purpose of instructing members of a command in the substantive and procedural aspects of courts-martial;

''(B) statements regarding criminal activity or a particular criminal offense that do not advocate a particular disposition, or a particular court-martial finding, or sentence; or

''(C) statements and instructions given in open court by the military judge or counsel.

''(5)(A) Notwithstanding paragraphs (1) through (3), but subject to subparagraph (B)—

''(i) a superior convening authority or officer may generally discuss matters to consider regarding the disposition of alleged violations of this chapter with a subordinate convening authority or officer; and

''(ii) a subordinate convening authority or officer may seek advice from a superior convening au-

thority or officer regarding the disposition of an alleged offense under this chapter.

''(B) No superior convening authority or officer may direct a subordinate convening authority or officer to make a particular disposition in a specific case or otherwise substitute the discretion of such authority or such officer for that of the subordinate convening authority or officer.'';

(3) in subsection (b)—

(A) by striking ''advanced, in grade'' and inserting ''advanced in grade''; and

(B) by striking ''accused before a court-martial'' and inserting ''person in a court-martial proceeding''; and

(4) by adding at the end the following new subsections:

''(c) No finding or sentence of a court-martial may be held incorrect on the ground of a violation of this section unless the violation materially prejudices the substantial rights of the accused.

''(d)(1) A superior convening authority or commanding officer may withhold the authority of a subordinate convening authority or officer to dispose of offenses in individual cases, types of cases, or generally.

"(2) Except as provided in paragraph (1) or as otherwise authorized by this chapter, a superior convening authority or commanding officer may not limit the discretion of a subordinate convening authority or officer to act with respect to a case for which the subordinate convening authority or officer has authority to dispose of the offenses.".

(b) CLERICAL AMENDMENT.—The table of sections at the beginning subchapter VII of chapter 47 of title 10, United States Code (the Uniform Code of Military Justice), is amended by striking the item relating to section 837 (article 37) and inserting the following new item:

"837. Art. 37. Command influence.".

(c) EFFECTIVE DATE.—The amendments made by subsections (a) and (b) shall take effect on the date of the enactment of this Act and shall apply with respect to violations of section 837 of title 10, United States Code (article 37 of the Uniform Code of Military Justice), committed on or after such date.

SEC. 532. STATUTE OF LIMITATIONS FOR CERTAIN OFFENSES.

(a) IN GENERAL.—Section 843 of title 10, United States Code (article 43 of the Uniform Code of Military Justice), is amended—

(1) in subsection (a), by inserting "maiming of a child, kidnapping of a child," after "sexual assault of a child,"; and

(2) in subsection (b)(2)(B)—

(A) by striking clauses (ii) and (iv); and

(B) by redesignating clause (iii) as clause (ii).

(b) EFFECTIVE DATE.—The amendments made by subsection (a) shall take effect on the date of the enactment of this Act and shall apply with respect to the prosecution of offenses committed before, on, or after the date of the enactment of this Act if the applicable limitation period has not yet expired.

SEC. 533. GUIDELINES ON SENTENCES FOR OFFENSES COMMITTED UNDER THE UNIFORM CODE OF MILITARY JUSTICE.

(a) GUIDELINES REQUIRED.—Not later than the date specified in subsection (c), the Secretary of Defense shall establish nonbinding guidelines on sentences for offenses under chapter 47 of title 10, United States Code (the Uniform Code of Military Justice). The guidelines shall provide the sentencing authority with a suggested range of punishments, including suggested ranges of confinement, that will generally be appropriate for a violation of each offense under such chapter.

(b) SENTENCING DATA.—In developing the guidelines for sentences under subsection (a), the Secretary of Defense shall take into account the sentencing data col-

lected by the Military Justice Review Panel pursuant to section 946(f)(2) of title 10, United States Code (article 146(f)(2) of the Uniform Code of Military Justice).

(c) DATE SPECIFIED.—The date specified in this subsection is the date that is not later than one year after the date on the which the first report of the Military Justice Review Panel is submitted to the Committees on Armed Services of the Senate and the House of Representatives pursuant to section 946(f)(5) of title 10, United States Code (article 146(f)(5) of the Uniform Code of Military Justice).

SEC. 534. EXPANSION OF RESPONSIBILITIES OF COMMANDERS FOR VICTIMS OF SEXUAL ASSAULT COMMITTED BY ANOTHER MEMBER OF THE ARMED FORCES.

(a) NOTIFICATION OF VICTIMS OF EVENTS IN MILITARY JUSTICE PROCESS.—

(1) NOTIFICATION REQUIRED.—The commander of a member of the Armed Forces who is the alleged victim of sexual assault committed by another member of the Armed Forces shall provide notification to such alleged victim of every key or other significant event in the military justice process in connection with the investigation, prosecution, and

confinement of such other member for sexual assault.

(2) DOCUMENTATION.—Each commander described in paragraph (1) shall create and maintain appropriate documentation on any notification provided as described in that paragraph.

(b) DOCUMETATION OF VICTIM'S PREFERENCE ON JURISDICTION IN PROSECUTION.—In the case of a member of the Armed Forces who is the alleged victim of sexual assault committed by another member of the Armed Forces who is subject to prosecution for such offense both by court-martial under chapter 47 of title 10, United States Code (the Uniform Code of Military Justice), and by a civilian court under State law, the commander of such alleged victim shall create and maintain appropriate documentation of the expressed preference, if any, of such alleged victim for prosecution of such offense by court-martial or by a civilian court as provided for by Rule 306(e) of the Rules for Court-Martial.

(c) REGULATIONS.—The Secretary of Defense shall prescribe in regulations the requirements applicable to each of the following:

(1) Notifications under subsection (a)(1).

(2) Documentation under subsection (a)(2).

(3) Documentation under subsection (b).

SEC. 535. INCREASE IN INVESTIGATIVE PERSONNEL AND VICTIM WITNESS ASSISTANCE PROGRAM LIAISONS.

(a) MILITARY CRIMINAL INVESTIGATIVE SERVICES.—

(1) MINIMUM STAFFING LEVEL.—Not later than one year after the date of the enactment of this Act, the Secretary of each military department shall ensure that the number of personnel assigned to the military criminal investigative services of the department is sufficient to ensure, to the extent practicable, that the investigation of any sex-related offense is completed not later than six months after the date on which the investigation is initiated.

(2) STATUS REPORTS REQUIRED.—Not later than one year after the date of the enactment of this Act, Secretary of each military department shall issue guidance requiring that any criminal investigator of the department who is assigned to investigate a sex-related offense submits a status report to the direct supervisor of such investigator in the event that the investigation of such offense exceeds 90 days in duration. Each status report shall include—

(A) a detailed explanation of the status of the investigation;

(B) identification of any information that has not yet been obtained but is necessary to complete the investigation; and

(C) identification of any barriers preventing the investigator from accessing such information.

(b) VICTIM WITNESS ASSISTANCE PROGRAM LIAISONS.—Not later than one year after the date of the enactment of this Act, the Secretary of each military department shall increase the number of personnel serving as Victim Witness Assistance Program liaisons to address personnel shortages in the Victim Witness Assistance Program.

SEC. 536. INCREASE IN NUMBER OF DIGITAL FORENSIC EXAMINERS FOR THE MILITARY CRIMINAL INVESTIGATION ORGANIZATIONS.

(a) IN GENERAL.—Each Secretary of a military department shall take appropriate actions to increase the number of digital forensic examiners in each military criminal investigation organization (MCIO) under the jurisdiction of such Secretary by not fewer than 10 from the authorized number of such examiners for such organization as of September 30, 2019.

(b) MILITARY CRIMINAL INVESTIGATION ORGANIZATIONS.—For purposes of this section, the military criminal investigation organizations are the following:

(1) The Army Criminal Investigation Command.

(2) The Naval Criminal Investigative Service.

(3) The Air Force Office of Special Investigations.

(4) The Marine Corps. Criminal Investigation Division.

(c) FUNDING.—Funds for additional digital forensic examiners as required by subsection (a) for fiscal year 2020, including for compensation, initial training, and equipment, shall be derived from amounts authorized to be appropriated for that fiscal year for the Armed Force concerned for operation and maintenance.

SEC. 537. PILOT PROGRAMS ON DEFENSE INVESTIGATORS IN THE MILITARY JUSTICE SYSTEM.

(a) IN GENERAL.—Each Secretary of a military department shall carry out a pilot program on defense investigators within the military justice system under the jurisdiction of such Secretary in order to do the following:

(1) Determine whether the presence of defense investigators within such military justice system will—

(A) make such military justice system more effective in providing an effective defense for the accused; and

(B) make such military justice system more fair and efficient.

(2) Otherwise assess the feasibility and advisability of defense investigators as an element of such military justice system.

(b) ELEMENTS.—

(1) INTERVIEW OF VICTIM.—A defense investigator may question a victim under a pilot program only upon a request made through the Special Victims' Counsel or other counsel if the victim does not have such counsel.

(2) UNIFORMITY ACROSS MILITARY JUSTICE SYSTEMS.—The Secretary of Defense shall ensure that the personnel and activities of defense investigators under the pilot programs are, to the extent practicable, uniform across the military justice systems of the military departments.

(c) REPORT.—

(1) IN GENERAL.—Not later than three years after the date of the enactment of this Act, the Secretary of Defense shall, in consultation with the Secretaries of the military departments, submit to the

Committees on Armed Services of the Senate and the House of Representatives a report on the pilot programs under subsection (a).

(2) ELEMENTS.—The report required by paragraph (1) shall include the following:

(A) A description of each pilot program, including the personnel and activities of defense investigators under such pilot program.

(B) An assessment of the feasibility and advisability of establishing and maintaining defense investigators as an element of the military justice systems of the military departments.

(C) If the assessment under subparagraph (B) is that the establishment and maintenance of defense investigators as an element of the military justice systems of the military departments is feasible and advisable, such recommendations for legislative and administrative action as the Secretary of Defense considers appropriate to establish and maintain defense investigators as an element of the military justice systems.

(D) Any other matters the Secretary of Defense considers appropriate.

SEC. 538. PILOT PROGRAM ON PROSECUTION OF SPECIAL VICTIM OFFENSES COMMITTED BY ATTENDEES OF MILITARY SERVICE ACADEMIES.

(a) PILOT PROGRAM.—Beginning not later than January 1, 2020, the Secretary of Defense shall carry out a pilot program (referred to in this section as the ''Pilot Program'') under which the Secretary shall establish, in accordance with this section, an independent authority to—

(1) review each covered special victim offense; and

(2) determine whether such offense shall be referred to trial by an appropriate court-martial convening authority.

(b) OFFICE OF THE CHIEF PROSECUTOR.—

(1) ESTABLISHMENT.—As part of the Pilot Program, the Secretary shall establish, within the Office of the Secretary of Defense, an Office of the Chief Prosecutor.

(2) HEAD OF OFFICE.—The head of the Office shall be known as the Chief Prosecutor. The Secretary shall appoint as the Chief Prosecutor a commissioned officer in the grade of O–7 or above who—

(A) has significant experience prosecuting sexual assault trials by court-martial; and

(B) is outside the chain of command of any cadet or midshipman described in subsection (f)(2).

(3) RESPONSIBILITIES.—The Chief Prosecutor shall exercise the authorities described in subsection (c) but only with respect to covered special victim offenses.

(4) SPECIAL RULE.—Notwithstanding any other provision of law, the military service from which the Chief Prosecutor is appointed is authorized an additional billet for a general officer or a flag officer for each year in the two year period beginning with the year in which the appointment is made.

(5) TERMINATION.—The Office of the Chief Prosecutor shall terminate on the date on which the Pilot Program terminates under subsection (e).

(c) REFERRAL TO OFFICE OF THE CHIEF PROSECUTOR.—

(1) INVESTIGATION PHASE.—

(A) NOTICE AND INFORMATION.—A military criminal investigative organization that receives an allegation of a covered special victim offense shall provide to the Chief Prosecutor

and the commander of the military service academy concerned—

(i) timely notice of such allegation; and

(ii) any information and evidence obtained as the result a subsequent investigation into the allegation.

(B) TRIAL COUNSEL.—A trial counsel assigned to a case involving a covered special victim offense shall, during the investigative phase of such case, provide the Chief Prosecutor with the information necessary to enable the Chief Prosecutor to make the determination required under paragraph (3).

(2) REFERRAL TO CHIEF PROSECUTOR.—In the case of a charge relating to a covered special victim offense, in addition to referring the charge to the staff judge advocate under subsection (a) or (b) of section 834 of title 10, United States Code (article 34 of the Uniform Code of Military Justice), the convening authority of the Armed Force of which the accused is a member shall refer, as soon as reasonably practicable, the charge to the Chief Prosecutor to make the determination required by paragraph (3).

(3) PROSECUTORIAL DETERMINATION.—The Chief Prosecutor shall make a determination regarding whether a charge relating to a covered special victim offense shall be referred to trial. If the Chief Prosecutor makes a determination that the charge shall be tried by court-martial, the Chief Prosecutor also shall determine whether the charge shall be tried by a general court-martial convened under section 822 of title 10, United States Code (article 22 of the Uniform Code of Military Justice) or a special court-martial convened under section 823 of such title (article 23 of the Uniform Code of Military Justice). The determination of whether to try a charge relating to a covered special victim offense by court-martial shall include a determination of whether to try any known offenses, including any lesser included offenses.

(4) EFFECT OF DETERMINATION AND APPEALS PROCESS.—

(A) DETERMINATION TO PROCEED TO TRIAL.—Subject to subparagraph (C) determination to try a charge relating to a covered special victim offense by court-martial under paragraph (3), and the determination as to the type of court-martial, shall be binding on any

convening authority under chapter 47 of title 10, United States Code (the Uniform Code of Military Justice) for a trial by court-martial on the charge.

(B) DETERMINATION NOT TO PROCEED TO TRIAL.—Subject to subparagraph (C) determination under paragraph (3) not to proceed to trial on a charge relating to a covered special victim offense by general or special court-martial shall be binding on any convening authority under chapter 47 of title 10, United States Code (the Uniform Code of Military Justice) except that such determination shall not operate to terminate or otherwise alter the authority of the convening authority—

(i) to proceed to trial by court-martial on charges of collateral misconducted related to the special victim offense; or

(ii) to impose non-judicial punishment in connection with the conduct covered by the charge as authorized by section 815 of such title (article 15 of the Uniform Code of Military Justice).

(C) APPEAL.—In a case in which a convening authority and the staff judge advocate

advising such authority disagree with the determination of the Chief Prosecutor under paragraph (3), the convening authority and staff judge advocate may jointly appeal the determination to the General Counsel of the Department of Defense. The determination of the General Counsel with respect to such appeal shall be binding on the Chief Prosecutor and the convening authority concerned.

(5) TRIAL BY RANDOMIZED JURY.—After the Chief Prosecutor makes a determination under paragraph (3) to proceed to trial on a charge relating to a covered special victim offense, the matter shall be tried by a court-martial convened within the Armed Force of which the accused is a member in accordance with the applicable provisions of chapter 47 of title 10, United States Code (the Uniform Code of Military Justice) except that, when convening a court-martial that is a general or special court-martial involving a covered special victim offense in which the accused elects a jury trial, the convening authority shall detail members of the Armed Forces as members thereof at random unless the obtainability of members of the Armed Forces for

such court-martial prevents the convening authority from detailing such members at random.

(6) UNLAWFUL INFLUENCE OR COERCION.—The actions of the Chief Prosecutor under this subsection whether or not to try charges by court-martial shall be free of unlawful or unauthorized influence or coercion.

(d) EFFECT ON OTHER LAW.—This section shall supersede any provision of chapter 47 of title 10, United States Code (the Uniform Code of Military Justice), that is inconsistent with this section, but only to the extent of the inconsistency.

(e) TERMINATION AND TRANSITION.—

(1) TERMINATION.—The authority of the Secretary to carry out the Pilot Program shall terminate four years after the date on which the Pilot Program is initiated.

(2) TRANSITION.—The Secretary shall take such actions as are necessary to ensure that, on the date on which the Pilot Program terminates under paragraph (1), any matter referred to the Chief Prosecutor under subsection (c)(2), but with respect to which the Chief Prosecutor has not made a determination under subsection (c)(3), shall be trans-

ferred to the appropriate convening authority for consideration.

(f) DEFINITIONS.—In this section:

(1) The term ''Armed Force'' has the meaning given that term in section 101(a)(4) of title 10, United States Code.

(2) The term ''covered special victim offense'' means a special victim offense—

(A) alleged to have been committed on or after the date of the enactment of this Act by a cadet of the United States Military Academy or the United States Air Force Academy, without regard to the location at which the offense was committed; or

(B) alleged to have been committed on or after the date of the enactment of this Act by a midshipman of the United States Naval Academy, without regard to the location at which the offense was committed.

(3) The term ''Secretary'' means the Secretary of Defense.

(4) The term ''special victim offense'' means any of the following:

(A) An offense under section 917a, 920, 920b, 920c, or 930 of title 10, United States

Code (article 117a, 120, 120b, 120c, or 130 of the Uniform Code of Military Justice).

(B) A conspiracy to commit an offense specified in subparagraph (A) as punishable under section 881 of such title (article 81 of the Uniform Code of Military Justice).

(C) A solicitation to commit an offense specified in subparagraph (A) as punishable under section 882 of such title (article 82 of the Uniform Code of Military Justice).

(D) An attempt to commit an offense specified in subparagraph (A) as punishable under section 880 of such title (article 80 of the Uniform Code of Military Justice).

SEC. 539. TIMELY DISPOSITION OF NONPROSECUTABLE SEX-RELATED OFFENSES.

(a) POLICY REQUIRED.—Not later than 180 days after the date of the enactment of this Act, the Secretary of Defense shall develop and implement a policy to ensure the timely disposition of nonprosecutable sex-related offenses in accordance with subsection (b).

(b) ELEMENTS.—The policy developed under subsection (a) shall require the following:

(1) Not later than seven days after the date on which a court-martial convening authority declines

to refer a nonprosecutable sex-related offense for trial by general or special court-martial under chapter 47 of title 10, United States Code (the Uniform Code of Military Justice), the convening authority will forward the investigation to the commander of the accused.

(2) Not later than 90 days after the date on which the commander of the accused receives the investigation under paragraph (1)—

(A) the commander will determine whether or not to take other judicial, nonjudicial, or administrative action in connection with the conduct covered by the investigation, including any lesser included offenses, as authorized under section 815 of title 10, United States Code (article 15 of the Uniform Code of Military Justice); and

(B) in a case in which the commander of the accused decides to take additional action under subparagraph (A), the commander take such actions as appropriate.

(c) NONPROSECUTABLE SEX-RELATED OFFENSE DEFINED.—In this section, the term ''nonprosecutable sex-related offense'' means an alleged sex-related offense (as that term is defined in section 1044e(g) of title 10,

United States Code) that a court-martial convening authority has declined to refer for trial by a general or special court-martial under chapter 47 of title 10, United States Code (the Uniform Code of Military Justice) due to a determination that there is insufficient evidence to support prosecution of the sex-related offense.

SEC. 540. TRAINING FOR SEXUAL ASSAULT INITIAL DISPOSITION AUTHORITIES ON EXERCISE OF DISPOSITION AUTHORITY FOR SEXUAL ASSAULT AND COLLATERAL OFFENSES.

(a) IN GENERAL.—The training for sexual assault initial Disposition authorities on the exercise of disposition authority under chapter 47 of title 10, United States Code (the Uniform Code of Military Justice), with respect to cases for which disposition authority is withheld to such authorities by the April 20, 2012, memorandum of the Secretary of Defense, or any successor memorandum, shall include comprehensive training on the exercise by such authorities of such authority with respect to such cases in order to enhance the capabilities of such Authorities in the exercise of such authority and thereby promote confidence and trust in the military justice process with respect to such cases.

(b) MEMORANDUM OF SECRETARY OF DEFENSE.—The April 20, 2012, memorandum of the Secretary of De-

fense referred to in subsection (a) is the memorandum of the Secretary of Defense entitled ''Withholding Initial Disposition Authority Under the Uniform Code of Military Justice in Certain Sexual Assault Cases'' and dated April 20, 2012.

Subtitle E—Other Legal Matters

SEC. 541. STANDARD OF EVIDENCE APPLICABLE TO INVESTIGATIONS AND REVIEWS RELATED TO PROTECTED COMMUNICATIONS OF MEMBERS OF THE ARMED FORCES AND PROHIBITED RETALIATORY ACTIONS.

(a) STANDARD OF EVIDENCE.—Section 1034 of title 10, United States Code, is amended—

(1) in subsection (b)(1)(B)(ii), by striking ''as defined in subsection (i)'' and inserting ''as defined in subsection (k)'';

(2) by redesignating subsections (i) and (j) as subsections (j) and (k), respectively; and

(3) by inserting after subsection (h) the following new subsection (i):

''(i) STANDARD OF EVIDENCE.—A finding or other determination made under any of subsections (c), (d), (g), or (h) may be based on the standards of evidence specified in section 1221(e) of title 5.''.

(b) APPLICABILITY.—The amendments made by subsection (a) shall not apply to members of the Coast Guard.

(c) EFFECTIVE DATE.—The amendments made by subsection (a) shall take effect on the date that is 30 days after the date of the enactment of this Act, and shall apply with respect to allegations pending or submitted under section 1034 of title 10, United States Code, on or after that date.

SEC. 542. EXPANSION OF SPECIAL VICTIMS' COUNSEL FOR VICTIMS OF SEX-RELATED OR DOMESTIC VIOLENCE OFFENSES.

(a) IN GENERAL.—Section 1044e of title 10, United States Code, is amended—

(1) in the section heading, by striking "**sex-related**" and inserting "**sex-related or domestic violence**";

(2) by striking "alleged sex-related offense" each place it appears and inserting "alleged sex-related offense or alleged domestic violence offense";

(3) in subsection (a)—

(A) in paragraph (1), by striking "an individual described in paragraph (2)" and inserting "an individual described in paragraph (3)";

(B) by redesignating paragraph (2) as paragraph (3); and

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

''(2) The Secretary concerned shall designate paralegals (to be known as 'Special Victims' Counsel Paralegals') for the purpose of providing paralegal assistance to Special Victims' Counsel.'';

(4) in subsection (b)(2), by inserting ''or the Family Advocacy Program'' after ''Victim Witness Assistance Program'';

(5) in subsection (d)(2)—

(A) in subparagraph (A)—

(i) by striking ''Special Victims' Counsel'' and inserting ''Special Victims' Counsel and a Special Victims' Counsel Paralegal''; and

(ii) by striking ''and'' at the end;

(B) in subparagraph (B), by striking ''Special Victims' Counsel.'' and inserting ''and a Special Victims' Counsel Paralegal; and''; and

(C) by adding at the end the following new subparagraph:

''(C) ensure that a Special Victims' Counsel receives the training necessary to meet the needs of a victim of an alleged sex-related offense or an alleged domestic violence offense.'';

(6) in subsection (f)(1), by inserting ''a representative of the Family Advocacy Program,'' after ''Sexual Assault Victim Advocate,'';

(7) by amending subsection (g) to read as follows:

''(g) DEFINITIONS.—In this section:

''(1) The term 'alleged sex-related offense' means any allegation of—

''(A) a violation of section 920, 920b, 920c, or 930 of this title (article 120, 120b, 120c, or 130 of the Uniform Code of Military Justice); or

''(B) an attempt to commit an offense specified in a subparagraph (A) as punishable under section 880 of this title (article 80 of the Uniform Code of Military Justice).

''(2) The term 'alleged domestic violence offense' means any allegation of—

''(A) a violation of section 928b of this title (article 128b of the Uniform Code of Military Justice); or

''(B) an attempt to commit such an offense as punishable under section 880 of this title (article 80 of the Uniform Code of Military Justice).''; and

(8) by adding at the end the following new subsections:

''(i) MINIMUM STAFFING LEVEL.—Not later than two years after the date of enactment of this subsection, the Secretaries concerned shall ensure that the number Special Victims' Counsel serving in each military department is sufficient to ensure that the average caseload of a Special Victims' Counsel does not exceed 25 cases at any given time.

''(j) REPORT REQUIRED.—Not later than December 1, 2022, the Secretary of Defense, in consultation with the Secretaries concerned, shall submit to the Committees on Armed Services of the Senate and the House of Representatives a report that includes—

''(1) an analysis of the caseloads of Special Victims' Counsel and Special Victims' Counsel Paralegals, respectively;

''(2) an assessment of the ability of the military departments to fill additional authorized billets for the Special Victims' Counsel program to meet mission requirements; and

''(3) a description of how the training requirements for the Special Victims' Counsel program have been expanded to meet the needs of victims of alleged domestic violence offenses.''.

(b) CLERICAL AMENDMENT.—The table of sections at the beginning of chapter 53 of title 10, United States Code, is amended by striking the item relating to section 1044e and inserting the following new item:

"1044e. Special Victims' Counsel for victims of sex-related or domestic violence offenses.".

SEC. 543. NOTIFICATION OF ISSUANCE OF MILITARY PROTECTIVE ORDER TO CIVILIAN LAW ENFORCEMENT.

(a) NOTIFICATION OF ISSUANCE.—Section 1567a of title 10, United States Code, is amended—

(1) in subsection (a), by striking "and any individual involved in the order does not reside on a military installation at any time during the duration of the military protective order, the commander of the military installation shall notify" and inserting ", the commander of the unit to which the member is assigned shall, not later than seven days after the date of the issuance of the order, notify";

(2) by redesignating subsection (b) as subsection (c);

(3) by inserting after subsection (a) the following new subsection (b);

"(b) NOTIFICATION IN EVENT OF TRANSFER.—In the event that a member of the armed forces against whom

a military protective order is issued is transferred to another unit—

"(1) not later than the date of the transfer, the commander of the unit from which the member is transferred shall notify the commander of the unit to which the member is transferred of—

"(A) the issuance of the protective order; and

"(B) the individuals involved in the order; and

"(2) not later than seven days after receiving the notice under paragraph (1), the commander of the unit to which the member is transferred shall provide notice of the order to the appropriate civilian authorities in accordance with subsection (a)."; and

(4) in subsection (c), as so redesignated, by striking "commander of the military installation" and inserting "commander of the unit to which the member is assigned".

(b) ANNUAL REPORT REQUIRED.—Not later than March 1, 2020, and each year thereafter through 2024, the Secretary of Defense shall submit to the congressional defense committees a report that identifies—

(1) the number of military protective orders issued in the calendar year preceding the year in which the report is submitted; and

(2) the number of such orders that were reported to appropriate civilian authorities in accordance with section 1567a(a) of title 10, United States Code, in such preceding year.

SEC. 544. CLARIFICATIONS REGARDING SCOPE OF EMPLOYMENT AND REEMPLOYMENT RIGHTS OF MEMBERS OF THE UNIFORMED SERVICES.

(a) CLARIFICATION REGARDING DEFINITION OF RIGHTS AND BENEFITS.—Section 4303(2) of title 38, United States Code, is amended—

(1) by inserting ''(A)'' before ''The term''; and

(2) by adding at the end the following new subparagraph:

''(B) Any procedural protections or provisions set forth in this chapter shall also be considered a right or benefit subject to the protection of this chapter.''.

(b) CLARIFICATION REGARDING RELATION TO OTHER LAW AND PLANS FOR AGREEMENTS.—Section 4302 of such title is amended by adding at the end the following:

"(c)(1) Pursuant to this section and the procedural rights afforded by subchapter III of this chapter, any agreement to arbitrate a claim under this chapter is unenforceable, unless all parties consent to arbitration after a complaint on the specific claim has been filed in court or with the Merit Systems Protection Board and all parties knowingly and voluntarily consent to have that particular claim subjected to arbitration.

"(2) For purposes of this subsection, consent shall not be considered voluntary when a person is required to agree to arbitrate an action, complaint, or claim alleging a violation of this chapter as a condition of future or continued employment, advancement in employment, or receipt of any right or benefit of employment.".

SEC. 545. MILITARY ORDERS REQUIRED FOR TERMINATION OF LEASES PURSUANT TO THE SERVICEMEMBERS CIVIL RELIEF ACT.

Section 305(i) of the Servicemembers Civil Relief Act (50 U.S.C. 3955) is amended—

(1) in paragraph (1), by inserting "(including orders for separation or retirement)" after "official military orders"; and

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

"(3) PERMANENT CHANGE OF STATION.—The term 'permanent change of station' includes separation or retirement from military service.".

SEC. 546. CONSULTATION REGARDING VICTIM'S PREFERENCE IN PROSECUTION JURISDICTION.

Section 534(b) of the Carl Levin and Howard P. "Buck" McKeon National Defense Authorization Act for Fiscal Year 2015 (Public Law 113–291; 10 U.S.C. 1044e note) is amended by—

(1) redesignating paragraphs (2) through (4) as paragraphs (3) through (5), respectively; and

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

"(2) RECORD OF CONSULTATION AND VICTIM PREFERENCE.—The Secretary of Defense, acting through the Under Secretary of Defense for Personnel and Readiness, shall issue guidance to ensure that the consultation under paragraph (1) is provided to each victim of an alleged sex-related offense described in such paragraph. Such guidance shall require that the following information about each consultation is recorded and preserved in written or electronic format:

"(A) The time and date of the consultation.

"(B) The name of the individual who consulted with the victim.

"(C) The result of the consultation, including—

"(i) whether the victim expressed a preference under paragraph (1); and

"(ii) if the victim expressed a preference, whether the victim preferred that the offense be prosecuted by court-martial or in a civilian court.".

SEC. 547. EXTENSION AND EXPANSION OF DEFENSE ADVISORY COMMITTEE ON INVESTIGATION, PROSECUTION, AND DEFENSE OF SEXUAL ASSAULT IN THE ARMED FORCES.

Section 546 of the Carl Levin and Howard P. "Buck" McKeon National Defense Authorization Act for Fiscal Year 2015 (10 U.S.C. 1561 note) is amended—

(1) by amending paragraph (2) of subsection (c) to read as follows:

"(2) BASIS FOR PROVISION OF ADVICE.—For purposes of providing advice to the Secretary pursuant to this subsection, the Advisory Committee shall—

"(A) review, on an ongoing basis, cases involving allegations of sexual misconduct described in paragraph (1);

"(B) study the feasibility of incorporating restorative justice models into the Uniform Code of Military Justice; and

"(C) review Rule for Courts-Martial 1001(c) (as set forth in the Manual for Courts-Martial, 2019 edition, or any successor rule) to determine whether, and to what extent, the interpretation of that rule by military courts—

"(i) limits the ability of sexual assault victims to make statements during presentencing proceedings; and

"(ii) limits the content of such statements."; and

(2) in subsection (f)(1), by striking "five years" and inserting "ten years".

SEC. 548. DEFENSE ADVISORY COMMITTEE FOR THE PREVENTION OF SEXUAL MISCONDUCT.

(a) ESTABLISHMENT REQUIRED.—

(1) IN GENERAL.—The Secretary of Defense shall establish and maintain within the Department of Defense an advisory committee to be known as the "Defense Advisory Committee for the Prevention

of Sexual Misconduct'' (in this section referred to as the ''Advisory Committee'').

(2) DEADLINE FOR ESTABLISHMENT.—The Secretary shall establish the Advisory Committee not later than 180 days after the date of the enactment of this Act.

(b) MEMBERSHIP.—

(1) IN GENERAL.—The Advisory Committee shall consist of not more than 20 members, appointed by the Secretary from among individuals who have an expertise appropriate for the work of the Advisory Committee, including at least one individual with each expertise as follows:

(A) Expertise in the prevention of sexual assault and behaviors on the sexual assault continuum of harm.

(B) Expertise in the prevention of suicide.

(C) Expertise in trauma and trauma symptoms.

(D) Expertise in the change of culture of large organizations.

(E) Expertise in implementation science.

(2) BACKGROUND OF INDIVIDUALS.—Individuals appointed to the Advisory Committee may include individuals with expertise in sexual assault

prevention efforts of institutions of higher education, public health officials, and such other individuals as the Secretary considers appropriate.

(3) PROHIBITION ON MEMBERSHIP OF MEMBERS OF ARMED FORCES ON ACTIVE DUTY.—A member of the Armed Forces serving on active duty may not serve as a member of the Advisory Committee.

(c) DUTIES.—

(1) IN GENERAL.—The Advisory Committee shall advise the Secretary on the following:

(A) The prevention of sexual assault (including rape, forcible sodomy, other sexual assault, and other sexual misconduct (including behaviors on the sexual assault continuum of harm)) involving members of the Armed Forces.

(B) The policies, programs, and practices of each military department, each Armed Force, and each military service academy for the prevention of sexual assault as described in subparagraph (A).

(2) BASIS FOR PROVISION OF ADVICE.—For purposes of providing advice to the Secretary pursuant to this subsection, the Advisory Committee shall review, on an ongoing basis, the following:

(A) Closed cases involving allegations of sexual assault described in paragraph (1).

(B) Efforts of institutions of higher education to prevent sexual assault among students.

(C) Any other information or matters that the Advisory Committee or the Secretary considers appropriate.

(3) COORDINATION OF EFFORTS.—In addition to the reviews required by paragraph (2), for purposes of providing advice to the Secretary the Advisory Committee shall also consult and coordinate with the Defense Advisory Committee on Investigation, Prosecution, and Defense of Sexual Assault in the Armed Forces (DAC-IPAD) on matters of joint interest to the two Advisory Committees.

(d) ANNUAL REPORT.—Not later than March 30 each year, the Advisory Committee shall submit to the Secretary and the Committees on Armed Services of the Senate and the House of Representatives a report on the activities of the Advisory Committee pursuant to this section during the preceding year.

(e) SEXUAL ASSAULT CONTINUUM OF HARM.—In this section, the term ''sexual assault continuum of harm'' includes—

(1) inappropriate actions (such as sexist jokes), sexual harassment, gender discrimination, hazing, cyber bullying, or other behavior that contributes to a culture that is tolerant of, or increases risk for, sexual assault; and

(2) maltreatment or ostracism of a victim for a report of sexual misconduct.

(f) TERMINATION.—

(1) IN GENERAL.—Except as provided in paragraph (2), the Advisory Committee shall terminate on the date that is five years after the date of the establishment of the Advisory Committee pursuant to subsection (a).

(2) CONTINUATION.—The Secretary of Defense may continue the Advisory Committee after the termination date applicable under paragraph (1) if the Secretary determines that continuation of the Advisory Committee after that date is advisable and appropriate. If the Secretary determines to continue the Advisory Committee after that date, the Secretary shall notify the Committees on the Armed Services of the Senate and House of Representatives.

SEC. 549. SAFE TO REPORT POLICY APPLICABLE ACROSS THE ARMED FORCES.

(a) IN GENERAL.—The Secretary of Defense shall, in consultation with the Secretaries of the military departments, prescribe in regulations a safe to report policy described in subsection (b) that applies with respect to all members of the Armed Forces (including members of the reserve components of the Armed Forces) and cadets and midshipmen at the military service academies.

(b) SAFE TO REPORT POLICY.—The safe to report policy described in this subsection is a policy under which a member of the Armed Forces who is the alleged victim of sexual assault, but who may have committed minor collateral misconduct at or about the time of such sexual assault, or whose minor collateral misconduct is discovered only as a result of the investigation into such sexual assault, may report such sexual assault to proper authorities without fear or receipt of discipline in connection with such minor collateral misconduct absent aggravating circumstances that increase the gravity of the minor collateral misconduct or its impact on good order and discipline.

(c) MINOR COLLATERAL MISCONDUCT.—For purposes of the safe to report policy, minor collateral misconduct shall include any of the following:

(1) Improper use or possession of alcohol.

(2) Consensual intimate behavior (including adultery) or fraternization.

(3) Presence in an off-limits area.

(4) Such other misconduct as the Secretary of Defense shall specify in the regulations under subsection (a).

(d) AGGRAVATING CIRCUMSTANCES.—The regulations under subsection (a) shall specify aggravating circumstances that increase the gravity of minor collateral misconduct or its impact on good order and discipline for purposes of the safe to report policy.

(e) DEFINITIONS.—In this section:

(1) The term ''Armed Forces'' has the meaning given that term in section 101(a)(4) of title 10, United States Code, except such term does not include the Coast Guard.

(2) The term ''military service academy'' means the following:

(A) The United States Military Academy.

(B) The United States Naval Academy.

(C) The United States Air Force Academy.

SEC. 550. AVAILABILITY OF SPECIAL VICTIMS' COUNSEL AND SPECIAL VICTIM PROSECUTORS AT MILITARY INSTALLATIONS.

(a) DEADLINE FOR AVAILABILITY.—

(1) IN GENERAL.—If an individual specified in paragraph (2) is not available at a military installation for access by a member of the Armed Forces who requests access to such an individual, such an individual shall be made available at such installation for access by such member by not later than 48 hours after such request.

(2) INDIVIDUALS.—The individuals specified in this paragraph are the following:

(A) Special Victims' Counsel (SVC).

(B) Special Victim Prosecutor (SPC).

(b) REPORT ON CIVILIAN SUPPORT OF SVCS.—Not later than 180 days after the date of the enactment of this Act, each Secretary of a military department shall submit to the Committees on Armed Services of the Senate and the House of Representatives a report setting forth the assessment of such Secretary of the feasibility and advisability of establishing and maintaining at each installation under the jurisdiction of such Secretary with a Special Victims' Counsel one or more civilian positions for the purpose of—

(1) providing support to such Special Victims' Counsel; and

(2) ensuring continuity and the preservation of institutional knowledge in transitions between the

service of individuals as Special Victims' Counsel at such installation.

SEC. 550a. NOTICE TO VICTIMS OF ALLEGED SEXUAL ASSAULT OF PENDENCY OF FURTHER ADMINISTRATIVE ACTION FOLLOWING A DETERMINATION NOT TO REFER TO TRIAL BY COURT-MARTIAL.

Under regulations prescribed by the Secretary of Defense, upon a determination not to refer a case of alleged sexual assault for trial by court-martial under chapter 47 of title 10, United States Code (the Uniform Code of Military Justice), the commander making such determination shall periodically notify the victim of the status of a final determination on further action on such case, whether non-judicial punishment under section 815 of such title (article 15 of the Uniform Code of Military Justice), other administrative action, or no further action. Such notifications shall continue not less frequently than monthly until such final determination.

SEC. 550b. TRAINING FOR SPECIAL VICTIMS' COUNSEL ON CIVILIAN CRIMINAL JUSTICE MATTERS IN THE STATES OF THE MILITARY INSTALLATIONS TO WHICH ASSIGNED.

(a) TRAINING.—

(1) IN GENERAL.—Except as provided in subsection (c), upon the assignment of a Special Victims' Counsel (including a Victim Legal Counsel of the Navy) to a military installation in the United States, such Counsel shall be provided appropriate training on the law and policies of the State or States in which such military installation is located with respect to the criminal justice matters specified in paragraph (2). The purpose of the training is to assist such Counsel in providing victims of alleged sex-related offenses with information necessary to make an informed decision regarding preference as to the jurisdiction (whether court-martial or State court) in which such offenses will be prosecuted.

(2) CRIMINAL JUSTICE MATTERS.—The criminal justice matters specified in this paragraph, with respect to a State, are the following:

(A) Victim rights.

(B) Prosecution of criminal offenses.

(C) Sentencing for conviction of criminal offenses.

(b) ALLEGED SEX-RELATED OFFENSE DEFINED.—In this section, the term ''alleged sex-related offense'' means any allegation of—

(1) a violation of section 920, 920b, 920c, or 930 of title 10, United States Code (article 120, 120b, 120c, or 130 of the Uniform Code of Military Justice); or

(2) an attempt to commit an offense specified in a paragraph (1) as punishable under section 880 of title 10, United States Code (article 80 of the Uniform Code of Military Justice).

(c) EXCEPTION.—The requirements of this section do not apply to a Special Victims' Counsel of the Coast Guard.

Subtitle F—Member Education

SEC. 551. AUTHORITY FOR DETAIL OF CERTAIN ENLISTED MEMBERS OF THE ARMED FORCES AS STUDENTS AT LAW SCHOOLS.

(a) IN GENERAL.—Chapter 101 of title 10, United States Code, is amended—

(1) by redesignating sections 2004a and 2004b as sections 2004b and 2004c, respectively;

(2) by inserting after section 2004 the following new section:

"§ 2004a. Detail as students at law schools: certain enlisted members

''(a) IN GENERAL.—The Secretary of each military department may, under regulations prescribed by the Sec-

1 retary of Defense, detail enlisted members of the armed
2 forces as students at accredited law schools, located in the
3 United States, for a period of training leading to the de-
4 gree of bachelor of laws or juris doctor. No more than
5 twenty-five officers from each military department may
6 commence such training in any single fiscal year.

7 ''(b) ELIGIBILITY FOR DETAIL.—To be eligible for
8 detail under subsection (a), a member must be a citizen
9 of the United States and must—

10 ''(1) as of the time training is to begin—

11 ''(A) have served on active duty for a pe-
12 riod of not less than four years nor more than
13 eight years;

14 ''(B) be in pay grade E–5 or E–6; and

15 ''(C) meet all requirements for acceptance
16 of a commission as a commissioned officer in
17 the armed forces; and

18 ''(2) sign an agreement that, unless sooner sep-
19 arated, the member will—

20 ''(A) complete the educational course of
21 legal training;

22 ''(B) upon completion of the educational
23 course of legal training—

24 ''(i) accept a commission as a commis-
25 sioned officer in the armed forces; and

"(ii) accept transfer or detail as a judge advocate or law specialist within the department concerned; and

"(C) agree to serve on active duty following completion or other termination of the educational course of legal training for a period of two years for each year or part thereof of such training.

"(c) SELECTION.—Members detailed for legal training under subsection (a) shall be selected on a competitive basis by the Secretary of the military department concerned, under the regulations required by subsection (a).

"(d) SERVICE AND SERVICE OBLIGATIONS.—(1) Except as provided in paragraph (2), any service obligation incurred by a member under an agreement entered into under subsection (b) shall be in addition to any service obligation incurred by the member under any other provision of law or agreement.

"(2)(A) A member who does not successfully complete a course of legal training to which detailed pursuant to this section shall cease such detail and return to the armed force concerned as an enlisted member.

"(B) Any time of a member described by subparagraph (A) in a course of legal training described in that subparagraph shall not count toward satisfaction of any

period of service required under the current contract or agreement of the member for enlistment in the armed forces.

''(e) LIMITATION ON NUMBER DETAILABLE.—The aggregate number of enlisted members detailed under this section and commissioned officers detailed under section 2004 of this title in any fiscal year by a Secretary of a military department may not exceed 25.

''(f) OTHER ADMINISTRATIVE MATTERS.—Subsections (d) and (f) of section 2004 of this title shall apply to the detail of members under this section, except that any reference in such section to an 'officer' shall be deemed to be a reference to an 'enlisted member' for such purposes.''.

SEC. 552. EDUCATION OF MEMBERS OF THE ARMED FORCES ON CAREER READINESS AND PROFESSIONAL DEVELOPMENT.

(a) PROGRAMS OF EDUCATION REQUIRED.—

(1) IN GENERAL.—Chapter 101 of title 10, United States Code, is amended by inserting after section 2015 the following new section:

''§ 2015a. Education of members on career readiness and professional development

''(a) PROGRAM OF EDUCATION REQUIRED.—The Secretary of Defense shall carry out a program to provide

education on career readiness and professional development to members of the armed forces.

"(b) ELEMENTS.—The program under this section shall provide members with the following:

"(1) Information on the transition plan as described in section 1142(b)(10) of this title.

"(2) Information on opportunities available to members during military service for professional development and preparation for a career after military service, including—

"(A) programs of education, certification, training, and employment assistance (including programs under sections 1143(e), 2007, and 2015 of this title); and

"(B) programs and resources available to members in communities in the vicinity of military installations.

"(3) Instruction on the use of online and other electronic mechanisms in order to access the education, training, and assistance and resources described in paragraph (2).

"(4) Such other information, instruction, and matters as the Secretary shall specify for purposes of this section.

1 ''(c) TIMING OF PROVISION OF INFORMATION.—Sub-
2 ject to subsection (d), information, instruction, and other
3 matters under the program under this section shall be pro-
4 vided to members at the times as follows:
5 ''(1) Upon arrival at first duty station.
6 ''(2) Upon arrival at any subsequent duty sta-
7 tion.
8 ''(3) Upon deployment.
9 ''(4) Upon promotion.
10 ''(5) Upon reenlistment.
11 ''(6) At any other point in a military career
12 specified by the Secretary for purposes of this sec-
13 tion
14 ''(d) SINGLE PROVISION OF INFORMATION IN A YEAR
15 WITH MULTIPLE EVENTS.—A member who has received
16 information and instruction under the program under this
17 section in connection with an event specified in subsection
18 (c) in a year may elect not to undergo additional receipt
19 of information and instruction under the program in con-
20 nection with another such event in the year, unless such
21 other event is arrival at a new duty station.''.
22 (2) CLERICAL AMENDMENT.—The table of sec-
23 tions at the beginning of chapter 101 of such title
24 is amended by inserting after the item relating to
25 section 2015 the following new item:

"2015a. Education of members on career readiness and professional development.".

(b) REPORT ON IMPLEMENTATION.—

(1) IN GENERAL.—Not later than one year after the date of the enactment of this Act, the Secretary of Defense shall submit to the appropriate committees of Congress a report on the program of education required by section 2015a of title 10, United States Code (as added by subsection (a)), including the following:

(A) A comprehensive description of the actions taken to implement the program of education.

(B) A comprehensive description of the program of education.

(2) APPROPRIATE COMMITTEES OF CONGRESS DEFINED.—In this subsection, the term "appropriate committees of Congress" means—

(A) the Committee on Armed Services and the Committee on Veterans' Affairs of the Senate; and

(B) the Committee on Armed Services and the Committee on Veterans' Affairs of the House of Representatives.

SEC. 553. DEFENSE LANGUAGE INSTITUTE FOREIGN LANGUAGE CENTER.

(a) AUTHORITY TO AWARD BACHELOR'S DEGREES.—Section 2168 of title 10, United States Code, is amended—

(1) in the section heading, by striking "**Associate**" and inserting "**Associate or Bachelor**"; and

(2) by amending subsection (a) to read as follows:

"(a) Subject to subsection (b), the Commandant of the Defense Language Institute may confer—

"(1) an Associate of Arts degree in a foreign language upon any graduate of the Foreign Language Center of the Institute who fulfills the requirements for that degree; or

"(2) a Bachelor of Arts degree in a foreign language upon any graduate of the Foreign Language Center of the Institute who fulfills the requirements for that degree.".

(b) CLERICAL AMENDMENT.—The table of sections at the beginning of chapter 108 of title 10, United States Code, is amended by striking the item relating to section 2168 and inserting the following new item:

"2168. Defense Language Institute Foreign Language Center: degree of Associate or Bachelor of Arts in foreign language.".

SEC. 554. EXPANSION OF DEPARTMENT OF DEFENSE STARBASE PROGRAM.

(a) IN GENERAL.—Section 2193b of title 10, United States Code, is amended—

(1) in the section heading, by striking "**science, mathematics, and technology**" and inserting "**science, technology, engineering, art and design, and mathematics**";

(2) in subsection (a), by striking "science, mathematics, and technology" and inserting "science, technology, engineering, art and design, and mathematics"; and

(3) in subsection (b), by striking "mathematics, science, and technology" and inserting "science, technology, engineering, art and design, and mathematics";

(b) CLERICAL AMENDMENT.—The table of sections at the beginning of chapter 111 of title 10, United States Code, is amended by striking the item relating to section 2193b and inserting the following new item:

"2193b. Improvement of education in technical fields: program for support of elementary and secondary education in science, technology, engineering, art and design, and mathematics.".

SEC. 555. DEGREE GRANTING AUTHORITY FOR UNITED STATES ARMY ARMAMENT GRADUATE SCHOOL.

(a) IN GENERAL.—Chapter 751 of title 10, United States Code, is amended by adding at the end the following new section:

"§ 7422. Degree granting authority for United States Army Armament Graduate School

''(a) AUTHORITY.—Under regulations prescribed by the Secretary of the Army, the Chancellor of the United States Army Armament Graduate School may, upon the recommendation of the faculty and provost of the college, confer appropriate degrees upon graduates who meet the degree requirements.

''(b) LIMITATION.—A degree may not be conferred under this section unless—

''(1) the Secretary of Education has recommended approval of the degree in accordance with the Federal Policy Governing Granting of Academic Degrees by Federal Agencies; and

''(2) the United States Army Armament Graduate School is accredited by the appropriate civilian academic accrediting agency or organization to award the degree, as determined by the Secretary of Education.

"(c) CONGRESSIONAL NOTIFICATION REQUIREMENTS.—(1) When seeking to establish degree granting authority under this section, the Secretary of Defense shall submit to the Committees on Armed Services of the Senate and the House of Representatives—

"(A) a copy of the self-assessment questionnaire required by the Federal Policy Governing Granting of Academic Degrees by Federal Agencies, at the time the assessment is submitted to the Department of Education's National Advisory Committee on Institutional Quality and Integrity; and

"(B) the subsequent recommendations and rationale of the Secretary of Education regarding the establishment of the degree granting authority.

"(2) Upon any modification or redesignation of existing degree granting authority, the Secretary of Defense shall submit to the Committees on Armed Services of the Senate and House of Representatives a report containing the rationale for the proposed modification or redesignation and any subsequent recommendation of the Secretary of Education on the proposed modification or redesignation.

"(3) The Secretary of Defense shall submit to the Committees on Armed Services of the Senate and House of Representatives a report containing an explanation of

any action by the appropriate academic accrediting agency or organization not to accredit the United States Army Armament Graduate School to award any new or existing degree.''.

(b) CLERICAL AMENDMENT.—The table of sections at the beginning of such chapter is amended by adding at the end the following new item:

''7422. Degree granting authority for United States Army Armament Graduate School.''.

SEC. 556. CONGRESSIONAL NOMINATIONS FOR SENIOR RESERVE OFFICERS' TRAINING CORPS SCHOLARSHIPS.

Section 7442 of title 10, United States Code, is amended by adding at the end the following new subsection:

''(k) Any candidate not nominated under paragraphs (3) through (10) of subsection (a) may be considered by the Secretary of the Army in order of merit for appointment as a Senior Reserve Officers' Training Corps cadet under section 2107 of this title.''.

SEC. 557. CONSIDERATION OF APPLICATION FOR TRANSFER FOR A STUDENT OF A MILITARY SERVICE ACADEMY WHO IS THE VICTIM OF A SEXUAL ASSAULT OR RELATED OFFENSE.

(a) MILITARY ACADEMY.—Section 7461 of title 10, United States Code, is amended by adding at the end the following new subsection:

"(e) CONSIDERATION OF APPLICATION FOR TRANSFER FOR A CADET WHO IS THE VICTIM OF A SEXUAL ASSAULT OR RELATED OFFENSE.—(1) The Secretary of the Army shall provide for timely determination and action on an application for consideration of a transfer to another military service academy submitted by a cadet who was a victim of a sexual assault or other offense covered by section 920, 920a, or 920c of this title (article 120, 120a, or 120c of the Uniform Code of Military Justice) so as to reduce the possibility of retaliation against the cadet for reporting the sexual assault or other offense.

"(2) The Secretary of the Army shall prescribe regulations to carry out this subsection, within guidelines provided by the Secretary of Defense that direct the Superintendent of the Military Academy, in coordination with the Superintendent of the military service academy to which the cadet wishes to transfer—

"(A) to approve or deny an application under this subsection not later than 72 hours after the submission of the application; and

"(B) to approve such application unless there are exceptional circumstances that require denial of the application.

"(3) If the Superintendent of the Military Academy or the Superintendent of the military service academy to which the cadet wishes to transfer denies an application under this subsection, the cadet may request review of the denial by the Secretary concerned, who shall grant or deny review not later than 72 hours after submission of the request for review.

"(4) The Secretary concerned shall ensure that all records of any request, determination, or action under this subsection remain confidential.

"(5) A cadet who transfers under this subsection may retain the cadet's appointment to the Military Academy or may be appointed to the military service academy to which the cadet transfers without regard to the limitations and requirements set forth in sections 7442, 8454, and 9442 of this title.".

(b) NAVAL ACADEMY.—Section 8480 of title 10, United States Code, is amended by adding at the end the following new subsection:

"(e) CONSIDERATION OF APPLICATION FOR TRANSFER FOR A MIDSHIPMAN WHO IS THE VICTIM OF A SEXUAL ASSAULT OR RELATED OFFENSE.—(1) The Secretary of the Navy shall provide for timely determination and action on an application for consideration of a transfer to another military service academy submitted by a midshipman who was a victim of a sexual assault or other offense covered by section 920, 920a, or 920c of this title (article 120, 120a, or 120c of the Uniform Code of Military Justice) so as to reduce the possibility of retaliation against the midshipman for reporting the sexual assault or other offense.

"(2) The Secretary of the Navy shall prescribe regulations to carry out this subsection, within guidelines provided by the Secretary of Defense that direct the Superintendent of the Naval Academy, in coordination with the Superintendent of the military service academy to which the midshipman wishes to transfer—

"(A) to approve or deny an application under this subsection not later than 72 hours after the submission of the application; and

"(B) to approve such application unless there are exceptional circumstances that require denial of the application.

"(3) If the Superintendent of the Naval Academy or the Superintendent of the military service academy to which the midshipman wishes to transfer denies an application under this subsection, the midshipman may request review of the denial by the Secretary concerned, who shall grant or deny review not later than 72 hours after submission of the request for review.

"(4) The Secretary concerned shall ensure that all records of any request, determination, or action under this subsection remain confidential.

"(5) A midshipman who transfers under this subsection may retain the midshipman's appointment to the Naval Academy or may be appointed to the military service academy to which the midshipman transfers without regard to the limitations and requirements set forth in sections 7442, 8454, and 9442 of this title.".

(c) AIR FORCE ACADEMY.—Section 9461 of title 10, United States Code, is amended by adding at the end the following new subsection:

"(e) CONSIDERATION OF APPLICATION FOR TRANSFER FOR A CADET WHO IS THE VICTIM OF A SEXUAL ASSAULT OR RELATED OFFENSE.—(1) The Secretary of the Air Force shall provide for timely determination and action on an application for consideration of a transfer to another military service academy submitted by a cadet

who was a victim of a sexual assault or other offense covered by section 920, 920a, or 920c of this title (article 120, 120a, or 120c of the Uniform Code of Military Justice) so as to reduce the possibility of retaliation against the cadet for reporting the sexual assault or other offense.

''(2) The Secretary of the Air Force shall prescribe regulations to carry out this subsection, within guidelines provided by the Secretary of Defense that direct the Superintendent of the Air Force Academy, in coordination with the Superintendent of the military service academy to which the cadet wishes to transfer—

''(A) to approve or deny an application under this subsection not later than 72 hours after the submission of the application; and

''(B) to approve such application unless there are exceptional circumstances that require denial of the application.

''(3) If the Superintendent of the Air Force Academy or the Superintendent of the military service academy to which the cadet wishes to transfer denies an application under this subsection, the cadet may request review of the denial by the Secretary concerned, who shall grant or deny review not later than 72 hours after submission of the request for review.

"(4) The Secretary concerned shall ensure that all records of any request, determination, or action under this subsection remain confidential.

"(5) A cadet who transfers under this subsection may retain the cadet's appointment to the Air Force Academy or may be appointed to the military service academy to which the cadet transfers without regard to the limitations and requirements set forth in sections 7442, 8454, and 9442 of this title.".

SEC. 558. REDESIGNATION OF THE COMMANDANT OF THE UNITED STATES AIR FORCE INSTITUTE OF TECHNOLOGY AS THE DIRECTOR AND CHANCELLOR OF SUCH INSTITUTE.

(a) REDESIGNATION.—Section 9414b(a) of title 10, United States Code, is amended—

(1) in the subsection heading, by striking "COMMANDANT" and inserting "DIRECTOR AND CHANCELLOR";

(2) by striking "Commandant" each place it appears and inserting "Director and Chancellor"; and

(3) in the heading of paragraph (3), by striking "Commandant" and inserting "Director and Chancellor".

(b) CONFORMING AMENDMENT.—Section 9414 of such title is amended by striking ''Commandant'' both places it appears and inserting ''Director and Chancellor''.

(c) REFERENCES.—Any reference in any law, regulation, map, document, paper, or other record of the United States to the Commandant of the United States Air Force Institute of Technology shall be deemed to be a reference to the Director and Chancellor of the United States Air Force Institute of Technology.

SEC. 559. ELIGIBILITY OF ADDITIONAL ENLISTED MEMBERS FOR ASSOCIATE DEGREE PROGRAMS OF THE COMMUNITY COLLEGE OF THE AIR FORCE.

Section 9415(b) of title 10, United States Code, is amended by adding at the end the following new paragraph:

''(3) Enlisted members of the armed forces other than the Air Force who are participating in Community College of the Air Force affiliated joint-service training and education courses.''.

SEC. 560. SAFE-TO-REPORT POLICY APPLICABLE TO MILITARY SERVICE ACADEMIES.

(a) IN GENERAL.—The Secretary of Defense, in consultation with the Secretaries of the military departments, shall prescribe in regulations a safe-to-report policy de-

scribed in subsection (b) that applies with respect to cadets and midshipmen at the military service academies.

(b) SAFE-TO-REPORT POLICY.—The safe-to-report policy described in this subsection is a policy under which a cadet or midshipman at a military service academy who is the alleged victim of sexual assault, but who may have committed minor collateral misconduct at or about the time of such sexual assault, or whose minor collateral misconduct is discovered only as a result of the investigation into such sexual assault, may report such sexual assault to proper authorities without fear or receipt of discipline in connection with such minor collateral misconduct.

(c) MINOR COLLATERAL MISCONDUCT.—For purposes of the safe-to-report policy, minor collateral misconduct shall include any of the following:

(1) Improper use or possession of alcohol.

(2) Consensual intimate behavior or fraternization with another cadet or midshipman.

(3) Presence in an off-limits area.

(4) Such other misconduct as the Secretary of Defense shall specify in the regulations under subsection (a).

(d) MILITARY SERVICE ACADEMY DEFINED.—In this section, the term ''military service academy'' means the following:

(1) The United States Military Academy.

(2) The United States Naval Academy.

(3) The United States Air Force Academy.

(4) The United States Coast Guard Academy.

SEC. 560a. RECOUPMENT OF FUNDS FROM CADETS AND MIDSHIPMEN SEPARATED FOR CRIMINAL MISCONDUCT.

Not later than September 30, 2020, each Secretary of a military department shall prescribe regulations by which the Superintendent of a military service academy under the jurisdiction of the Secretary shall, pursuant to section 303a(e) of title 37, United States Code, recoup the cost of advanced education received by a cadet or midshipman who is separated from that military service academy—

(1) at any time before the cadet or midshipman graduates from the military service academy; and

(2) for criminal misconduct by the cadet or midshipman.

Subtitle G—Member Training and Transition

SEC. 561. PROHIBITION ON GENDER-SEGREGATED TRAINING AT MARINE CORPS RECRUIT DEPOTS.

(a) PARRIS ISLAND.—

(1) PROHIBITION.—Subject to paragraph (2), training at the Marine Corps Recruit Depot, Parris Island, South Carolina, may not be segregated based on gender.

(2) DEADLINE.—The Commandant of the Marine Corps shall carry out this subsection not later than five years after the date of the enactment of this Act.

(b) SAN DIEGO.—

(1) PROHIBITION.—Subject to paragraph (2), training at the Marine Corps Recruit Depot, San Diego, California, may not be segregated based on gender.

(2) DEADLINE.—The Commandant of the Marine Corps shall carry out this subsection not later than eight years after the date of the enactment of this Act.

SEC. 562. MEDICAL PERSONNEL AT MARINE CORPS RECRUIT DEPOTS.

Not later than September 30, 2020, the Secretary of the Navy, in coordination with the Navy Medical Department, shall—

(1) assign personnel to the Marine Recruit Training Regiment at each Marine Corps Recruit Depot who—

(A) possess sufficient medical training and equipment to evaluate sick recruits; and

(B) is capable of determining whether a recruit requires emergent care; and

(2) ensure such personnel is available after business hours in order to advise personnel regarding the course of action for managing a sick recruit.

SEC. 563. ASSESSMENT OF DEATHS OF RECRUITS UNDER THE JURISDICTION OF THE SECRETARY OF THE NAVY.

(a) ASSESSMENT.—The Inspector General of the Department of Defense shall conduct an assessment of the deaths of recruits at facilities under the jurisdiction of the Secretary of the Navy, and the effectiveness of the current medical protocols on the training bases.

(b) REPORT.—Not later than September 30, 2020, the Inspector General shall submit to the Committees on Armed Services of the Senate and the House of Representative a report containing the results of the assessment conducted under subsection (a). The report shall include the following:

(1) The number of recruits who died during basic training in the five years preceding the date of the report.

(2) The causes of deaths described in paragraph (1).

(3) The types of medical treatment that was provided to recruits described in paragraph (1).

(4) Whether any of the deaths identified under paragraph (1) were found to be a result of medical negligence.

(5) A description of medical capabilities and personnel available to the recruits at each facility.

(6) A description of medical resources accessible to the recruits at the company level at each facility.

(7) A description of 24-hour medical resources available to recruits at each facility.

(8) An evaluation of the guidelines and resources in place to monitor sick recruits.

(9) An evaluation of how supervisors evaluate and determine whether a sick recruit should continue training or further seek medical assistance.

(10) An evaluation of how the Secretary of the Navy can increase visibility of the comprehensive medical status of a sick recruit to instructors and supervisors in order to provide better situational awareness of the such medical status.

(11) An evaluation of how to improve and medical care for recruits.

SEC. 564. INCLUSION OF SPECIFIC EMAIL ADDRESS BLOCK ON CERTIFICATE OF RELEASE OR DISCHARGE FROM ACTIVE DUTY (DD FORM 214).

(a) MODIFICATION REQUIRED.—The Secretary of Defense shall modify the Certificate of Release or Discharge from Active Duty (DD Form 214) to include a specific block explicitly identified as the location in which a member of the Armed Forces may provide one or more email addresses by which the member may be contacted after discharge or release from active duty in the Armed Forces.

(b) DEADLINE FOR MODIFICATION.—The Secretary of Defense shall release a revised Certificate of Release or Discharge from Active Duty (DD Form 214), modified as required by subsection (a), not later than one year after the date of the enactment of this Act.

SEC. 565. MACHINE READABILITY AND ELECTRONIC TRANSFERABILITY OF CERTIFICATE OF RELEASE OR DISCHARGE FROM ACTIVE DUTY (DD FORM 214).

(a) MODIFICATION REQUIRED.—The Secretary of Defense shall modify the Certificate of Release or Discharge from Active Duty (DD Form 214) to be machine readable and electronically transferable.

(b) DEADLINE FOR MODIFICATION.—The Secretary of Defense shall release a revised Certificate of Release

or Discharge from Active Duty (DD Form 214), modified pursuant to subsection (a), not later than four years after the date of the enactment of this Act.

(c) REPORT.—Not later than 180 days after the date of the enactment of this Act, the Secretary of Defense shall submit a report to Congress regarding the following:

(1) What systems of the Department of Defense require an individual to manually enter information from DD Form 214.

(2) What activities of the Department of Defense require a veteran or former member of the Armed Forces to provide a physical copy of DD Form 214.

(3) The order of priority for modernizing items identified under paragraphs (1) and (2) as determined by the Secretary.

(4) The estimated cost, as determined by the Secretary, to automate items identified under paragraphs (1) and (2).

SEC. 566. RECORDS OF SERVICE FOR RESERVES.

(a) ESTABLISHMENT.—Not later than September 30, 2020, the Secretary of Defense shall establish and implement a standard record of service for members of the reserve components of the Armed Forces, similar to DD

Form 214, that summarizes the record of service of each such member, including dates of active duty service.

(b) COORDINATION.—In carrying out this section, the Secretary of Defense shall coordinate with the Secretary of Veterans Affairs to ensure that the record established under this section is acceptable as proof of service for former members of the reserve components of the Armed Forces who are eligible for benefits under laws administered by the Secretary of Veterans Affairs to receive such benefits.

Subtitle H—Military Family Readiness and Dependents' Education

SEC. 571. AUTHORIZING MEMBERS TO TAKE LEAVE FOR A BIRTH OR ADOPTION IN MORE THAN ONE INCREMENT.

Section 701(i) of title 10, United States Code, is amended by striking paragraph (5).

SEC. 572. DEFERRED DEPLOYMENT FOR MEMBERS WHO GIVE BIRTH.

Section 701 of title 10, United States Code, is amended by adding at the end the following new subsection:

''(l) A member of the armed forces who gives birth while on active duty may not be deployed during the period of 12 months beginning on the date of such birth except—

"(1) at the election of such member; and

"(2) with the approval of a health care provider employed at a military medical treatment facility.".

SEC. 573. AUTHORITY OF THE SECRETARY CONCERNED TO TRANSPORT REMAINS OF A COVERED DECEDENT TO NO MORE THAN TWO PLACES SELECTED BY THE PERSON DESIGNATED TO DIRECT DISPOSITION OF THE REMAINS.

(a) AUTHORITY.—Section 1482(a)(8) of title 10, United States Code, is amended to read as follows:

"(8)(A) Transportation of the remains, and travel and transportation allowances as specified in regulations prescribed under section 464 of title 37 for an escort of one person, to the place, subject to subparagraph (B), selected by the person designated to direct disposition of the remains or, if such a selection is not made, to a national or other cemetery which is selected by the Secretary and in which burial of the decedent is authorized.

"(B) The person designated to direct disposition of the remains may select two places under subparagraph (A) if the second place is a national cemetery. If that person selects two places, the Secretary concerned may pay for transportation to the

second place only by means of reimbursement under to subsection (b).

''(C) When transportation of the remains includes transportation by aircraft under section 562 of the John Warner National Defense Authorization Act for Fiscal Year 2007 (Public Law 109–364; 10 U.S.C. 1482 note), the Secretary concerned shall provide, to the maximum extent practicable, for delivery of the remains by air to the commercial, general aviation, or military airport nearest to the place selected by the designee.''.

(b) MILITARY ESCORT AND HONOR GUARD ONLY TO FIRST LOCATION.—Section 562(b) of the John Warner National Defense Authorization Act for Fiscal Year 2007 (Public Law 109–364; 10 U.S.C. 1482 note) is amended by adding at the end the following: ''If the person designated to direct disposition of the remains selects two places under such section, the term means only the first of those two places.''.

SEC. 574. CLARIFICATION REGARDING ELIGIBILITY TO TRANSFER ENTITLEMENT UNDER POST-9/11 EDUCATIONAL ASSISTANCE PROGRAM.

Section 3319(j) of title 38, United States Code, is amended by adding at the end the following new paragraph:

"(3) The Secretary of Defense may not prescribe any regulation that would provide for a limitation on eligibility to transfer unused education benefits to family members based on a maximum number of years of service in the Armed Forces.".

SEC. 575. ABSENTEE BALLOT TRACKING PROGRAM.

(a) ESTABLISHMENT AND OPERATION OF PROGRAM.—Section 102(h) of the Uniformed and Overseas Citizens Absentee Voting Act (52 U.S.C. 20302(h)) is amended to read as follows:

"(h) ABSENTEE BALLOT TRACKING PROGRAM.—

"(1) REQUIRING ESTABLISHMENT AND OPERATION OF PROGRAM.—The chief State election official, in coordination with local election jurisdictions, shall establish and operate an absentee ballot tracking program described in paragraph (2) for the use of absent uniformed services voters and overseas voters.

"(2) PROGRAM DESCRIBED.—

"(A) INFORMATION ON TRANSMISSION AND RECEIPT OF ABSENTEE BALLOTS.—An absentee ballot tracking program described in this paragraph is a program under which—

"(i) the State or local election official responsible for the transmission of absen-

tee ballots in an election for Federal office operates procedures to track and confirm the transmission of such ballots and to make information on the transmission of such a ballot available by means of online access using the internet site of the official's office; and

''(ii) the State or local election official responsible for the receipt of absentee ballots in an election for Federal office operates procedures to track and confirm the receipt of such ballots and (subject to subparagraph (B)) to make information on the receipt of such a ballot available by means of online access using the internet site of the official's office.

''(B) SPECIFIC INFORMATION ON RECEIPT OF VOTED ABSENTEE BALLOTS.—The information required to be made available under clause (ii) of subparagraph (A) with respect to the receipt of a voted absentee ballot in an election for Federal office shall include information regarding whether the vote cast on the ballot was counted, and, in the case of a vote which was not counted, the reasons therefor. The appro-

priate State or local election official shall make the information described in the previous sentence available during the 30-day period that begins on the date on which the results of the election are certified, or during such earlier 30-day period as the official may provide.

''(3) USE OF TOLL-FREE TELEPHONE NUMBER BY OFFICIALS WITHOUT INTERNET SITE.—A program established and operated by a State or local election official whose office does not have an internet site may meet the requirements of paragraph (2) if the official has established and operates a toll-free telephone number that may be used to obtain the information on the transmission or receipt of the absentee ballot which is required under such paragraph.''.

(b) EFFECTIVE DATE.—The amendment made by subsection (a) shall apply with respect to elections held during 2020 or any succeeding year.

SEC. 576. ANNUAL STATE REPORT CARD.

Section 1111(h)(1)(C)(ii) of the Elementary and Secondary Education Act of 1965 (20 U.S.C. 6311(h)(1)(C)(ii)) is amended by striking ''on active duty (as defined in section 101(d)(5) of such title)''.

SEC. 577. TRANSPORTATION OF REMAINS OF CASUALTIES; TRAVEL EXPENSES FOR NEXT OF KIN.

(a) TRANSPORTATION FOR REMAINS OF A MEMBER WHO DIES NOT IN A THEATER OF COMBAT OPERATIONS.—Section 562 of the John Warner National Defense Authorization Act for Fiscal Year 2007 (Public Law 109–364; 10 U.S.C. 1482 note) is amended—

(1) in the heading, by striking ''**DYING IN A THEATER OF COMBAT OPERATIONS**''; and

(2) in subsection (a), by striking ''in a combat theater of operations'' and inserting ''outside of the United States''.

(b) TRANSPORTATION FOR FAMILY.—The Secretary of Defense shall revise Department of Defense Instruction 1300.18 to extend travel privileges via Invitational Travel Authorization to family members of members of the Armed Forces who die outside of the United States and whose remains are returned to the United States through the mortuary facility at Dover Air Force Base, Delaware.

SEC. 578. MEETINGS OF OFFICIALS OF THE DEPARTMENT OF DEFENSE WITH SURVIVORS OF DECEASED MEMBERS OF THE ARMED FORCES.

(a) CHIEFS OF THE ARMED FORCES.—The Secretary of Defense shall direct the chiefs of the Armed Forces to meet periodically with survivors of deceased members of the Armed Forces to receive feedback from those survivors

regarding issues affecting such survivors. The Chief of the National Guard Bureau shall meet with survivors of deceased members of the Air National Guard and the Army National Guard.

(b) UNDER SECRETARY OF DEFENSE FOR PERSONNEL AND READINESS.—The Under Secretary of Defense for Personnel and Readiness shall meet periodically with survivors of deceased members of the Armed Forces to discuss policies of the Department of Defense regarding military casualties and Gold Star families.

(c) BRIEFING.—Not later than April 1, 2020, the Under Secretary of Defense for Personnel and Readiness shall brief the Committee on Armed Services of the House of Representatives regarding policies established and the results of the meetings under subsection (b).

SEC. 579. DIRECT EMPLOYMENT PILOT PROGRAM FOR MEMBERS OF THE NATIONAL GUARD AND RESERVE, VETERANS, THEIR SPOUSES AND DEPENDENTS, AND MEMBERS OF GOLD STAR FAMILIES.

(a) IN GENERAL.—The Secretary of Defense may carry out a pilot program to enhance the efforts of the Department of Defense to provide job placement assistance and related employment services directly to the following:

(1) Members of the National Guard and Reserves in reserve active status.

(2) Veterans of the Armed Forces.

(3) Spouses and other dependents of individuals referred to in paragraphs (1) and (2).

(4) Members of Gold Star Families.

(b) ADMINISTRATION.—The pilot program shall be offered to, and administered by, the adjutants general appointed under section 314 of title 32, United States Code, or other officials in the States concerned designated by the Secretary for purposes of the pilot program.

(c) COST-SHARING REQUIREMENT.—As a condition on the provision of funds under this section to a State to support the operation of the pilot program in the State, the State must agree to contribute an amount, derived from non-Federal sources, equal to at least 50 percent of the funds provided by the Secretary to the State under this section.

(d) DIRECT EMPLOYMENT PROGRAM MODEL.—The pilot program should follow a job placement program model that focuses on working one-on-one with individuals specified in subsection (a) to cost-effectively provide job placement services, including services such as identifying unemployed and underemployed individuals, job matching services, resume editing, interview preparation, and post-

employment follow up. Development of the pilot program should be informed by existing State direct employment programs for members of the reserve components and veterans.

(e) TRAINING.—The pilot program should draw on the resources provided to transitioning members of the Armed Forces with civilian training opportunities through the SkillBridge trainsition training program administered by the Department of Defense.

(f) EVALUATION.—The Secretary shall develop outcome measurements to evaluate the success of the pilot program.

(g) REPORTING REQUIREMENTS.—

(1) REPORT REQUIRED.—Not later than March 1, 2021, the Secretary of Defense shall submit to the congressional defense committees a report describing the results of the pilot program. The Secretary shall prepare the report in coordination with the Secretary of Veterans Affairs and the Chief of the National Guard Bureau.

(2) ELEMENTS OF REPORT.—A report under paragraph (1) shall include the following:

(A) A description and assessment of the effectiveness and achievements of the pilot program, including the number of members of the

reserve components and veterans of the Armed Forces hired and the cost-per-placement of participating members and veterans.

(B) An assessment of the impact of the pilot program and increased reserve component employment levels on the readiness of members of the reserve components and on the retention of members of the Armed Forces.

(C) A comparison of the pilot program to other programs conducted by the Department of Defense and Department of Veterans Affairs to provide unemployment and underemployment support to members of the reserve components and veterans of the Armed Forces, including the best practices developed through and used in such programs.

(D) Any other matters considered appropriate by the Secretary of Defense.

(h) DURATION OF AUTHORITY.—The authority to carry out the pilot program expires on September 30, 2023, except that the Secretary may, at the Secretary's discretion, extend the pilot program for not more than two additional fiscal years.

SEC. 580. CONTINUED ASSISTANCE TO SCHOOLS WITH SIGNIFICANT NUMBERS OF MILITARY DEPENDENT STUDENTS.

(a) ASSISTANCE TO SCHOOLS WITH SIGNIFICANT NUMBERS OF MILITARY DEPENDENT STUDENTS.—Of the amount authorized to be appropriated for fiscal year 2020 in Division D of this Act and available for operation and maintenance for Defense-wide activities as specified in the funding table in Section 4301 of this Act, $40,000,000 shall be available only for the purpose of providing assistance to local educational agencies under subsection (a) of section 572 of the National Defense Authorization Act for Fiscal Year 2006 (Public Law 109–163; 20 U.S.C. 7703b).

(b) IMPACT AID FOR CHILDREN WITH SEVERE DISABILITIES.—Of the amount authorized to be appropriated for fiscal year 2020 in Division D of this Act and available for operation and maintenance for Defense-wide activities as specified in the funding table in Section 4301 of this Act, $10,000,000 shall be available for payments under section 363 of the Floyd D. Spence National Defense Authorization Act for Fiscal Year 2001 (Public Law 106–398; 20 U.S.C. 7703a).

(c) LOCAL EDUCATIONAL AGENCY DEFINED.—In this section, the term ''local educational agency'' has the meaning given that term in section 7013(9) of the Ele-

mentary and Secondary Education Act of 1965 (20 U.S.C. 7713(9)).

Subtitle I—Decorations and Awards

SEC. 581. EXPANSION OF GOLD STAR LAPEL BUTTON ELIGIBILITY TO STEPSIBLINGS; FREE REPLACEMENT.

(a) ELIGIBILITY OF STEPSIBLINGS.—Subsection (d)(3) of section 1126 of title 10, United States Code, is amended by striking ''and half sisters'' and inserting ''half sisters, stepbrothers, and stepsisters''.

(b) FREE REPLACEMENT.—Subsection (c) of such section is amended by striking ''and payment of an amount sufficient to cover the cost of manufacture and distribution'' and inserting ''at no cost to that person''.

SEC. 582. ESTABLISHMENT OF THE ATOMIC VETERANS SERVICE MEDAL.

(a) SERVICE MEDAL REQUIRED.—The Secretary of Defense shall design and produce a military service medal, to be known as the ''Atomic Veterans Service Medal'', to honor retired and former members of the Armed Forces who are radiation-exposed veterans (as such term is defined in section 1112(c)(3) of title 38, United States Code).

(b) DISTRIBUTION OF MEDAL.—

(1) ISSUANCE TO RETIRED AND FORMER MEMBERS.—At the request of a radiation-exposed veteran, the Secretary of Defense shall issue the Atomic Veterans Service Medal to the veteran.

(2) ISSUANCE TO NEXT-OF-KIN.—In the case of a radiation-exposed veteran who is deceased, the Secretary may provide for issuance of the Atomic Veterans Service Medal to the next-of-kin of the person.

(3) APPLICATION.—The Secretary shall prepare and disseminate as appropriate an application by which radiation-exposed veterans and their next-of-kin may apply to receive the Atomic Veterans Service Medal.

SEC. 583. REVIEW OF WORLD WAR I VALOR MEDALS.

(a) REVIEW REQUIRED.—Each Secretary concerned shall review the service records of each World War I veteran described in subsection (b) under the jurisdiction of such Secretary who is recommended for such review by the Valor Medals Review Task Force referred to in subsection (c), or another veterans service organization, in order to determine whether such veteran should be awarded the Medal of Honor for valor during World War I.

(b) COVERED WORLD WAR I VETERANS.—The World War I veterans whose service records are to be reviewed under subsection (a) are the following:

(1) Any African American war veteran, Asian American war veteran, Hispanic American war veteran, Jewish American war veteran, or Native American war veteran who was awarded the Distinguished Service Cross or the Navy Cross for an action that occurred between April 6, 1917, and November 11, 1918.

(2) Any African American war veteran, Asian American war veteran, Hispanic American war veteran, Jewish American war veteran, or Native American war veteran who was awarded the Croix de Guerre with Palm (that is, awarded at the Army level or above) by the Government of France for an action that occurred between April 6, 1917, and November 11, 1918.

(3) Any African American war veteran, Asian American war veteran, Hispanic American war veteran, Jewish American war veteran, or Native American war veteran who was recommended for a Medal of Honor for an action that occurred from April 6, 1917, to November 11, 1918, if the Department of

Defense possesses or receives records relating to such recommendation.

(c) CONSULTATIONS.—In carrying out the review under subsection (a), each Secretary concerned may consult with the Valor Medals Review Task Force, jointly established by the United States Foundation for the Commemoration of the World Wars (in consultation with the United States World War One Centennial Commission) and the George S. Robb Centre for the Study of the Great War, and with such other veterans service organizations as such Secretary determines appropriate, until the conclusion of the review.

(d) RECOMMENDATION BASED ON REVIEW.—If a Secretary concerned determines, based upon the review under subsection (a), that the award of the Medal of Honor to a covered World War I veteran is warranted, such Secretary shall submit to the President a recommendation that the President award the Medal of Honor to that veteran.

(e) AUTHORITY TO AWARD MEDAL OF HONOR.—The Medal of Honor may be awarded to a World War I veteran in accordance with a recommendation of a Secretary concerned under subsection (d).

(f) WAIVER OF TIME LIMITATIONS.—An award of the Medal of Honor may be made under subsection (e) without regard to—

(1) section 7274 or 8298 of title 10, United States Code, as applicable; and

(2) any regulation or other administrative restriction on—

(A) the time for awarding the Medal of Honor; or

(B) the awarding of the Medal of Honor for service for which a Distinguished Service Cross or Navy Cross has been awarded.

(g) DEFINITIONS.—

(1) IN GENERAL.—In this section:

(A) AFRICAN AMERICAN WAR VETERAN.—The term ''African American war veteran'' means any person who served in the United States Armed Forces between April 6, 1917, and November 11, 1918, and who identified himself as of African descent on his military personnel records.

(B) ASIAN AMERICAN WAR VETERAN.—The term ''Asian American war veteran'' means any person who served in the United States Armed Forces between April 6, 1917, and No-

vember 11, 1918, and who identified himself racially, nationally, or ethnically as originating from a country in Asia on his military personnel records.

(C) HISPANIC AMERICAN WAR VETERAN.—The term ''Hispanic American war veteran'' means any person who served in the United States Armed Forces between April 6, 1917, and November 11, 1918, and who identified himself racially, nationally, or ethnically as originating from a country where Spanish is an official language on his military personnel records.

(D) JEWISH AMERICAN WAR VETERAN.—The term ''Jewish American war veteran'' mean any person who served in the United States Armed Forces between April 6, 1917, and November 11, 1918, and who identified himself as Jewish on his military personnel records.

(E) NATIVE AMERICAN WAR VETERAN.—The term ''Native American war veteran'' means any person who served in the United States Armed Forces between April 6, 1917, and November 11, 1918, and who identified himself as a member of a federally recognized

tribe within the modern territory of the United States on his military personnel records.

(F) SECRETARY CONCERNED.—The term ''Secretary concerned'' means—

(i) the Secretary of the Army, in the case of members of the Armed Forces who served in the Army between April 6, 1917, and November 11, 1918; and

(ii) the Secretary of the Navy, in the case of members of the Armed Forces who served in the Navy or the Marine Corps between April 6, 1917, and November 11, 1918.

(2) APPLICATION OF DEFINITIONS OF ORIGIN.—If the military personnel records of a person do not reflect the person's membership in one of the groups identified in subparagraphs (B) through (F) of paragraph (1) but historical evidence exists that demonstrates the person's Jewish faith held at the time of service, or that the person identified himself as of African, Asian, Hispanic, or Native American descent, the person may be treated as being a member of the applicable group by the Secretary concerned (in consultation with the organizations re-

ferred to in subsection (c)) for purposes of this section.

Subtitle J—Miscellaneous Reports and Other Matters

SEC. 591. REPEAL OF QUARTERLY REPORT ON END STRENGTHS.

Section 115(e) of title 10, United States Code, is amended by striking paragraph (3).

SEC. 592. REVISION OF WORKPLACE AND GENDER RELATIONS SURVEYS.

(a) SURVEYS OF MEMBERS OF THE ARMED FORCES.—Section 481(c) of title 10, United States Code, is amended—

(1) in the matter preceding paragraph (1), by inserting ''unwanted sexual contact,'' after ''assault,'';

(2) by redesignating paragraphs (3) through (5) as paragraphs (4) through (6), respectively;

(3) by inserting after paragraph (2), the following new paragraph (3):

''(3) The specific types of unwanted sexual contact that have occurred, and the number of times each respondent has been subjected to unwanted sexual contact during the preceding year.'';

(4) in paragraph (5), as so redesignated, by striking ''and assault'' and inserting ''assault, and unwanted sexual contact'';

(5) in paragraph (6), as so redesignated, by striking ''or assault'' and inserting ''assault, or unwanted sexual contact''.

(b) SURVEYS OF CIVILIAN EMPLOYEES OF THE DEPARTMENT OF DEFENSE.—Section 481a of title 10, United States Code, is amended—

(1) in subsection (a)(1), by striking ''and discrimination'' and inserting ''discrimination, and unwanted sexual contact'';

(2) in subsection (b)—

(A) by redesignating paragraphs (3) through (5) as paragraphs (4) through (6), respectively;

(B) by inserting after paragraph (2) the following new paragraph (3):

''(3) The specific types of unwanted sexual contact that civilian employees of the Department were subjected to by other personnel of the Department (including contractor personnel), and the number of times each respondent has been subjected to unwanted sexual contact during the preceding fiscal year.'';

(C) in paragraph (5), as so redesignated, by striking ''and discrimination'' and inserting ''discrimination, and unwanted sexual contact''; and

(D) in paragraph (6), as so redesignated, by striking ''or discrimination'' and inserting ''discrimination, or unwanted sexual contact''.

(c) EFFECTIVE DATE.—The amendments made by subsections (a) and (b) shall take effect on the date of the enactment of this Act and shall apply with respect to surveys under sections 481 and 481a of title 10, United States Code, that are initiated after such date.

SEC. 593. MODIFICATION OF ELEMENTS OF REPORTS ON THE IMPROVED TRANSITION ASSISTANCE PROGRAM.

Section 552(b)(4) of the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Public Law 115–232) is amended—

(1) by redesignating subparagraphs (A) through (D) as subparagraphs (B) through (E), respectively;

(2) by inserting before subparagraph (B), as redesignated by paragraph (1), the following new subparagraph (A):

"(A) The total number of members eligible to attend Transition Assistance Program counseling."; and

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

"(F) The number of members who participated in programs under section 1143(e) of title 10, United States Code (commonly referred to as 'Job Training, Employment Skills, Apprenticeships and Internships (JTEST-AI)' or 'Skill Bridge').

"(G) Such other information as is required to provide Congress with a comprehensive description of the participation of the members in the Transition Assistance Program and programs described in subparagraph (F).".

SEC. 594. QUESTIONS IN WORKPLACE SURVEYS REGARDING SUPREMACIST, EXTREMIST, AND RACIST ACTIVITY.

The Secretary of Defense shall include, in the workplace and equal opportunity, command climate, and workplace and gender relations surveys administered by the Office of People Analytics of the Department of Defense, questions regarding whether respondents have ever—

(1) experienced or witnessed in the workplace—

(A) supremacist activity;

(B) extremist activity; or

(C) racism; and

(2) reported activity described in paragraph (1).

SEC. 595. COMMAND MATTERS IN CONNECTION WITH TRANSITION ASSISTANCE PROGRAMS.

(a) INCLUSION OF SUPPORT FOR PARTICIPATION IN PROGRAMS IN COMMAND CLIMATE ASSESSMENTS.—Not later than 180 days after the date of the enactment of this Act, each command climate assessment for the commander of a military installation shall include an assessment of the extent to which the commander and other command personnel at the installation encourage and support the participation in covered transition assistance programs of members of the Armed Forces at the installation who are eligible for participation in such programs.

(b) TRAINING ON PROGRAMS.—The training provided a commander of a military installation in connection with the commencement of assignment to the installation shall include a module on the covered transition assistance programs available for members of the Armed Forces assigned to the installation.

(c) COVERED TRANSITION ASSISTANCE PROGRAMS DEFINED.—In this section, the term ''covered transition assistance programs'' means the following:

(1) The Transition Assistance Program.

(2) The programs under section 1143(e) of title 10, United States Code (commonly referred to as ''Job Training, Employment Skills, Apprenticeships and Internships (JTEST–AI)'' or ''Skill Bridge'').

(3) Any program of apprenticeship, on-the-job-training, internship, education, or transition assistance offered (whether by public or private entities) in the vicinity of the military installation concerned in which members of the Armed Forces at the installation are eligible to participate.

(4) Any other program of apprenticeship, on-the-job training, internship, education, or transition assistance specified by the Secretary of Defense for purposes of this section.

SEC. 596. EXPRESSING SUPPORT FOR THE DESIGNATION OF A "GOLD STAR FAMILIES REMEMBRANCE DAY".

(a) FINDINGS.—Congress finds the following:

(1) March 2, 2020, marked the 91st anniversary of President Calvin Coolidge signing an Act of Congress that approved and funded the first Gold Star pilgrimage to enable Gold Star families to travel to the gravesites of their loved ones who died during World War I.

(2) The members of the Armed Forces of the United States bear the burden of protecting the freedom of the people of the United States.

(3) The sacrifices of the families of the fallen members of the Armed Forces of the United States should never be forgotten.

(b) SENSE OF CONGRESS.—It is the sense of Congress to—

(1) support the designation of a ''Gold Star Families Remembrance Day'';

(2) honor and recognize the sacrifices made by the families of members of the Armed Forces of the United States who gave their lives to defend freedom and protect America; and

(3) encourage the people of the United States to observe ''Gold Star Families Remembrance Day'' by—

(A) performing acts of service and good will in their communities; and

(B) celebrating the lives of those who have made the ultimate sacrifice so that others could continue to enjoy life, liberty, and the pursuit of happiness.

TITLE VI—COMPENSATION AND OTHER PERSONNEL BENEFITS

Subtitle A—Pay and Allowances

SEC. 601. CLARIFICATION OF CONTINUATION OF PAYS DURING HOSPITALIZATION AND REHABILITATION RESULTING FROM WOUNDS, INJURY, OR ILLNESS INCURRED WHILE ON DUTY IN A HOSTILE FIRE AREA OR EXPOSED TO AN EVENT OF HOSTILE FIRE OR OTHER HOSTILE ACTION.

Section 372(b)(1) of title 37, United States Code, is amended to read as follows:

"(1) The date on which the member is returned for assignment to other than a medical or patient unit for duty; however, in the case of a member under the jurisdiction of a Secretary of a military department, the date on which the member is determined fit for duty.".

SEC. 602. BASIC NEEDS ALLOWANCE FOR LOW-INCOME REGULAR MEMBERS.

(a) IN GENERAL.—Chapter 7 of title 37, United States Code, is amended by inserting after section 402a the following new section:

"§ 402b. Basic needs allowance for low-income regular members

''(a) ALLOWANCE REQUIRED.—(1) Subject to paragraph (2), the Secretary of Defense shall pay to each covered member a basic needs allowance in the amount determined for such member under subsection (b).

''(2) In the event a household contains two or more covered members entitled to receive the allowance under this section in a given year, only one allowance may be paid for that year to a covered member among such covered members whom such covered members shall jointly elect.

''(b) AMOUNT OF ALLOWANCE FOR A COVERED MEMBER.—(1) The amount of the monthly allowance payable to a covered member under subsection (a) for a year shall be the aggregate amount equal to—

''(A) the aggregate amount equal to—

''(i) 130 percent of the Federal poverty guidelines of the Department of Health and Human Services for the location and number of persons in the household of the covered member for such year; minus

''(ii) the gross household income of the covered member during the preceding year; and

''(B) divided by 12.

1 ''(2) The monthly allowance payable to a covered
2 member for a year shall be payable for each of the 12
3 months following March of such year.

4 ''(c) NOTICE OF ELIGIBILITY.—(1)(A) Not later than
5 December 31 each year, the Director of the Defense Fi-
6 nance and Accounting Service shall notify, in writing, each
7 individual whom the Director estimates will be a covered
8 member during the following year of the potential entitle-
9 ment of that individual to the allowance described in sub-
10 section (a) for that following year.

11 ''(B) The preliminary notice under subparagraph (A)
12 shall include information regarding financial management
13 and assistance programs administered by the Secretary of
14 Defense for which a covered member is eligible.

15 ''(2) Not later than January 31 each year, each indi-
16 vidual who seeks to receive the allowance for such year
17 (whether or not subject to a notice for such year under
18 paragraph (1)) shall submit to the Director such informa-
19 tion as the Director shall require for purposes of this sec-
20 tion in order to determine whether or not such individual
21 is a covered member for such year.

22 ''(3) Not later than February 28 each year, the Di-
23 rector shall notify, in writing, each individual the Director
24 determines to be a covered member for such year.

"(d) ELECTION NOT TO RECEIVE ALLOWANCE.—(1) A covered member otherwise entitled to receive the allowance under subsection (a) for a year may elect, in writing, not to receive the allowance for such year. Any election under this subsection shall be effective only for the year for which made. Any election for a year under this subsection is irrevocable.

"(2) A covered member who does not submit information described in subsection (d)(2) for a year as otherwise required by that subsection shall be deemed to have elected not to receive the allowance for such year.

"(e) DEFINITIONS.—In this section:

"(1) The term 'covered member' means a regular member of the Army, Navy, Marine Corps, or Air Force—

"(A) who has completed initial entry training;

"(B) whose gross household income during the most recent year did not exceed an amount equal to 130 percent of the Federal poverty guidelines of the Department of Health and Human Services for the location and number of persons in the household of the covered member for such year; and

"(C) who does not elect under subsection (d) not to receive the allowance for such year.

"(2) The term 'gross household income' of a covered member for a year for purposes of paragraph (1)(B) does not include any basic allowance for housing received by the covered member (and any dependents of the covered member in the household of the covered member) during such year under section 403 of this title.

"(f) REGULATIONS.—The Secretary of Defense shall prescribe regulations for the administration of this section. Subject to subsection (e)(2), such regulations shall specify the income to be included in, and excluded from, the gross household income of individuals for purposes of this section.".

(b) CLERICAL AMENDMENT.—The table of sections at the beginning of chapter 7 of such title is amended by inserting after the item relating to section 402a the following new item:

"402b. Basic needs allowance for low-income regular members.".

SEC. 603. TEMPORARY INCREASE OF RATES OF BASIC ALLOWANCE FOR HOUSING FOLLOWING DETERMINATION THAT LOCAL CIVILIAN HOUSING COSTS SIGNIFICANTLY EXCEED SUCH RATES.

Section 403(b) of title 37, United States Code, is amended by adding at the end the following new paragraph:

''(8)(A) The Secretary of Defense may prescribe a temporary increase in the current rates of basic allowance for housing for a military housing area or a portion thereof (in this paragraph, 'BAH rates') if the Secretary determines that the actual costs of adequate housing for civilians in that military housing area or portion thereof exceed the current BAH rates by more than 20 percent.

''(B) Any temporary increase in BAH rates under this paragraph shall remain in effect only until the effective date of the first adjustment of BAH rates for the affected military housing area that occurs after the date of the increase under this paragraph.

''(C) This paragraph shall cease to be effective on September 30, 2022.''.

SEC. 604. BASIC ALLOWANCE FOR HOUSING FOR A MEMBER WITHOUT DEPENDENTS WHEN RELOCATION WOULD FINANCIALLY DISADVANTAGE THE MEMBER.

Section 403(o) of title 37, United States Code, is amended—

(1) by inserting ''(1)'' before ''In''; and

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

''(2)(A) In the case of a member described in subparagraph (B), the member may be treated for the purposes of this section as if the unit to which the member is assigned did not undergo a change of home port or a change of permanent duty station if the Secretary concerned determines that it would be inequitable to base the member's entitlement to, and amount of, a basic allowance for housing on the new home port or permanent duty station.

''(B) A member described in this subparagraph—

''(i) has no dependents;

''(ii) is assigned to a unit that undergoes a change of home port or a change of permanent duty station; and

''(iii) is in receipt of orders to return to the previous home port or duty station.''.

SEC. 605. PARTIAL DISLOCATION ALLOWANCE.

(a) CURRENT AUTHORITY.—Section 477(f)(1) of title 37, United States Code, is amended by striking ''family''.

(b) FUTURE AUTHORITY.—Section 452(c) of title 37, United States Code, is amended—

(1) by redesignating paragraph (3) as paragraph (4); and

(2) by inserting after paragraph (2) the following new paragraph (3):

''(3)(A) A partial dislocation allowance paid to a member ordered to occupy or vacate housing provided by the United States.

''(B) Beginning on January 1, 2022, the partial dislocation allowance under subparagraph (A) shall, subject to subparagraph (C), be equal in value to the allowance under section 477(f) of this title on December 31, 2021, as adjusted in regulations prescribed by the Secretary concerned under the authority established by that section.

''(C) Effective on the same date in 2022 and any subsequent year that the monthly rates of basic pay for all members are increased under section 1009 of this title or another provision of law, the Secretary of Defense shall adjust the rate of the partial dislocation allowance under this paragraph

by the percentage equal to the average percentage increase in the rates of basic pay.''.

Subtitle B—Bonuses and Special Incentive Pays

SEC. 611. ONE-YEAR EXTENSION OF CERTAIN EXPIRING BONUS AND SPECIAL PAY AUTHORITIES.

(a) AUTHORITIES RELATING TO RESERVE FORCES.—Section 910(g) of title 37, United States Code, relating to income replacement payments for reserve component members experiencing extended and frequent mobilization for active duty service, is amended by striking ''December 31, 2019'' and inserting ''December 31, 2020''.

(b) TITLE 10 AUTHORITIES RELATING TO HEALTH CARE PROFESSIONALS.—The following sections of title 10, United States Code, are amended by striking ''December 31, 2019'' and inserting ''December 31, 2020'':

(1) Section 2130a(a)(1), relating to nurse officer candidate accession program.

(2) Section 16302(d), relating to repayment of education loans for certain health professionals who serve in the Selected Reserve.

(c) AUTHORITIES RELATING TO NUCLEAR OFFICERS.—Section 333(i) of title 37, United States Code, is

amended by striking ''December 31, 2019'' and inserting ''December 31, 2020''.

(d) AUTHORITIES RELATING TO TITLE 37 CONSOLIDATED SPECIAL PAY, INCENTIVE PAY, AND BONUS AUTHORITIES.—The following sections of title 37, United States Code, are amended by striking ''December 31, 2019'' and inserting ''December 31, 2020'':

(1) Section 331(h), relating to general bonus authority for enlisted members.

(2) Section 332(g), relating to general bonus authority for officers.

(3) Section 334(i), relating to special aviation incentive pay and bonus authorities for officers.

(4) Section 335(k), relating to special bonus and incentive pay authorities for officers in health professions.

(5) Section 336(g), relating to contracting bonus for cadets and midshipmen enrolled in the Senior Reserve Officers' Training Corps.

(6) Section 351(h), relating to hazardous duty pay.

(7) Section 352(g), relating to assignment pay or special duty pay.

(8) Section 353(i), relating to skill incentive pay or proficiency bonus.

(9) Section 355(h), relating to retention incentives for members qualified in critical military skills or assigned to high priority units.

(e) AUTHORITY TO PROVIDE TEMPORARY INCREASE IN RATES OF BASIC ALLOWANCE FOR HOUSING.—Section 403(b)(7)(E) of title 37, United States Code, is amended by striking ''December 31, 2019'' and inserting ''December 31, 2020''.

Subtitle C—Family and Survivor Benefits

SEC. 621. PAYMENT OF TRANSITIONAL COMPENSATION FOR CERTAIN DEPENDENTS.

Section 1059(m) of title 10, United States Code, is amended—

(1) in the subsection heading, by inserting ''MEMBERS OR'' after ''DEPENDENTS OF'';

(2) by inserting ''member or'' before ''former member'' each place it appears; and

(3) by amending paragraph (3) to read as follows:

''(3) For the purposes of this subsection, a member is considered separated from active duty upon the earliest of—

''(A) the date an administrative separation is initiated by a commander of the member;

"(B) the date the court-martial sentence is adjudged if the sentence, as adjudged, includes a dismissal, dishonorable discharge, bad conduct discharge, or forfeiture of all pay and allowances; or

"(C) the date the member's term of service expires.".

SECTION 622. DEATH GRATUITY FOR ROTC GRADUATES.

(a) IN GENERAL.—Section 1475(a)(4) of title 10, United States Code, is amended by adding "; or a graduate of a reserve officers' training corps who has yet to receive a first duty assignment; or" at the end.

(b) EFFECTIVE DATE.—The amendment under subsection (a) applies to deaths that occur on or after the date of the enactment of this Act.

SEC. 623. CONTINUED ELIGIBILITY FOR EDUCATION AND TRAINING OPPORTUNITIES FOR SPOUSES OF PROMOTED MEMBERS.

Section 1784a(b) of title 10, United States Code, is amended—

(1) by inserting "(1)" before "Assistance"; and

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

"(2) A spouse who is eligible for a program under this section and begins a course of education or training for a degree, license, or credential described in subsection

(a) may not become ineligible to complete such course of education or training solely because the member to whom the spouse is married is promoted to a higher grade.''.

SEC. 624. OCCUPATIONAL IMPROVEMENTS FOR RELOCATED SPOUSES OF MEMBERS OF THE UNIFORMED SERVICES.

(a) IMPROVEMENT OF OCCUPATIONAL LICENSE PORTABILITY FOR MILITARY SPOUSES THROUGH INTERSTATE COMPACTS.—Section 1784 of title 10, United States Code, is amended by adding at the end the following new subsection:

''(h) IMPROVEMENT OF OCCUPATIONAL LICENSE PORTABILITY THROUGH INTERSTATE COMPACTS.—

''(1) IN GENERAL.—The Secretary of Defense may enter into a cooperative agreement with the Council of State Governments to assist with funding of the development of interstate compacts on licensed occupations in order to alleviate the burden associated with relicensing in such an occupation by spouse of a members of the armed forces in connection with a permanent change of duty station of members to another State.

''(2) LIMITATION.—The amount provided under paragraph (1) as assistance for the development of

any particular interstate compact may not exceed $1,000,000.

"(3) ANNUAL REPORT.—Not later than February 28 each year, the Secretary shall submit to the Committees on Armed Services of the Senate and the House of Representatives a report on interstate compacts described in paragraph (1) developed through assistance provided under that paragraph. Each report shall set forth the following:

"(A) Any interstate compact developed during the preceding calendar year, including the occupational licenses covered by such compact and the States agreeing to enter into such compact.

"(B) Any interstate compact developed during a prior calendar year into which one or more additional States agreed to enter during the preceding calendar year.

"(4) EXPIRATION.—The authority to enter into a cooperative agreement under paragraph (1), and to provide assistance described in that paragraph pursuant to such cooperative agreement, shall expire on September 30, 2024.".

(b) GUARANTEE OF RESIDENCY FOR REGISTRATION OF BUSINESSES OF SPOUSES OF MEMBERS OF UNIFORMED SERVICES.—

(1) IN GENERAL.—Title VI of the Servicemembers Civil Relief Act (50 U.S.C. 4021 et seq.) is amended by adding at the end the following new section:

"SEC. 707. GUARANTEE OF RESIDENCY FOR BUSINESSES OF SPOUSES OF SERVICEMEMBERS.

''For the purposes of registering a business—

''(1) a person who is absent from a State because the person is accompanying the person's spouse who is absent from that same State in compliance with military or naval orders shall not, solely by reason of that absence—

''(A) be deemed to have lost a residence or domicile in that State, without regard to whether or not the person intends to return to that State;

''(B) be deemed to have acquired a residence or domicile in any other State; or

''(C) be deemed to have become a resident in or a resident of any other State; and

''(2) the spouse of a servicemember may elect to use the same residence as the servicemember re-

gardless of the date on which the marriage of the spouse and the servicemember occurred.''.

(2) CLERICAL AMENDMENT.—The table of contents in section 1(b) of such Act is amended by inserting after the item relating to section 706 the following new item:

''Sec. 707. Guarantee of residency for businesses of spouses of servicemembers.''.

SEC. 625. EXPANSION OF AUTHORITY TO PROVIDE FINANCIAL ASSISTANCE TO CIVILIAN PROVIDERS OF CHILD CARE SERVICES OR YOUTH PROGRAM SERVICES WHO PROVIDE SUCH SERVICES TO SURVIVORS OF MEMBERS OF THE ARMED FORCES WHO DIE IN LINE OF DUTY.

Section 1798(a) of title 10, United States Code, is amended by inserting '', survivors of members of the armed forces who die in line of duty while on active duty, active duty for training, or inactive duty for training,'' after ''armed forces''.

SEC. 626. SPACE-AVAILABLE TRAVEL ON MILITARY AIRCRAFT FOR CHILDREN AND SURVIVING SPOUSES OF MEMBERS WHO DIE OF HOSTILE ACTION OR TRAINING DUTY.

Section 2641b(c) of title 10, United States Code, is amended—

(1) by redesignating paragraph (6) as paragraph (7); and

(2) by inserting after paragraph (5) the following new paragraph (6):

''(6) Children (as described by section 1072(2)(D) or section 1110b(b) of this title, as the case may be) and surviving spouses of members of the armed forces who die as a result of hostile action or training duty.''.

SEC. 627. CONSIDERATION OF SERVICE ON ACTIVE DUTY TO REDUCE AGE OF ELIGIBILITY FOR RETIRED PAY FOR NON-REGULAR SERVICE.

Section 12731(f)(2)(B)(i) of title 10, United States Code, is amended by striking ''under a provision of law referred to in section 101(a)(13)(B) or under section 12301(d)'' and inserting ''under section 12301(d) or 12304b of this title, or under a provision of law referred to in section 101(a)(13)(B)''.

SEC. 628. MODIFICATION TO AUTHORITY TO REIMBURSE FOR STATE LICENSURE AND CERTIFICATION COSTS OF A SPOUSE OF A MEMBER ARISING FROM RELOCATION.

Section 476(p) of title 37, United States Code, is amended—

(1) in paragraph (1), by striking ''armed forces'' and inserting ''uniformed services'';

(2) in paragraph (2), by striking ''$500'' and inserting ''$1,000'';

(3) in paragraph (3)—

(A) in subparagraph (A), by striking ''and'';

(B) in subparagraph (B), by striking the period and inserting ''; and''; and

(C) by adding at the end the following new subparagraph:

''(C) an analysis of whether the maximum reimbursement amount under paragraph (2) is sufficient to cover the average costs of relicensing described in paragraph (1).''; and

(4) in paragraph (4), by striking ''December 31, 2022'' and inserting ''December 31, 2024''.

SEC. 629. IMPROVEMENTS TO CHILD CARE FOR MEMBERS OF THE ARMED FORCES.

(a) EXPANSION OF AUTHORITY TO PROVIDE FINANCIAL ASSISTANCE TO CIVILIAN PROVIDERS OF CHILD CARE SERVICES OR YOUTH PROGRAM SERVICES WHO PROVIDE SUCH SERVICES TO SURVIVORS OF MEMBERS OF THE ARMED FORCES WHO DIE IN THE LINE OF DUTY.—Section 1798(a) of title 10, United States Code,

is amended by inserting ", survivors of members of the armed forces who die in the line of duty while on active military, naval, or air service (as that term is defined in section 101 of title 38)," after "armed forces".

(b) EXPANSION OF DIRECT HIRING AUTHORITY FOR CHILD CARE SERVICE PROVIDERS.—Section 559 of the National Defense Authorization Act for Fiscal Year 2018 (Public Law 115–91; 10 U.S.C. 1792 note) is amended—

(1) in the section heading, by striking "**FOR DEPARTMENT CHILD DEVELOPMENT CENTERS**";

(2) in subsection (a)(1), by striking for "Department of Defense child development centers" and inserting "for the Department of Defense"; and

(3) in subsection (e), by striking "in child development centers".

(c) ASSESSMENT OF FINANCIAL ASSISTANCE PROVIDED TO CIVILIAN CHILD CARE PROVIDERS.—

(1) ASSESSMENT.—The Secretary of Defense shall assess the maximum amount of financial assistance provided to eligible civilian providers of child care services or youth program services that furnish such service for members of the armed forces and employees of the United States under section 1798 of title 10, United States Code, as amend-

ed by subsection (a). Such assessment shall include the following:

(A) The determination of the Secretary whether the maximum allowable financial assistance should be standardized across the Armed Forces.

(B) Whether the maximum allowable amount adequately accounts for high-cost duty stations.

(2) REPORT.—No later than June 1, 2020, the Secretary of Defense shall submit a report to the Committees on Armed Services of the Senate and the House of Representatives regarding the results of the assessment under paragraph (1) and any actions taken by the Secretary to remedy identified shortfalls in assistance described in that paragraph.

(d) ASSESSMENT OF CHILD CARE CAPACITY ON MILITARY INSTALLATIONS.—

(1) ASSESSMENT.—The Secretary of Defense shall assess the capacity for child care at all military installations to ensure that members of the Armed Forces have meaningful access to child care during tours of duty.

(2) REMEDIAL ACTION.—The Secretary of Defense shall take steps the Secretary determines nec-

essary to alleviate the waiting lists for child care described in paragraph (1).

(3) REPORT.—Not later than June 1, 2020, the Secretary of Defense shall provide a report to the Committees on Armed Forces of the Senate and the House of Representative regarding—

(A) the assessment under paragraph (1);

(B) action taken under paragraph (2); and

(C) any additional resources (including additional funding for and child care facilities and workers) the Secretary determines necessary to increase access described in paragraph (1).

(e) ASSESSMENT OF ACCESSIBILITY OF WEBSITES OF THE DEPARTMENT OF DEFENSE RELATED TO CHILD CARE AND SPOUSAL EMPLOYMENT.—

(1) ASSESSMENT.—The Secretary of Defense shall review the functions and accessibility of websites of the Department of Defense designed for members of the Armed Forces and the families of such members to access information and services offered by the Department regarding child care, spousal employment, and other family matters.

(2) REPORT.—Not later than March 1, 2020, the Secretary of Defense shall provide a briefing to the Committees on Armed Services of the Senate

and the House of Representatives regarding the results of the assessment under paragraph (1) and actions taken to enhance accessibility of the websites.

(f) PORTABILITY OF BACKGROUND INVESTIGATIONS FOR CHILD CARE PROVIDERS.—Not later than 180 days after the date of the enactment of this Act, the Secretary of Defense shall ensure that the background investigation and training certification for a child care provider employed by the Department of Defense in a facility of the Department may be transferred to another facility of the Department, without regard to which Secretary of a military department has jurisdiction over either such facility.

SEC. 630. CASUALTY ASSISTANCE FOR SURVIVORS OF DECEASED ROTC GRADUATES.

Section 633 of the National Defense Authorization Act for Fiscal Year 2014 (10 U.S.C. 1475 note) is amended by adding at the end the following new subsection:

"(c) ROTC GRADUATES.—

"(1) TREATED AS MEMBERS.—For purposes of this section, a graduate of a reserve officers' training corps who dies before receiving a first duty assignment shall be treated as a member of the Armed Forces who dies while on active duty.

"(2) EFFECTIVE DATE.—This subsection applies to deaths on or after the date of the enactment

of the National Defense Authorization Act for Fiscal Year 2020.''.

Subtitle D—Defense Resale Matters

SEC. 631. GAO REVIEW OF DEFENSE RESALE OPTIMIZATION STUDY.

(a) REVIEW.—The Comptroller General of the United States shall conduct a review of the business case analysis performed as part of the defense resale optimization study conducted by the Reform Management Group, titled ''Study to Determine the Feasibility of Consolidation of the Defense Resale Entities'' and dated December 4, 2018.

(b) REPORT REQUIRED; ELEMENTS.—Not later than April 1, 2020, the Comptroller General shall submit to the Committees on Armed Services of the Senate and the House of Representatives a report regarding the review performed under this section. The report shall include evaluations of the following:

(1) The descriptions and justifications for the assumptions, analytical choices and data used by the Reform Management Group to calculate:

(A) Pricing.

(B) Sales assumptions.

(C) Accuracy of methods employed to measure patron savings levels.

(2) The timetable for consolidation of military exchanges and commissaries.

(3) The recommendations for consolidation developed as part of the business case analysis, including the overall cost of consolidation.

(4) The budget and oversight implications of merging non-appropriated funds and appropriated funds to implement the recommended reforms.

(5) The extent to which the Reform Management Group coordinated with the Secretaries of the military departments and the chiefs of the Armed Forces in preparing the study.

(6) The extent to which the Reform Management Group addressed concerns of the Secretaries of the military departments and the chiefs of the Armed Forces in the study.

(7) If the recommendations in the business case analysis were implemented—

(A) the ability of military exchanges and commissaries to provide earnings to support on-base morale, welfare, and recreation programs; and

(B) the financial viability of the military exchanges and commissaries.

(c) DELAY ON CONSOLIDATION.—The Secretary of Defense may not take any action to consolidate military exchanges and commissaries until the Committees on Armed Services of the Senate and the House of Representatives notify the Secretary in writing of receipt and acceptance of the findings of the Comptroller General in the report required under this section.

TITLE VII—HEALTH CARE PROVISIONS

Subtitle A—TRICARE and Other Health Care Benefits

SEC. 701. CONTRACEPTION COVERAGE PARITY UNDER THE TRICARE PROGRAM.

(a) IN GENERAL.—Section 1074d of title 10, United States Code, is amended—

(1) in subsection (a), by inserting ''FOR MEMBERS AND FORMER MEMBERS'' after ''SERVICES AVAILABLE'';

(2) by redesignating subsection (b) as subsection (d); and

(3) by inserting after subsection (a) the following new subsections:

''(b) CARE RELATED TO PREVENTION OF PREGNANCY.—Female covered beneficiaries shall be entitled to

1 care related to the prevention of pregnancy described by
2 subsection (d)(3).

3 ''(c) PROHIBITION ON COST SHARING FOR CERTAIN
4 SERVICES.—Notwithstanding section 1074g(a)(6), section
5 1075, or section 1075a of this title, or any other provision
6 of law, cost sharing may not be imposed or collected for
7 care related to the prevention of pregnancy provided pur-
8 suant to subsection (a) or (b), including for any method
9 of contraception provided, whether provided through a fa-
10 cility of the uniformed services, the TRICARE retail phar-
11 macy program, or the national mail-order pharmacy pro-
12 gram.''.

13 (b) CONFORMING AMENDMENT.—Section
14 1077(a)(13) of such title is amended by striking ''section
15 1074d(b)'' and inserting ''section 1074d(d)''.

16 **SEC. 702. PREGNANCY PREVENTION ASSISTANCE AT MILI-**
17 **TARY MEDICAL TREATMENT FACILITIES FOR**
18 **SEXUAL ASSAULT SURVIVORS.**

19 (a) IN GENERAL.—Chapter 55 of title 10, United
20 States Code, is amended by inserting after section 1074o
21 the following new section:

"§ 1074p. Provision of pregnancy prevention assistance at military medical treatment facilities

"(a) INFORMATION AND ASSISTANCE.—The Secretary of Defense shall promptly furnish to sexual assault survivors at each military medical treatment facility the following:

"(1) Comprehensive, medically and factually accurate, and unbiased written and oral information about all methods of emergency contraception approved by the Food and Drug Administration.

"(2) Notification of the right of the sexual assault survivor to confidentiality with respect to the information and care and services furnished under this section.

"(3) Upon request by the sexual assault survivor, emergency contraception or, if applicable, a prescription for emergency contraception.

"(b) INFORMATION.—The Secretary shall ensure that information provided pursuant to subsection (a) is provided in language that—

"(1) is clear and concise;

"(2) is readily comprehensible; and

"(3) meets such conditions (including conditions regarding the provision of information in lan-

guages other than English) as the Secretary may prescribe in regulations to carry out this section.

''(c) DEFINITIONS.—In this section:

''(1) The term 'sexual assault survivor' means any individual who presents at a military medical treatment facility and—

''(A) states to personnel of the facility that the individual experienced a sexual assault;

''(B) is accompanied by another person who states that the individual experienced a sexual assault; or

''(C) whom the personnel of the facility reasonably believes to be a survivor of sexual assault.

''(2) The term 'sexual assault' means the conduct described in section 1565b(c) of this title that may result in pregnancy.''.

(b) CLERICAL AMENDMENT.—The table of sections at the beginning of such chapter is amended by inserting after the item relating to section 1074o the following new item:

''1074p. Provision of pregnancy prevention assistance at military medical treatment facilities.''.

SEC. 703. MODIFICATION OF ELIGIBILITY FOR TRICARE RESERVE SELECT FOR CERTAIN MEMBERS OF THE SELECTED RESERVE.

Section 1076d(a)(2) of title 10, United States Code, is amended by striking ''Paragraph (1) does not apply'' and inserting ''During the period preceding January 1, 2030, paragraph (1) does not apply''.

SEC. 704. LEAD LEVEL SCREENINGS AND TESTINGS FOR CHILDREN.

(a) TRICARE.—

(1) WELL-BABY CARE.—Section 1077 of title 10, United States Code, is amended by adding at the end the following new subsection:

''(i)(1) Beginning January 1, 2020, in furnishing well-baby care under subsection (a)(8), the Secretary shall ensure that the following care is made available:

''(A) With respect to a child who lives in housing built before 1978 at any time during the first 24 months of the life of the child—

''(i) the first testing of the child for the level of lead in the blood of the child at approximately the age of 12 months; and

''(ii) the second such test at approximately the age of 24 months.

''(B) With respect to a child not covered by subparagraph (A) whose parent or guardian, at any

time during the first 24 months of the life of the child, has a military occupational specialty that the Secretary determines poses an elevated risk of lead exposure—

"(i) the first testing of the child for the level of lead in the blood of the child at approximately the age of 12 months; and

"(ii) the second such test at approximately the age of 24 months.

"(C) With respect to a child not covered by subparagraph (A) or (B)—

"(i) the first screening of the child for an elevated risk of lead exposure at approximately the age of 12 months; and

"(ii) the second such screening at approximately the age of 24 months.

"(D) With respect to a child covered by subparagraph (C) whose screening indicates an elevated risk of lead exposure, testing of the child for the level of lead in the blood of the child.

"(2) The Secretary shall ensure that any care provided to a child pursuant to this chapter for lead poisoning, including the care under paragraph (1), is carried out in accordance with applicable advice from the Centers for Disease Control and Prevention.

1 ''(3)(A) With respect to a child who receives a test
2 under paragraph (1), the Secretary shall provide the re-
3 sults of the test to the parent or guardian of the child.
4 ''(B) With respect to a child who receives a test under
5 paragraph (1), the Secretary shall provide the results of
6 the test and the address at which the child resides to—
7 ''(i) the relevant health department of the State
8 in which the child resides if the child resides in the
9 United States; or
10 ''(ii) the Centers for Disease Control and Pre-
11 vention if the child resides outside the United
12 States.
13 ''(C) In providing information regarding a child to
14 a State or the Centers for Disease Control and Prevention
15 under subparagraph (B), the Secretary may not provide
16 any identifying information or health information of the
17 child that is not specifically authorized in such subpara-
18 graph.
19 ''(D) In this paragraph, the term 'State' means each
20 of the several States, the District of Columbia, the Com-
21 monwealth of Puerto Rico, and any territory or possession
22 of the United States.''.
23 (2) CONFORMING AMENDMENT.—Subsection
24 (a)(8) of such section is amended by striking ''in-
25 cluding well-baby care that includes one screening of

an infant for the level of lead in the blood of the infant'' and inserting ''including, in accordance with subsection (i), well-baby care that includes screenings and testings for lead exposure and lead poisoning''.

(3) STUDY.—Not later than January 1, 2021, the Secretary of Defense shall submit to the congressional defense committees a report detailing the following:

(A) The number of children who were tested for the level of lead in the blood of the child pursuant to subparagraph (A) of subsection (i)(1) of section 1077 of title 10, United States Code, as added by paragraph (1), and of such number, the number who were found to have elevated blood lead levels.

(B) The number of children who were tested for the level of lead in the blood of the child pursuant to subparagraph (B) of such subsection (i)(1), and of such number, the number who were found to have lead poisoning.

(C) The number of children who were screened for an elevated risk of lead exposure pursuant to subparagraph (C) of such subsection (i)(1).

(D) The number of children who were tested for the level of lead in the blood of the child pursuant to subparagraph (D) of such subsection, and of such number, the number who were found to have elevated blood lead levels.

(E) The treatment provided to children pursuant to chapter 55 of title 10, United States Code, for lead poisoning.

(4) GAO REPORT.—Not later than January 1, 2022, the Comptroller General of the United States shall submit to the congressional defense committees a report on the effectiveness of screening, testing, and treating children for lead exposure and lead poisoning pursuant to chapter 55 of title 10, United States Code.

(b) NOTIFICATION OF HOUSING.—Section 403 of title 37, United States Code, is amended by adding at the end the following new subsection:

"(p) RECORDS REGARDING HOUSING AND LEAD-BASED PAINT.—(1) The Secretary concerned shall keep a record of whether the following housing was built before, during, or after 1978:

"(A) Quarters of the United States under the jurisdiction of that Secretary concerned.

"(B) A housing facility under the jurisdiction of that Secretary concerned.

"(C) Other housing in which a member of the uniformed service of that Secretary concerned resides.

"(2) As a condition of receipt of a basic allowance for housing under this section, a member of the uniformed services shall notify the Secretary concerned whether the housing in which that member resides was built before, during, or after 1978.".

SEC. 705. EXPOSURE TO OPEN BURN PITS AND TOXIC AIRBORNE CHEMICALS OR OTHER AIRBORNE CONTAMINANTS AS PART OF PERIODIC HEALTH ASSESSMENTS AND OTHER PHYSICAL EXAMINATIONS.

(a) PERIODIC HEALTH ASSESSMENT.—The Secretary of Defense shall ensure that any periodic health assessment provided to members of the Armed Forces includes an evaluation of whether the member has been—

(1) based or stationed at a location where an open burn pit was used; or

(2) exposed to toxic airborne chemicals or other airborne contaminants, including any information recorded as part of the Airborne Hazards and Open Burn Pit Registry.

(b) SEPARATION HISTORY AND PHYSICAL EXAMINATIONS.—Section 1145(a)(5) of title 10, United States Code, is amended by adding at the end the following new subparagraph:

"(C) The Secretary concerned shall ensure that each physical examination of a member under subparagraph (A) includes an assessment of whether the member was—

"(i) based or stationed at a location where an open burn pit, as defined in subsection (c) of section 201 of the Dignified Burial and Other Veterans' Benefits Improvement Act of 2012 (Public Law 112–260; 38 U.S.C. 527 note), was used; or

"(ii) exposed to toxic airborne chemicals or other airborne contaminants, including any information recorded as part of the registry established by the Secretary of Veterans Affairs under such section 201.".

(c) DEPLOYMENT ASSESSMENTS.—Section 1074f(b)(2) of title 10, United States Code, is amended by adding at the end the following new subparagraph:

"(D) An assessment of whether the member was—

"(i) based or stationed at a location where an open burn pit, as defined in subsection (c) of section 201 of the Dignified Burial and

Other Veterans' Benefits Improvement Act of 2012 (Public Law 112–260; 38 U.S.C. 527 note), was used; or

"(ii) exposed to toxic airborne chemicals or other airborne contaminants, including any information recorded as part of the registry established by the Secretary of Veterans Affairs under such section 201.".

(d) SHARING OF INFORMATION.—

(1) DOD–VA.—The Secretary of Defense and the Secretary of Veterans Affairs shall jointly enter into a memorandum of understanding providing for the sharing by the Department of Defense with the Department of Veterans Affairs of the results of covered evaluations regarding the exposure by a member of the Armed Forces to toxic airborne chemicals or other airborne contaminants.

(2) REGISTRY.—If a covered evaluation of a member of the Armed Forces establishes that the member was based or stationed at a location where an open burn pit was used or that the member was exposed to toxic airborne chemicals or other airborne contaminants, the member shall be enrolled in the Airborne Hazards and Open Burn Pit Registry unless the member elects to not so enroll.

(e) RULE OF CONSTRUCTION.—Nothing in this section may be construed to preclude eligibility for benefits under the laws administered by the Secretary of Veterans Affairs by reason of the open burn pit exposure history of a veteran not being recorded in a covered evaluation.

(f) DEFINITIONS.—In this section:

(1) The term ''Airborne Hazards and Open Burn Pit Registry'' means the registry established by the Secretary of Veterans Affairs under section 201 of the Dignified Burial and Other Veterans' Benefits Improvement Act of 2012 (Public Law 112–260; 38 U.S.C. 527 note).

(2) The term ''covered evaluation'' means—

(A) a periodic health assessment conducted in accordance with subsection (a);

(B) a separation history and physical examination conducted under section 1145(a)(5) of title 10, United States Code, as amended by this section; and

(C) a deployment assessment conducted under section 1074f(b)(2) of such title, as amended by this section.

(3) The term ''open burn pit'' has the meaning given that term in section 201(c) of the Dignified Burial and Other Veterans' Benefits Improvement

Act of 2012 (Public Law 112–260; 38 U.S.C. 527 note).

SEC. 706. ENHANCEMENT OF RECORDKEEPING AND POSTDEPLOYMENT MEDICAL ASSESSMENT REQUIREMENTS RELATED TO OCCUPATIONAL AND ENVIRONMENTAL HAZARD EXPOSURE DURING DEPLOYMENT.

(a) RECORDING OF OCCUPATIONAL AND ENVIRONMENTAL HEALTH RISKS IN DEPLOYMENT AREA.—

(1) ELEMENTS OF MEDICAL TRACKING SYSTEM.—Subsection (b)(1)(A) of section 1074f of title 10, United States Code, is amended—

(A) in clause (ii), by striking ''and'' at the end;

(B) in clause (iii), by striking the period at the end and inserting ''; and''; and

(C) by adding at the end the following new clause:

''(iv) accurately record any exposure to occupational and environmental health risks during the course of their deployment.''.

(2) RECORDKEEPING.—Subsection (c) of such section is amended by inserting after ''deployment area'' the following: ''(including the results of any

assessment performed by the Secretary of occupational and environmental health risks for such area)''.

(3) EFFECTIVE DATE.—The amendments made by this subsection shall take effect on the date of the enactment of this Act.

(b) INTEGRATION OF BURN PIT REGISTRY INFORMATION INTO ELECTRONIC HEALTH RECORDS.—

(1) UPDATES TO ELECTRONIC HEALTH RECORDS.—Beginning not later than one year after the date of the enactment of this Act—

(A) the Secretary of Defense shall ensure that the electronic health record maintained by such Secretary of a member of the Armed Forces registered with the burn pit registry is updated with any information contained in such registry; and

(B) the Secretary of Veterans Affairs shall ensure that the electronic health record maintained by such Secretary of a veteran registered with the burn pit registry is updated with any information contained in such registry.

(2) BURN PIT REGISTRY DEFINED.—In this subsection, the term ''burn pit registry'' means the registry established under section 201 of the Dig-

nified Burial and Other Veterans' Improvements Act of 2012 (Public Law 112–260; 38 U.S.C. 527 note).

(c) POSTDEPLOYMENT MEDICAL EXAMINATION AND REASSESSMENTS.—

(1) ADDITIONAL REQUIREMENTS.—Section 1074f of title 10, United States Code is further amended by adding at the end the following new subsection:

''(g) ADDITIONAL REQUIREMENTS FOR POSTDEPLOYMENT MEDICAL EXAMINATIONS AND HEALTH REASSESSMENTS.—(1) The Secretary of Defense shall—

''(A) standardize and make available to a provider that conducts a postdeployment medical examination or reassessment under the system described in subsection (a) questions relating to occupational and environmental health exposure; and

''(B) prior to an examination or reassessment of a member of the armed forces, require such provider to review information applicable to such member—

''(i) in a Periodic Occupational and Environmental Monitoring Summary (or any successor document); and

"(ii) on the Defense Occupational and Environmental Health Readiness System (or any successor system).

"(2) The Secretary shall ensure that the medical record of a member includes information on the external cause relating to a diagnosis of the member, including by associating an external cause code (as issued under the International Statistical Classification of Diseases, 10th Revision (or any successor revision))."

(2) EFFECTIVE DATE.—The amendments made by this subsection shall take effect 180 days after the date of the enactment of this Act.

(d) REPORT BY COMPTROLLER GENERAL OF THE UNITED STATES.—Not later than two years after the date of the enactment of this Act, the Comptroller General of the United States shall submit to the congressional defense committees and the Committees on Veterans' Affairs of the House of Representatives and the Senate a report containing an evaluation of the implementation of this section (and the amendments made by this section), including an assessment of the extent to which the Secretary of Defense and Secretary of Veterans Affairs are in compliance with the applicable requirements of this section (and the amendments made by this section).

SEC. 707. MODIFICATIONS TO POST-DEPLOYMENT MENTAL HEALTH ASSESSMENTS FOR MEMBERS OF THE ARMED FORCES DEPLOYED IN SUPPORT OF A CONTINGENCY OPERATION.

(a) REQUIRED ASSESSMENTS.—Section 1074m(a)(1) of title 10, United States Code, is amended by striking subparagraphs (C) and (D) and inserting the following new subparagraphs:

"(C) Subject to paragraph (3) and subsection (d), once during the period beginning on the date of redeployment from the contingency operation and ending 14 days after such redeployment date.

"(D) Subject to subsection (d), not less than once annually—

"(i) beginning 14 days after the date of redeployment from the contingency operation; or

"(ii) if the assessment required by subparagraph (C) is performed during the period specified in paragraph (3), beginning 180 days after the date of redeployment from the contingency operation.".

(b) EXCEPTIONS.—Section 1074m(a) of such title, as amended by subsection (a), is further amended by striking paragraph (2) and inserting the following new paragraphs:

"(2) A mental health assessment is not required for a member of the armed forces under subparagraphs (C) and (D) of paragraph (1) (including an assessment performed pursuant to paragraph (3)) if the Secretary determines that providing such assessment to the member during the time periods under such subparagraphs would remove the member from forward deployment or put members or operational objectives at risk.

"(3) A mental health assessment required under subparagraph (C) of paragraph (1) may be provided during the period beginning 90 days after the date of redeployment from the contingency operation and ending 180 days after such redeployment date if the Secretary determines that—

"(A) an insufficient number of personnel are available to perform the assessment during the time period under such subparagraph; or

"(B) an administrative processing issue exists upon the return of the member to the home unit or duty station that would prevent the effective performance of the assessment during such time period.".

(c) EFFECTIVE DATE.—The amendments made by this section shall apply with respect to a date of redeployment that is on or after January 1, 2020.

SEC. 708. PROVISION OF BLOOD TESTING FOR FIREFIGHTERS OF DEPARTMENT OF DEFENSE TO DETERMINE EXPOSURE TO PERFLUOROALKYL AND POLYFLUOROALKYL SUBSTANCES.

The Secretary of Defense shall include, as part of the annual physical examination provided by the Secretary to each firefighter of the Department of Defense, blood testing to determine and document the potential exposure of such firefighters to perfluoroalkyl and polyfluoroalkyl substances (commonly known as ''PFAS'').

Subtitle B—Health Care Administration

SEC. 711. REQUIREMENTS FOR CERTAIN PRESCRIPTION DRUG LABELS.

(a) REQUIREMENT.—Section 1074g of title 10, United States Code, is amended—

(1) by redesignating subsections (h) and (i) as subsections (i) and (j), respectively; and

(2) by inserting after subsection (g) the following new subsection (h):

''(h) LABELING.—The Secretary of Defense shall ensure that drugs made available through the facilities of the armed forces under the jurisdiction of the Secretary include labels that—

"(1) are printed and physically located on or within the package from which the drug is to be dispensed; and

"(2) provide adequate directions for the purposes for which the drug is intended.".

(b) CONFORMING AMENDMENT.—Subsection (b)(1) of such section is amended by striking "under subsection (h)" and inserting "under subsection (j)".

(c) IMPLEMENTATION.—Beginning not later than 90 days after the date of the enactment of this Act, the Secretary of Defense shall implement subsection (h) of section 1074g of title 10, United States Code, as added by subsection (a).

SEC. 712. OFFICERS AUTHORIZED TO COMMAND ARMY DENTAL UNITS.

Section 7081(d) of title 10, United States Code, is amended by striking "Dental Corps Officer" and inserting "commissioned officer of the Army Medical Department".

SEC. 713. IMPROVEMENTS TO LEADERSHIP OF INTER-AGENCY PROGRAM OFFICE OF THE DEPARTMENT OF DEFENSE AND THE DEPARTMENT OF VETERANS AFFAIRS.

Subsection (c) of section 1635 of the Wounded Warrior Act (title XVI of Public Law 110–181; 10 U.S.C. 1071 note) is amended to read as follows:

1 ''(c) LEADERSHIP.—
2 ''(1) DIRECTOR.—The Director of the Office
3 shall be the head of the Office.
4 ''(2) DEPUTY DIRECTOR.—The Deputy Director
5 of the Office shall be the deputy head of the Office
6 and shall assist the Director in carrying out the du-
7 ties of the Director.
8 ''(3) REPORTING.—The Director shall report to
9 the Department of Veterans Affairs-Department of
10 Defense Joint Executive Committee established by
11 section 320 of title 38, United States Code.
12 ''(4) APPOINTMENTS.—
13 ''(A) DIRECTOR.—The Director shall be
14 jointly appointed by the Secretary of Veterans
15 Affairs and the Secretary of Defense for a five-
16 year term. The Director may be reappointed for
17 one or more additional terms.
18 ''(B) DEPUTY DIRECTOR.—The Deputy
19 Director shall be jointly appointed by the Sec-
20 retary of Veterans Affairs and the Secretary of
21 Defense for a five-year term. The Deputy Di-
22 rector may be reappointed for one or more ad-
23 ditional terms.
24 ''(C) ADVICE.—The Department of Vet-
25 erans Affairs-Department of Defense Joint Ex-

ecutive Committee shall provide the Secretary of Veterans Affairs and the Secretary of Defense with advice regarding potential individuals to be appointed Director and Deputy Director under subparagraphs (A) and (B), respectively.

"(D) MINIMUM QUALIFICATIONS.—The Department of Veterans Affairs-Department of Defense Joint Executive Committee shall develop qualification requirements for the office of the Director and the Deputy Director. Such requirements shall ensure that, at a minimum, the Director and Deputy Director, individually or together, meet the following qualifications:

"(i) Significant experience as a clinician, at the level of chief medical officer or equivalent.

"(ii) Significant experience in health informatics, at the level of chief health informatics officer or equivalent.

"(iii) Significant experience leading implementation of enterprise-wide technology in a health care setting in the public or private sector.

"(5) ADDITIONAL GUIDANCE.—In addition to providing direction, supervision, and control of the

Office pursuant to paragraph (3), the Department of Veterans Affairs-Department of Defense Joint Executive Committee shall—

"(A) provide guidance in the discharge of the functions of the Office under this section; and

"(B) facilitate the establishment of a charter and mission statement for the Office.

"(6) INFORMATION TO CONGRESS.—Upon request by any of the appropriate committees of Congress, the Director and the Deputy Director shall testify before such committee, or provide a briefing or otherwise provide requested information to such committee, regarding the discharge of the functions of the Office under this section.".

SEC. 714. INCLUSION OF BLAST EXPOSURE HISTORY IN MEDICAL RECORDS OF MEMBERS OF THE ARMED FORCES.

(a) REQUIREMENT.—The Secretary of Defense, in coordination with the Secretaries of the military departments, shall document blast exposure history in the medical record of a member of the Armed Forces to—

(1) assist in determining whether a future illness or injury of the member is service-connected; and

(2) inform future blast exposure risk mitigation efforts of the Department of Defense.

(b) ELEMENTS.—A blast exposure history under subsection (a) shall include, at a minimum, the following:

(1) The date of the exposure.

(2) The duration of the exposure, and, if known, the measured blast pressure experienced by the individual during such exposure.

(3) Whether the exposure occurred during combat or training.

(4) Such other information relating to the exposure as the Secretary of Defense may specify pursuant to the guidance described in subsection (c)(1).

(c) COLLECTION OF EXPOSURE INFORMATION.—The Secretary of Defense shall collect blast exposure information with respect to a member of the Armed Forces in a manner—

(1) consistent with blast exposure measurement training guidance of the Department, including any new guidance developed pursuant to—

(A) the study on blast pressure exposure required by section 734 of the National Defense Authorization Act for Fiscal Year 2018 (Public Law 115–91; 131 Stat. 1444); and

(B) the review of guidance on blast exposure during training required by section 253 of the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Public Law 115–232; 132 Stat. 1704, 10 U.S.C. 2001 note);

(2) compatible with training and operational objectives; and

(3) that is automated, to the extent practicable, to minimize the reporting burden of unit commanders.

(d) REPORT.—Not later than one year after the date of the enactment of this Act, the Secretary of Defense shall submit to the Committees on Armed Services of the Senate and the House of Representatives a report on the types of information included in a blast exposure history under subsection (a).

SEC. 715. COMPREHENSIVE POLICY FOR PROVISION OF MENTAL HEALTH CARE TO MEMBERS OF THE ARMED FORCES.

(a) POLICY REQUIRED.—Not later than 180 days after the date of the enactment of this Act, the Secretary of Defense, acting through the Under Secretary of Defense for Personnel and Readiness, shall develop and im-

plement a comprehensive policy for the provision of mental health care to members of the Armed Forces.

(b) ELEMENTS.—The policy under subsection (a) shall address each of the following:

(1) The compliance of health professionals in the military health system engaged in the provision of health care services to members with clinical practice guidelines for—

(A) suicide prevention;

(B) medication-assisted therapy for alcohol use disorders; and

(C) medication-assisted therapy for opioid use disorders.

(2) The access and availability of mental health care services to members who are victims of sexual assault or domestic violence.

(3) The availability of naloxone reversal capability on military installations.

(4) The promotion of referrals of members by civilian health care providers to military medical treatment facilities when such members are—

(A) at high risk for suicide and diagnosed with a psychiatric disorder; or

(B) receiving treatment for opioid use disorders.

(5) The provision of comprehensive behavioral health treatment to members of the reserve components that takes into account the unique challenges associated with the deployment pattern of such members and the difficulty such members encounter post-deployment with respect to accessing such treatment in civilian communities.

(c) CONSIDERATION.—In developing the policy under subsection (a), the Secretary of Defense shall solicit and consider recommendations from the Secretaries of the military departments and the Chairman of the Joint Chiefs of Staff regarding the feasibility of implementation and execution of particular elements of the policy.

(d) REPORT.—Not later than 18 months after the date of the enactment of this Act, the Secretary of Defense shall submit to the Committees on Armed Services of the Senate and the House of Representatives a report on the implementation of the policy under subsection (a).

SEC. 716. LIMITATION ON THE REALIGNMENT OR REDUCTION OF MILITARY MEDICAL MANNING END STRENGTH.

(a) LIMITATION.—Except as provided by subsection (d), the Secretary of Defense and the Secretaries concerned may not realign or reduce military medical end strength authorizations until—

(1) each review is conducted under paragraph (1) of subsection (b);

(2) each analysis is conducted under paragraph (2) of such subsection;

(3) the measurement is developed under paragraph (3) of such subsection;

(4) each plan and forum is provided under paragraph (4) of such subsection; and

(5) a period of 90 days elapses following the date on which the Secretary submits the report under subsection (c).

(b) REVIEWS, ANALYSES, AND OTHER INFORMATION.—

(1) REVIEW.—Each Secretary concerned, in coordination with the Chairman of the Joint Chiefs of Staff, shall conduct a review of the medical manpower requirements of the military department of the Secretary that accounts for all national defense strategy scenarios.

(2) ANALYSES.—With respect to each military medical treatment facility that would be affected by a proposed military medical end strength realignment or reduction, the Secretary concerned shall conduct an analysis that—

(A) identifies affected billets; and

(B) includes a plan for mitigating any potential gap in health care services caused by such realignment or reduction.

(3) MEASUREMENT.—The Secretary of Defense shall—

(A) develop a standard measurement for network adequacy to determine the capacity of the local health care network to provide care for covered beneficiaries in the area of a military medical treatment facility that would be affected by a proposed military medical end strength realignment or reduction; and

(B) use such measurement in carrying out this section and otherwise evaluating proposed military medical end strength realignment or reductions.

(4) OUTREACH.—The Secretary of Defense shall provide to each member of the Armed Forces and covered beneficiary located in the area of a military medical treatment facility that would be affected by a proposed military medical end strength realignment or reduction the following:

(A) A transition plan for continuity of health care services.

(B) A public forum to discuss the concerns of the member and covered beneficiary regarding such proposed realignment or reduction.

(c) REPORT.—Not later than 180 days after the date of the enactment of this Act, the Secretary of Defense shall submit to the Committees on Armed Services of the House of Representatives and the Senate a report on the proposed military medical end strength realignments or reductions, including—

(1) the reviews, analyses, and other information developed under subsection (b); and

(2) a description of the actions the Secretary plans to take with respect to such proposed realignments or reductions.

(d) EXCEPTION.—The limitation in subsection (a) shall not apply to billets of a medical department of a military department that have remained unfilled since at least October 1, 2018. The Secretary concerned may realign or reduce such a billet if the Secretary determines that such realignment or reduction does not affect the provision of health care services to members of the Armed Forces or covered beneficiaries.

(e) DEFINITIONS.—In this section:

(1) The term ''covered beneficiary'' has the meaning given that term in section 1072 of title 10, United States Code.

(2) The term ''proposed military medical end strength realignment or reduction'' means a realignment or reduction of military medical end strength authorizations as proposed by the budget of the President for fiscal year 2020 submitted to Congress pursuant to section 1105 of title 31, United States Code.

(3) The term ''Secretary concerned'' means—

(A) the Secretary of the Army, with respect to matters concerning the Army;

(B) the Secretary of the Navy, with respect to matters concerning the Navy, the Marine Corps, and the Coast Guard when it is operating as a service in the Department of the Navy; and

(C) the Secretary of the Air Force, with respect to matters concerning the Air Force.

SEC. 717. STRATEGY TO RECRUIT AND RETAIN MENTAL HEALTH PROVIDERS.

Not later than 180 days after the date of the enactment of this Act, the Secretary of Defense shall submit to the congressional defense committees a report that—

(1) describes the shortage of mental health providers of the Department of Defense;

(2) explains the reasons for such shortage;

(3) explains the effect of such shortage on members of the Armed Forces; and

(4) contains a strategy to better recruit and retain mental health providers, including with respect to psychiatrists, psychologists, mental health nurse practitioners, licensed social workers, and other licensed providers of the military health system.

SEC. 718. MONITORING MEDICATION PRESCRIBING PRACTICES FOR THE TREATMENT OF POST-TRAUMATIC STRESS DISORDER.

(a) REPORT.—

(1) IN GENERAL.—Not later than 180 days after the date of enactment of this Act, the Secretary of Defense shall submit to the Committees on Armed Services of the House of Representatives and the Senate a report on the practices for prescribing medication during the period beginning January 1, 2012, and ending December 31, 2017, that were inconsistent with the post-traumatic stress disorder medication guidelines developed by the Department of Defense and the Veterans Health Administration.

(2) CONTENTS.—The report under this subsection shall include the following:

(A) A summary of the practices of the Army, Navy, and the Air Force, for prescribing medication during the period referred to in paragraph (1) that were inconsistent with the post-traumatic stress disorder medication guidelines developed by the Department of Defense and the Veterans Health Administration.

(B) Identification of medical centers serving members of the Armed Forces found to having higher than average incidences of prescribing medication during the period referred to in paragraph (1) that were inconsistent with the post-traumatic stress disorder guidelines.

(C) A plan for such medical centers to reduce the prescribing of medications that are inconsistent with the post-traumatic stress disorder guidelines.

(D) A plan for ongoing monitoring of medical centers found to have higher than average incidences of prescribing medication that were inconsistent with the post-traumatic stress disorder guidelines by the Department of Defense and the Veterans Health Administration.

(b) MONITORING PROGRAM.—Based on the findings of the report under subsection (a), the Secretaries of the Army, the Navy, and the Air Force shall each establish a monitoring program carried out with respect to such branch of the Armed Forces that shall provide as follows:

(1) The monitoring program shall provide for the conduct of periodic reviews, beginning October 1, 2019, of medication prescribing practices of its own providers.

(2) The monitoring program shall provide for regular reports, beginning October 1, 2020, to the Department of Defense and the Veterans Health Administration, of the results of the periodic reviews pursuant to paragraph (1) of this subsection.

(3) The monitoring program shall establish internal procedures, not later than October 1, 2020, to address practices for prescribing medication that are inconsistent with the post-traumatic stress disorder medication guidelines developed by the Department of Defense and the Veterans Health Administration.

Subtitle C—Reports and Other Matters

SEC. 721. ESTABLISHMENT OF MILITARY DENTAL RESEARCH PROGRAM.

(a) IN GENERAL.—Chapter 104 of title 10, United States Code, is amended by inserting after section 2116 the following new section:

"§ 2116a. Military dental research

''(a) DEFINITIONS.—In this section:

''(1) The term 'military dental research' means research on the furnishing of dental care and services by dentists in the armed forces.

''(2) The term 'TriService Dental Research Program' means the program of military dental research authorized under this section.

''(b) PROGRAM AUTHORIZED.—The Secretary of Defense may establish at the University a program of military dental research.

''(c) TRISERVICE RESEARCH GROUP.—The TriService Dental Research Program shall be administered by a TriService Dental Research Group composed of Army, Navy, and Air Force dentists who are involved in military dental research and are designated by the Secretary concerned to serve as members of the group.

1 ''(d) DUTIES OF GROUP.—The TriService Dental Re-
2 search Group described in subsection (c) shall—
3 ''(1) develop for the Department of Defense
4 recommended guidelines for requesting, reviewing,
5 and funding proposed military dental research
6 projects; and
7 ''(2) make available to Army, Navy, and Air
8 Force dentists and officials of the Department of
9 Defense who conduct military dental research—
10 ''(A) information about dental research
11 projects that are being developed or carried out
12 in the Army, Navy, and Air Force; and
13 ''(B) expertise and information beneficial
14 to the encouragement of meaningful dental re-
15 search.
16 ''(e) RESEARCH TOPICS.—For purposes of this sec-
17 tion, military dental research includes research on the fol-
18 lowing issues:
19 ''(1) Issues regarding how to ensure the readi-
20 ness of members of the armed forces on active duty
21 and in the reserve components with respect to the
22 provision of dental care and services.
23 ''(2) Issues regarding preventive dentistry and
24 disease management, including early detection of
25 needs.

"(3) Issues regarding how to improve the results of dental care and services provided in the armed forces in time of peace.

"(4) Issues regarding how to improve the results of dental care and services provided in the armed forces in time of war.

"(5) Issues regarding minimizing or eliminating emergent dental conditions and dental disease and non-battle injuries in deployed settings.

"(6) Issues regarding how to prevent complications associated with dental-related battle injuries.

"(7) Issues regarding how to prevent complications associated with the transportation of dental patients in the military medical evacuation system.

"(8) Issues regarding the use of technological advances, including teledentistry.

"(9) Issues regarding psychological distress in receiving dental care and services.

"(10) Issues regarding how to improve methods of training dental personnel, including dental assistants and dental extenders.

"(11) Wellness issues relating to dental care and services.

"(12) Case management issues relating to dental care and services.

"(13) Issues regarding the use of alternate dental care delivery systems, including the employment of interprofessional practice models incorporating multiple health professions.".

(b) CLERICAL AMENDMENT.—The table of sections at the beginning of chapter 104 of such title is amended by inserting after the item relating to section 2116 the following new item:

"2116a. Military dental research.".

SEC. 722. PILOT PROGRAM ON CRYOPRESERVATION AND STORAGE.

(a) PILOT PROGRAM.—The Secretary of Defense shall establish a pilot program to provide not more than 1,000 members of the Armed Forces serving on active duty with the opportunity to cryopreserve and store their gametes prior to deployment to a combat zone.

(b) PERIOD.—

(1) IN GENERAL.—The Secretary shall provide for the cryopreservation and storage of gametes of a participating member of the Armed Forces under subsection (a), at no cost to the member, in a facility of the Department of Defense or at a private entity pursuant to a contract under subsection (d) until the date that is one year after the retirement, separation, or release of the member from the Armed Forces.

(2) CONTINUED CRYOPRESERVATION AND STORAGE.—At the end of the one-year period specified in paragraph (1), the Secretary shall authorize an individual whose gametes were cryopreserved and stored in a facility of the Department as described in that paragraph to select, including pursuant to an advance medical directive or military testamentary instrument completed under subsection (c), one of the following options:

(A) To continue such cryopreservation and storage in such facility with the cost of such cryopreservation and storage borne by the individual.

(B) To transfer the gametes to a private cryopreservation and storage facility selected by the individual.

(C) To authorize the Secretary to dispose of the gametes of the individual not earlier than the date that is 90 days after the end of the one-year period specified in paragraph (1) with respect to the individual.

(c) ADVANCE MEDICAL DIRECTIVE AND MILITARY TESTAMENTARY INSTRUMENT.—A member of the Armed Forces who elects to cryopreserve and store their gametes under this section shall complete an advance medical di-

rective described in section 1044c(b) of title 10, United States Code, and a military testamentary instrument described in section 1044d(b) of such title, that explicitly specifies the use of their cryopreserved and stored gametes if such member dies or otherwise loses the capacity to consent to the use of their cryopreserved and stored gametes.

(d) AGREEMENTS.—To carry out this section, the Secretary may enter into agreements with private entities that provide cryopreservation and storage services for gametes.

SEC. 723. ENCOURAGEMENT OF PARTICIPATION IN WOMEN'S HEALTH TRANSITION TRAINING PILOT PROGRAM.

(a) ENCOURAGEMENT OF PARTICIPATION.—The Secretaries of the military departments shall encourage female members of the Armed Forces who are separating or retiring from the Armed Forces during fiscal year 2020 to participate in the Women's Health Transition Training pilot program (in this section referred to as the ''pilot program'') administered by the Secretary of Veterans Affairs.

(b) SELECTION.—Each Secretary of a military department shall select at least one location at which the pilot program is offered and encourage participation in the pilot program at such location.

(c) REPORT.—Not later than September 30, 2020, the Secretary of Defense, in consultation with the Secretary of Veterans Affairs, shall submit to the Committees on Armed Services of the Senate and the House of Representatives and the Committees on Veterans' Affairs of the Senate and House of Representatives a report on the pilot program that includes the following:

(1) For the period since the commencement of the pilot program—

(A) the number of courses held under the pilot program;

(B) the locations at which such courses were held; and

(C) for each location identified in subparagraph (B)—

(i) the number of female members by military department (with respect to Department of the Navy, separately for the Navy and Marine Corps) who participated in the pilot program; and

(ii) the number of seats available under the pilot program.

(2) Data relating to—

(A) satisfaction with courses held under the pilot program;

(B) improved awareness of health care services administered by the Secretary of Veterans Affairs; and

(C) any other available statistics regarding the pilot program.

(3) A discussion of regulatory, legal, or resource barriers to—

(A) making the pilot program permanent to enable access by a greater number of female members at locations throughout the United States;

(B) offering the pilot program online for female members who are unable to attend courses held under the pilot program in person; and

(C) providing for automatic enrollment of participants in the pilot program in the patient enrollment system of the Department of Veterans Affairs established and operated under section 1705 of title 38, United States Code.

SEC. 724. NATIONAL GUARD SUICIDE PREVENTION PILOT PROGRAM.

(a) PILOT PROGRAM AUTHORIZED.—The Chief of the National Guard Bureau may carry out a pilot program to expand suicide prevention and intervention efforts at

the community level through the use of a mobile application that provides the capability for a member of the National Guard to receive prompt support, including access to a behavioral health professional, on a smartphone, tablet computer, or other handheld mobile device.

(b) ELEMENTS.—The pilot program shall include, subject to such conditions as the Secretary may prescribe—

(1) the use by members of the National Guard of an existing mobile application that provides the capability described in subsection (a); or

(2) the development and use of a new mobile application that provides such capability.

(c) ELIGIBILITY AND PARTICIPATION REQUIREMENTS.—The Chief of the National Guard Bureau shall establish requirements with respect to eligibility and participation in the pilot program.

(d) ASSESSMENT PRIOR TO PILOT PROGRAM COMMENCEMENT.—Prior to commencement of the pilot program, the Chief of the National Guard Bureau shall—

(1) conduct an assessment of existing prevention and intervention efforts of the National Guard in each State that include the use of mobile applications that provide the capability described in subsection (a) to determine best practices for providing

immediate and localized care through the use of such mobile applications; and

(2) determine the feasibility of expanding existing programs on a national scale.

(e) RESPONSIBILITIES OF ENTITIES PARTICIPATING IN PILOT PROGRAM.—Each entity that participates in the pilot program shall—

(1) share best practices with other entities participating in the program; and

(2) annually assess outcomes with respect to members of the National Guard.

(f) TERM.—The pilot program shall terminate on the date that is three years after the date on which the pilot program commenced.

(g) REPORTS.—

(1) INITIAL REPORT.—If the Chief of the National Guard Bureau commences the pilot program authorized under subsection (a), not later than 180 days after the date of the commencement of such program, the Chief shall submit to the Committees on Armed Services of the Senate and the House of Representatives a report containing a description of the pilot program and such other matters as the Chief considers appropriate.

(2) FINAL REPORT.—

(A) IN GENERAL.—Not later than 180 days after the termination of the pilot program, the Chief of the National Guard Bureau shall submit to the Committees on Armed Services of the Senate and the House of Representatives a report on such pilot program.

(B) MATTERS INCLUDED.—The report under subparagraph (A) shall include the following:

(i) A description of the pilot program, including any partnerships entered into by the Chief of the National Guard Bureau under the program.

(ii) An assessment of the effectiveness of the pilot program.

(iii) A description of costs associated with the implementation of the pilot program.

(iv) The estimated costs of making the pilot program permanent.

(v) A recommendation as to whether the pilot program should be extended or made permanent.

(vi) Such other recommendations for legislative or administrative action as the

Chief of the National Guard Bureau considers appropriate.

(h) STATE DEFINED.—In this section, the term "State" means each of the several States, the District of Columbia, the Commonwealth of Puerto Rico, American Samoa, Guam, the United States Virgin Islands, and the Commonwealth of the Northern Mariana Islands.

SEC. 725. REPORTS ON SUICIDE AMONG MEMBERS OF THE ARMED FORCES.

(a) REPORTS.—Not later than 90 days after the date of the enactment of this Act, and annually thereafter through January 31, 2021, the Secretary of Defense shall submit to the Committees on Armed Services of the House of Representatives and the Senate a report on suicide among members of the Armed Forces during the year preceding the date of the report.

(b) MATTERS INCLUDED.—Each report under subsection (a) shall include the following with respect to the year covered by the report:

(1) The number of suicides, attempted suicides, and occurrences of suicidal ideation involving a member of the Armed Forces, including the reserve components thereof, listed by Armed Force.

(2) The number of suicides, attempted suicides, or suicidal ideation identified under paragraph (1) that occurred during each of the following periods:

(A) The first 180 days of the member serving in the Armed Forces.

(B) The period in which the member is deployed in support of a contingency operation.

(3) With respect to the number of suicides, attempted suicides, or suicidal ideation identified under paragraph (2)(A), the initial recruit training location of the member.

(4) The number of suicides involving a dependent of a member.

(5) A description of any research collaborations and data sharing by the Department of Defense with the Department of Veterans Affairs, other departments or agencies of the Federal Government, academic institutions, or nongovernmental organizations.

(6) Identification of a research agenda for the Department of Defense to improve the evidence base on effective suicide prevention treatment and risk communication.

(7) A description of the effectiveness of the policies developed pursuant to section 567 of the

Carl Levin and Howard P. ''Buck'' McKeon National Defense Authorization Act for Fiscal Year 2015 (Public Law 113–291; 10 U.S.C. 1071 note) and section 582 of the National Defense Authorization Act for Fiscal Year 2013 (Public Law 112–239; 10 U.S.C. 1071 note), including with respect to—

(A) metrics identifying effective treatment modalities for members of the Armed Forces who are at risk for suicide (including any clinical interventions involving early identification and treatment of such members);

(B) metrics for the rate of integration of mental health screenings and suicide risk and prevention for members during the delivery of primary care for such members;

(C) metrics relating to the effectiveness of suicide prevention and resilience programs and preventative behavioral health programs of the Department of Defense (including those of the military departments and the Armed Forces); and

(D) metrics evaluating the training standards for behavioral health care providers to ensure that such providers have received training

on clinical best practices and evidence-based treatments.

SEC. 726. STUDY ON MILITARY-CIVILIAN INTEGRATED HEALTH DELIVERY SYSTEMS.

(a) STUDY.—The Secretary of Defense shall conduct a study on the use of local integrated military-civilian integrated health delivery systems pursuant to section 706 of the National Defense Authorization Act for Fiscal Year 2017 (Public Law 114–328; 10 U.S.C. 1096 note). The study shall examine the following:

(1) Geographic locations where military medical treatment facilities have existing contractual relationships with local civilian health care networks, including Fort Drum, New York, Joint Base McGuire-Dix-Lakehurst, New Jersey, Joint Base Lewis-McCord, Washington, Fort Leonard Wood, Missouri, Elmendorf Air Force Base, Alaska, Fort Sill, Oklahoma, Tripler Army Medical Center, Hawaii, the National Capital Region, and similar locations.

(2) Health care activities that promote value-based care, measurable health outcomes, patient safety, timeliness of referrals, and transparent communication with covered beneficiaries.

(3) Locations where health care providers of the Department of Defense may be able to attain critical

wartime readiness skills in a local integrated military-civilian integrated health delivery system.

(4) The cost of providing care under an integrated military-civilian integrated health delivery system as compared to health care provided by a managed care support contractor.

(b) SUBMISSION.—Not later than 180 days after the date of the enactment of this Act, the Secretary of Defense shall submit to the Committees on Armed Services of the House of Representatives and the Senate a report on the results of the study under subsection (a).

(c) DEFINITIONS.—In this section:

(1) The term ''covered beneficiaries'' has the meaning given that term in section 1072 of title 10, United States Code.

(2) The term ''National Capital Region'' has the meaning given that term in section 2674 of title 10, United States Code.

SEC. 727. STUDY ON CASE MANAGEMENT AT MILITARY MEDICAL TREATMENT FACILITIES.

(a) STUDY.—The Secretary of Defense shall conduct a study on the effectiveness of case management practices at military medical treatment facilities. The study shall include the following:

(1) A standardized definition of case management.

(2) An evaluation of case management practices provided by the military departments before and during the transition of the administration of military medical treatment facilities to the Defense Health Agency pursuant to section 1073c of title 10, United States Code.

(3) A discussion of the metrics involved with determining the effectiveness of case management and the cost of case management.

(4) A review of case management best practices in the private sector, including with respect to—

(A) the intervals at which patients should be contacted;

(B) the role of the case manager in coordination;

(C) the approximate number of patients managed by a case manager; and

(D) any other best practices relating to case management that would improve the experience of care within the military health system.

(5) The results of a discussion with covered beneficiaries (as defined in section 1072 of title 10, United States Code) in a public forum on case man-

agement in military medical treatment facilities administered by the Defense Health Agency.

(b) REPORT.—Not later than 180 days after the date of the enactment of this Act, the Secretary of Defense shall submit to the Committees on Armed Services of the House of Representatives and the Senate a report on the results of the study under subsection (a).

SEC. 728. STUDY ON INFERTILITY AMONG MEMBERS OF THE ARMED FORCES.

(a) STUDY.—Not later than 180 days after the date of the enactment of this Act, the Secretary of Defense shall submit to the Committees on Armed Services of the House of Representatives and the Senate a study on the incidence of infertility among members of the Armed Forces, including the reserve components thereof.

(b) MATTERS INCLUDED.—The study shall include the following:

(1) The number of members of the Armed Forces serving as of the date of the study who are diagnosed with common causes of infertility, such as polycystic ovary syndrome, pelvic inflammatory disease, uterine fibroids, endometriosis, sexually transmitted disease, testicular disorders, and male endocrine disorders.

(2) The number of members serving as of the date of the study whose infertility has no known cause.

(3) The incidence of miscarriage among women members, listed by Armed Force and military occupation.

(4) A comparison of the rates of infertility and miscarriage in the Armed Forces to such rates in the civilian population, as reported by the Centers for Disease Control and Prevention.

(5) Demographic information of the members described in paragraphs (1), (2), and (3), include with respect to race, ethnicity, sex, age, military occupation, and possible exposures during military service to hazardous elements such as chemical and biologic agents.

(6) An assessment of the ease or delay for members in obtaining treatment for infertility, including in vitro fertilization, including—

(A) the wait times at each military medical treatment facility that has community partnerships to provide in vitro fertilization;

(B) the number of members described in paragraph (1) who are candidates for in vitro fertilization or other infertility treatments but

cannot obtain such treatments because of the location at which the member is stationed or the duties of the member; and

(C) a discussion of the reasons members cease seeking such treatments through the military health system.

(7) Criteria used by the Secretary to determine service connection for infertility, including whether screenings for levels of toxins are undertaken when the cause of infertility cannot be determined.

(8) The policy of the Department of Defense, as of the date of the study, for ensuring geographic stability during treatment of women members undergoing in vitro fertilization for either service-connected or non-service-connected infertility.

TITLE VIII—ACQUISITION POLICY, ACQUISITION MANAGEMENT, AND RELATED MATTERS

Subtitle A—Acquisition Policy and Management

SEC. 801. ESTABLISHMENT OF ACQUISITION PATHWAYS FOR SOFTWARE APPLICATIONS AND SOFTWARE UPGRADES.

(a) GUIDANCE REQUIRED.—Not later than March 1, 2020, the Secretary of Defense shall establish guidance authorizing the use of acquisition pathways described in subsection (b) for the rapid acquisition of software applications and software upgrades that are intended to be fielded within one year. A contract awarded under this section—

(1) shall be in an amount equal to or less than $50,000,000; and

(2) may be entered into for a period of not more than one year.

(b) SOFTWARE ACQUISITION PATHWAYS.—The guidance required by subsection (a) shall provide for the use of the following two acquisition pathways:

(1) APPLICATIONS.—The applications pathway shall provide for the use of rapid development and

implementation of software applications to be used with commercially available hardware.

(2) UPGRADES.—The upgrades pathway shall provide for the rapid development and insertion of software upgrades for embedded weapon systems or another hardware system solely used by the Department of Defense.

(c) GENERAL REQUIREMENTS.—The guidance required by subsection (a) shall provide for—

(1) the use of proven technologies and solutions to continuously engineer, update, and deliver capabilities in software; and

(2) a streamlined and coordinated requirements, budget, and acquisition process that results in the rapid fielding of software applications and software upgrades.

(d) EXPEDITED PROCESS.—

(1) IN GENERAL.—An acquisition conducted under the guidance required by subsection (a) shall not be subject to the Joint Capabilities Integration and Development System Manual and Department of Defense Directive 5000.01, except to the extent specifically provided in such guidance.

(2) REQUIREMENTS PROCESS.—The guidance required by subsection (a) shall provide that the re-

quirements for acquisition of software applications and software upgrades—

(A) are developed, refined, and prioritized on an iterative basis through continuous participation and collaboration by users, testers, and requirements authorities;

(B) include an identification of the need for, and users of, the software to be acquired and a rationale for how the software will support increased efficiency of the Department of Defense;

(C) are stated in the form of a summary-level list of vulnerabilities in existing software systems and desired features or capabilities of the software to be acquired; and

(D) consider issues related to lifecycle costs, systems interoperability, and logistics support if the developer of the software to be acquired stops providing support.

(4) EXECUTION OF RAPID ACQUISITIONS.—The Secretary shall ensure that—

(A) an acquisition conducted under the guidance required by subsection (a) is supported by an entity capable of regular automated testing of the source code of the software

to be acquired and that such entity is authorized to buy storage, bandwidth, and computing capability as necessary;

(B) the Department of Defense can collect and analyze the testing data described in subparagraph (A) to make decisions regarding software acquisition and oversight;

(C) the Director of Operational Test and Evaluation and the project manager appointed under paragraph (5) design test cases to ensure that the entity described in subparagraph (A) can test the software to be acquired to ensure such software meets the requirements of the contract;

(D) the project manager appointed under paragraph (5) closely monitors the progress of an acquisition conducted under the guidance required by subsection (a);

(E) an independent cost estimate is conducted that considers—

(i) the iterative process of the development of the software to be acquired; and

(ii) the long-term value of the software to be acquired to the Department of

Defense, not based on the value of individual lines of source code of the software;

(F) the performance of fielded versions of the software to be acquired are demonstrated and evaluated in an operational environment; and

(G) performance metrics of the software to be acquired, such as metrics relating to when the software can be fielded, delivery capabilities of the software (including speed of recovery from outages and cybersecurity vulnerabilities), and assessments and estimations of the size and complexity of such software, are automatically generated on a continuous basis and made available to the Department of Defense and the congressional defense committees.

(5) ADMINISTRATION OF SOFTWARE ACQUISITION PATHWAYS.—The guidance required by subsection (a) may provide for the use of any of the following streamlined procedures:

(A) The service acquisition executive of the military department concerned shall appoint a project manager for each acquisition of software applications and software upgrades, as determined by the service acquisition executive. Such

project manager shall be appointed from among civilian employees or members of the Armed Forces who have significant and relevant experience in current software processes.

(B) Each project manager shall report with respect to such acquisition directly, and without intervening review or approval, to the service acquisition executive of the military department concerned.

(C) The service acquisition executive of the military department concerned shall evaluate the job performance of such manager on an annual basis. In conducting an evaluation under this paragraph, a service acquisition executive shall consider the extent to which the manager has achieved the objectives of the acquisition for which the manager is responsible, including quality, timeliness, and cost objectives.

(D) The project manager shall be authorized staff positions for a technical staff, including experts in software engineering to enable the manager to manage the acquisition without the technical assistance of another organizational unit of an agency to the maximum extent practicable.

(E) The project manager shall be authorized, in coordination with the users and testers of the software to be acquired, to make trade-offs among lifecycle costs, requirements, and schedules to meet the goals of the acquisition.

(F) The service acquisition executive or the Under Secretary of Defense for Acquisition and Sustainment, as applicable, shall serve as the decision authority for the acquisition.

(G) The project manager of a defense streamlined acquisition shall be provided a process to expeditiously seek a waiver from Congress from any statutory or regulatory requirement that the project manager determines adds little or no value to the management of the acquisition.

(e) CONTRACT TERMS.—

(1) IN GENERAL.—A contract entered into pursuant to the guidance required by subsection (a)—

(A) may be awarded within a 90-day period after solicitation on the basis of—

(i) statements of qualifications and past performance data submitted by offerors; and

(ii) discussions with two or more qualified offerors without regard to price;

(B) may be a time-and-materials contract;

(C) shall be treated as a contract for the acquisition of commercial services (as defined in section 103a of title 41, United States Code, as in effect on January 1, 2020);

(D) shall identify the individuals to perform the work of the contract, and such individuals may not be replaced without the advance written consent of the contracting officer; and

(E) may allow for a contractor performing the work of the contract to review existing software in consultation with the user community and incorporate user feedback to—

(i) define and prioritize software requirements; and

(ii) design and implement new software applications and software upgrades.

(2) OPTIONS.—A contract entered into pursuant to the guidance required by subsection (a) may contain an option to extend the contract once, for a period not to exceed one year, to complete the implementation of one or more specified software applications and software upgrades identified during the

period of the initial contract. Such an option may not be in an amount greater than $100,000,000 and—

(A) if the option is a time-and-materials contract, it shall be treated as a contract for the acquisition of commercial services (as defined in section 103a of title 41, United States Code); and

(B) if the option is a fixed-price contract, it shall be treated as a contract for the acquisition of commercial products (as defined in section 103 of title 41, United States Code).

(f) RULE OF CONSTRUCTION.—Nothing in this section shall be deemed to prevent the use of other methods of acquisition to procure software applications and upgrades.

(g) CONFORMING AMENDMENT.—Section 2430(a)(2) of title 10, United States Code, is amended—

(1) in subparagraph (A), by striking ''or'' at the end;

(2) in subparagraph (B), by striking the period at the end and inserting ''; or''; and

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

"(C) an acquisition program for software applications and software upgrades carried out using the acquisition guidance issued pursuant to section 801 of the National Defense Authorization Act for Fiscal Year 2020.".

SEC. 802. SOFTWARE DEVELOPMENT AND SOFTWARE ACQUISITION TRAINING AND MANAGEMENT PROGRAMS.

(a) ESTABLISHMENT OF SOFTWARE DEVELOPMENT AND SOFTWARE ACQUISITION TRAINING AND MANAGEMENT PROGRAMS.—

(1) IN GENERAL.—The Secretary of Defense, acting through the Under Secretary of Defense for Acquisition and Sustainment and in consultation with the Under Secretary of Defense for Research and Engineering and the Chief Information Officer of the Department of Defense, shall establish software development and software acquisition training and management programs for all software acquisition professionals, software developers, and other appropriate individuals, as determined by the Secretary of Defense to earn a certification in software development and software acquisition.

(2) PROGRAM CONTENTS.—The programs established under paragraph (1) shall—

(A) develop and expand the use of specialized training programs for chief information officers of the military departments and the Defense Agencies, service acquisition executives, program executive officers, and program managers to include training on and experience in—

(i) continuous software development; and

(ii) acquisition pathways available to acquire software;

(B) ensure program managers for major defense acquisition programs, defense business systems, and other software programs of the Department of Defense—

(i) have demonstrated competency in current software processes;

(ii) have the skills to lead a workforce that can quickly meet challenges, use software tools that prioritize continuous or frequent upgrades as such tools become available, take up opportunities provided by new innovations, and plan software activities in short iterations to learn from risks of software testing; and

(iii) have the experience and training to delegate technical oversight and execution decisions; and

(C) include continuing education courses and experiential training to help individuals maintain skills learned through the programs.

(b) REPORTS.—

(1) REPORTS REQUIRED.—The Secretary shall submit to the congressional defense committees—

(A) not later than 90 days after the date of the enactment of this Act, an initial report; and

(B) not later than one year after the date of the enactment of this Act, a final report.

(2) CONTENTS.—Each report required under paragraph (1) shall include—

(A) the status of implementing the software development and software acquisition training and management programs established under subsection (a)(1);

(B) a description of the requirements for certification, including the requirements for competencies in current software processes;

(C) a description of potential career paths in software development and software acquisition within the Department of Defense;

(D) an independent assessment conducted by the Defense Innovation Board of the progress made on implementing the programs established under subsection (a)(1); and

(E) any recommendations for changes to existing law to facilitate the implementation of the programs established under subsection (a)(1).

(c) DEFINITIONS.—In this section:

(1) PROGRAM EXECUTIVE OFFICER; PROGRAM MANAGER.—The terms ''program executive officer'' and ''program manager'' have the meanings given those terms, respectively, in section 1737 of title 10, United States Code.

(2) SERVICE ACQUISITION EXECUTIVE.—The terms ''military department'', ''Defense Agency'', and ''service acquisition executive'' have the meanings given those terms, respectively, in section 101 of title 10, United States Code.

(3) MAJOR DEFENSE ACQUISITION PROGRAM.—The term ''major defense acquisition program'' has

the meaning given in section 2430 of title 10, United States Code.

(4) DEFENSE BUSINESS SYSTEM.—The term ''defense business system'' has the meaning given in section 2222(i)(1) of title 10, United States Code.

SEC. 803. MODIFICATIONS TO COST OR PRICING DATA FOR CERTAIN PROCUREMENTS.

(a) COST OR PRICING DATA FOR CERTAIN COMMERCIAL PRODUCTS.—

(1) IN GENERAL.—Section 2306a(b)(4) of title 10, United States Code, is amended by adding at the end the following new subparagraph:

''(D) If the head of contracting activity determines, based on market research, that a commercial item will be solely procured by the Department of Defense, the offeror of such commercial product shall provide cost or pricing data to the contracting officer pursuant to subsection (a).''.

(2) CONFORMING AMENDMENT.—Effective January 1, 2020, subparagraph (D) of section 2306a(b)(4) of title 10, United States Code, as added by paragraph (1), is amended by striking ''commercial item'' and inserting ''commercial product''.

(b) DATA OTHER THAN CERTIFIED COST OR PRICING DATA FOR SOLE SOURCE CONTRACT AWARDS.—

(1) IN GENERAL.—Not later than 60 days after the date of the enactment of this Act, the Secretary of Defense shall revise the Defense Supplement to the Federal Acquisition Regulation to require an offeror for a sole source contract, subcontract, or modification of a sole source contract or subcontract, to submit to the contracting officer data other than certified cost or pricing data under section 2306a(d) of title 10, United States Code, for purposes of determining the reasonableness of the price of the contract, subcontract, or modification of the contract or subcontract.

(2) PENALTY.—With respect to an offeror that fails to comply with the requirements established under paragraph (1), the Secretary of Defense may—

(A) suspend or debar such offeror; or

(B) include a notation on such offeror in the system used by the Federal Government to monitor or record contractor past performance.

(c) SHOULD-COST ANALYSIS FOR COMMERCIAL PRODUCT PROCUREMENTS.—The Director of the Defense Contract Management Agency shall identify which com-

mercial products (as defined in section 103 of title 41, United States Code, as in effect on January 1, 2020) should be analyzed under the should-cost review process before the Secretary of Defense enters into a contract to procure such a commercial product.

(d) GUIDELINES AND RESOURCES ON THE ACQUISITION OR LICENSING OF INTELLECTUAL PROPERTY.—Section 2322 of title 10, United States Code, is amended by adding at the end the following new subsection:

"(c) GUIDELINES AND RESOURCES.—

"(1) IN GENERAL.—The Secretary of Defense, acting through the Under Secretary of Defense for Acquisition and Sustainment, shall develop guidelines and resources on the acquisition or licensing of intellectual property, including—

"(A) model forms for specially negotiated licenses described under section 2320(f) (as appropriate); and

"(B) an identification of definitions, key terms, examples, and case studies that resolve ambiguities in the differences between—

"(i) detailed manufacturing and process data;

"(ii) form, fit, and function data; and

"(iii) data required for operations, maintenance, installation, and training.

"(2) CONSULTATION.—In developing the guidelines and resources described in paragraph (1), the Secretary shall regularly consult with appropriate stakeholders, including large and small businesses, traditional and non-traditional contractors (including subcontractors), and maintenance repair organizations.".

SEC. 804. MODIFICATIONS TO COST OR PRICING DATA ON BELOW-THRESHOLD CONTRACTS.

(a) BELOW-THRESHOLD CIVILIAN CONTRACTS.—Section 3504 of title 41, United States Code is amended—

(1) by striking "head of the procuring activity" each place it appears and inserting "contracting officer";

(2) in subsection (b), by striking "or (2)"; and

(3) by striking subsection (c).

(b) BELOW-THRESHOLD DEFENSE CONTRACTS.—Section 2306a(c) of title 10, United States Code, is amended—

(1) by striking "head of the procuring activity" each place it appears and inserting "contracting officer";

(2) in paragraph (2), by striking "or (B)"; and

(3) by striking paragraph (3).

SEC. 805. COMPTROLLER GENERAL REPORT ON PRICE REASONABLENESS.

Not later than March 31, 2021, the Comptroller General of the United States shall submit to the congressional defense committees, the Committee on Oversight and Reform of the House of Representatives, and the Committee on Homeland Security and Governmental Affairs of the Senate a report on the efforts of the Secretary of Defense to secure data relating to the price reasonableness of offers from offerors. The report shall include a review of—

(1) the number of, and justification for, any waiver of requirements for submission of certified cost or pricing data for sole source contracts for spare parts issued during fiscal years 2015 through 2019 pursuant to section 2306a(b)(1)(C) of title 10, United States Code;

(2) the number of, and justification for, any exception to the requirements for submission of certified cost or pricing data for sole source contracts for spare parts provided during fiscal years 2015 through 2019 pursuant to section 2306a(b)(1)(B) of title 10, United States Code;

(3) the number of contracts awarded for which a request for cost or pricing data, including data

other than certified cost or pricing data, to determine price reasonableness was denied by an offeror at the time of award;

(4) actions taken by the Secretary if an offeror refused to provide request data described in paragraph (2), including—

(A) whether the contracting officer included a notation in the system used by the Federal Government to monitor or record contractor past performance regarding the refusal of an offeror to provide such data;

(B) any strategies developed by the Secretary to acquire the good that was the subject of a contract for which the offeror refused to provide such data in the future without the need for such a waiver.

SEC. 806. REQUIREMENT THAT CERTAIN SHIP COMPONENTS BE MANUFACTURED IN THE NATIONAL TECHNOLOGY AND INDUSTRIAL BASE.

(a) ADDITIONAL PROCUREMENT LIMITATION.—Section 2534(a) of title 10, United States Code, is amended by adding at the end the following new paragraph:

"(6) COMPONENTS FOR AUXILIARY SHIPS.—Subject to subsection (k), the following components:

"(A) Auxiliary equipment, including pumps, for all shipboard services.

"(B) Propulsion system components, including engines, reduction gears, and propellers.

"(C) Shipboard cranes.

"(D) Spreaders for shipboard cranes.".

(b) IMPLEMENTATION.—Such section is further amended by adding at the end the following new subsection:

"(k) IMPLEMENTATION OF AUXILIARY SHIP COMPONENT LIMITATION.—Subsection (a)(6) applies only with respect to contracts awarded by the Secretary of a military department for new construction of an auxiliary ship after the date of the enactment of the National Defense Authorization Act for Fiscal Year 2020 using funds available for National Defense Sealift Fund programs or Shipbuilding and Conversion, Navy. For purposes of this subsection, the term 'auxiliary ship' does not include an icebreaker.".

SEC. 807. ACQUISITION AND DISPOSAL OF CERTAIN RARE EARTH MATERIALS.

(a) GUIDANCE ON STREAMLINED ACQUISITION OF COVERED RARE EARTH MATERIALS.—

(1) IN GENERAL.—Not later than 180 days after the date of the enactment of this Act, the Under Secretary of Defense for Acquisition and

Sustainment, in consultation with the Under Secretary of Defense (Comptroller), the Vice Chairman of the Joint Chiefs of Staff, and the appropriate Under Secretary of State designated by the Secretary of State shall establish guidance to—

(A) enable the acquisition of items containing rare earth materials; and

(B) establish a secure supply chain for rare earth materials from sources within the United States and covered foreign sources.

(2) CONTENTS.—The guidance required by paragraph (1) shall encourage the use of rare earth materials mined, refined, processed, melted, or sintered in the United States and include—

(A) a determination of when best value contracting methods should be used to ensure the viability of a rare earth material supplier;

(B) a guide to the applicability of relevant statutes, including sections 2533b and 2533c of title 10, United States Code, and other statutory or regulatory restrictions to defense contracts and subcontracts;

(C) information on current sources within the United States and covered foreign sources of rare earth materials along with commonly

used commercial documentation and review processes;

(D) directives on budgeting and expending funds for the qualification and certification of suppliers of rare earth materials within the United States to meet national security needs; and

(E) any exceptions to the Joint Capabilities Integration and Development System Manual and Department of Defense Directive 5000.01.

(3) REPORT.—Not later than 180 days after the date of the enactment of this Act, the Under Secretary of Defense for Acquisition and Sustainment, in consultation with the appropriate Under Secretary of State designated by the Secretary of State, shall submit to the congressional defense committees, the Committee on Foreign Affairs of the House of Representatives, and the Committee on Foreign Relations of the Senate a report on—

(A) the guidance required by paragraph (1); and

(B) the efforts of the Secretary of Defense to create and maintain secure supply chain for

rare earth materials from sources within the United States and covered foreign sources.

(4) DEFINITIONS.—In this subsection:

(A) COVERED FOREIGN SOURCE.—The term ''covered foreign source'' means a source located in a foreign country that is not an adversary of the United States, as determined by the Secretary of Defense.

(B) RARE EARTH MATERIAL.—The term ''rare earth material'' means a concentrate, oxide, carbonate, fluoride, metal, alloy, magnet, or finished product whose chemical, magnetic, or nuclear properties are largely defined by the presence of—

(i) yttrium;

(ii) scandium; or

(iii) any lanthanide series element.

(b) AUTHORITY TO DISPOSE OF AND ACQUIRE MATERIALS FOR THE NATIONAL DEFENSE STOCKPILE.—

(1) DISPOSAL AUTHORITY.—Pursuant to section 5(b) of the Strategic and Critical Materials Stock Piling Act (50 U.S.C. 98d(b)), the National Defense Stockpile Manager shall dispose of 3,000,000 pounds of tungsten ores and concentrates contained in the National Defense Stockpile (in ad-

dition to any amount previously authorized for disposal).

(2) ACQUISITION AUTHORITY.—

(A) AUTHORITY.—Using funds available in the National Defense Stockpile Transaction Fund, the National Defense Stockpile Manager may acquire the following materials determined to be strategic and critical materials required to meet the defense, industrial, and essential civilian needs of the United States:

(i) Aerospace-grade rayon.

(ii) Electrolytic manganese metal.

(iii) Pitch-based carbon fiber.

(iv) Rare earth cerium compounds.

(v) Rare earth lanthanum compounds.

(B) AMOUNT OF AUTHORITY.—The National Defense Stockpile Manager may use up to $37,420,000 in the National Defense Stockpile Transaction Fund for acquisition of the materials specified in subsection (b).

(C) FISCAL YEAR LIMITATION.—The authority under subsection (b) is available for purchases during fiscal year 2020 through fiscal year 2024.

(c) NATIONAL DEFENSE STOCKPILE SALES.—

(1) SENSE OF CONGRESS.—It is the sense of Congress that tantalum should be designated as a strategic and critical material under the Strategic and Critical Materials Stock Piling Act (50 U.S.C. 98 et seq.), required to meet the defense, industrial, and essential civilian needs of the United States.

(2) NATIONAL DEFENSE STOCKPILE SALES OF TANTALUM.—Section 2533c(d)(1) of title 10, United States code, is amended—

(A) in subparagraph (C), by striking ''and'' at the end;

(B) in subparagraph (D), by striking the period at the end and inserting ''; and''; and

(C) adding at the end the following new subparagraph:

''(E) tantalum.''.

(3) PROHIBITION ON SALES OF MATERIALS.—Section 2533c(a)(2) of title 10, United States Code, is amended by striking ''covered'' before ''material''.

SEC. 808. PROHIBITION ON ACQUISITION OF TANTALUM FROM NON-ALLIED FOREIGN NATIONS.

Subsection (d)(1) of section 2533c of title 10, United States Code, is amended—

(1) in subparagraph (C), by striking ''and'' at the end;

(2) in subparagraph (D), by striking the period at the end and inserting "; and"; and

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

"(E) tantalum.".

SEC. 809. APPLICATION OF MISCELLANEOUS TECHNOLOGY BASE POLICIES AND PROGRAMS TO THE COLUMBIA-CLASS SUBMARINE PROGRAM.

Notwithstanding subchapter V of chapter 148 of title 10, United States Code (except for sections 2534, 2533a, and 2533b of such title), for a period of one year beginning on the date of the enactment of this Act, the milestone decision authority (as defined in section 2366a of title 10, United States Code) for the Columbia-class submarine program shall ensure that such program maintains the schedule approved under the Milestone B approval (as defined in such section).

SEC. 810. APPLICATION OF LIMITATION ON PROCUREMENT OF GOODS OTHER THAN UNITED STATES GOODS TO THE FFG–FRIGATE PROGRAM.

Notwithstanding any other provision of law, amounts authorized to carry out the FFG–Frigate Program may be used to award a new contract that provides for the acquisition of the following components regardless of wheth-

er those components are manufactured in the United States:

(1) Auxiliary equipment (including pumps) for shipboard services.

(2) Propulsion equipment (including engines, reduction gears, and propellers).

(3) Shipboard cranes.

(4) Spreaders for shipboard cranes.

SEC. 811. CONSIDERATION OF PRICE IN PROCUREMENT OF THE FFG(X) FRIGATE.

In evaluating proposals for a contract to procure a FFG(X) frigate, the Secretary of the Navy shall ensure price is a critical evaluation factor set forth in the request for proposal (solicitation number N0002419R2300) for the procurement of the frigate.

SEC. 812. REPEAL OF CONTINUATION OF DATA RIGHTS DURING CHALLENGES.

(a) REPEAL.—Section 866 of the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Public Law 115–232; 132 Stat. 1901; 10 U.S.C. 2321) is repealed.

(b) RESTORATION OF AMENDED PROVISION.—Subsection (i) of section 2321 of title 10, United States Code, is amended to read as follows:

"(i) RIGHTS AND LIABILITY UPON FINAL DISPOSITION.—(1) If, upon final disposition, the contracting officer's challenge to the use or release restriction is sustained—

"(A) the restriction shall be cancelled; and

"(B) if the asserted restriction is found not to be substantially justified, the contractor or subcontractor asserting the restriction shall be liable to the United States for payment of the cost to the United States of reviewing the asserted restriction and the fees and other expenses (as defined in section 2412(d)(2)(A) of title 28) incurred by the United States in challenging the asserted restriction, unless special circumstances would make such payment unjust.

"(2) If, upon final disposition, the contracting officer's challenge to the use or release restriction is not sustained—

"(A) the United States shall continue to be bound by the restriction; and

"(B) the United States shall be liable for payment to the party asserting the restriction for fees and other expenses (as defined in section 2412(d)(2)(A) of title 28) incurred by the party asserting the restriction in defending the asserted re-

striction if the challenge by the United States is found not to be made in good faith.''.

SEC. 813. REPEAL OF AUTHORITY TO WAIVE ACQUISITION LAWS TO ACQUIRE VITAL NATIONAL SECURITY CAPABILITIES.

Section 806 of the National Defense Authorization Act for Fiscal Year 2016 (Public Law 114–92; 10 U.S.C. 2302 note) is repealed.

SEC. 814. REPEAL OF TRANSFER OF FUNDS RELATED TO COST OVERRUNS AND COST UNDERRUNS.

(a) IN GENERAL.—Section 828 of the National Defense Authorization Act for Fiscal Year 2016 (Public Law 114–92; 10 U.S.C. 2430 note) is repealed.

(b) CONFORMING AMENDMENT.—Section 825 of the National Defense Authorization Act for Fiscal Year 2018 (Public Law 115–91; 131 Stat. 1466) is amended—

(1) by repealing subsection (b); and

(2) by striking ''(a) IN GENERAL.—''.

Subtitle B—Amendments to General Contracting Authorities, Procedures, and Limitations

SEC. 821. MODIFICATIONS TO THE MIDDLE TIER OF ACQUISITION PROGRAMS.

(a) ACCESS TO TECHNICAL DATA, RECORDS, AND INFORMATION.—Section 804 of the National Defense Au-

1 thorization Act for Fiscal Year 2016 (Public Law 114–
2 92; 10 U.S.C. 2302 note) is amended by adding at the
3 end the following new subsection:

4 ''(e) ACCESS TO TECHNICAL DATA, RECORDS, AND
5 INFORMATION.—The Secretary of Defense shall develop a
6 process to provide the Director of Operational Test and
7 Evaluation, the Director of Cost Assessment and Program
8 Evaluation, and the Under Secretary of Defense for Re-
9 search and Engineering access to all technical data,
10 records, and information necessary to evaluate the techno-
11 logical maturity, operational effectiveness, and operational
12 suitability of products and technologies proposed to be ac-
13 quired under the guidance required by subsection (a).''.

14 (b) DOLLAR THRESHOLD FOR ACQUISITION PRO-
15 GRAMS.—Subsection (a) of such section is amended—

16 (1) by striking ''Not later than'' and inserting
17 the following:

18 ''(1) IN GENERAL.—Not later than'';

19 (2) in paragraph (1), as so designated, by strik-
20 ing ''acquisition programs that are intended to be
21 completed in a period of two to five years.'' and in-
22 serting the following: ''acquisition programs—

23 ''(A) with an eventual total expenditure for
24 research, development, test, and evaluation or
25 an eventual total expenditure for procurement

that is less than those expenditures described in section 2430(a)(1)(B) of this title; and

''(B) that are intended to be completed in a period of two to five years.''; and

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

''(2) WAIVER.—The Secretary of Defense may waive the requirements of subparagraph (A) of paragraph (1), and may not delegate the authority to make such a waiver.''.

SEC. 822. BRIEFING RELATING TO THE "MIDDLE TIER" OF ACQUISITION PROGRAMS.

(a) IN GENERAL.—Not later than December 1, 2019, the Secretary of Defense shall provide a briefing to the congressional defense committees on lessons learned and best practices identified through the use of the ''middle tier'' of acquisition programs described under section 804 of the National Defense Authorization Act for Fiscal Year 2016 (Public Law 114–92; 10 U.S.C. 2302 note). The briefing shall be accompanied by a written analysis—

(1) identifying which lessons learned can be applied to—

(A) ''middle tier'' acquisition programs; and

(B) any major defense acquisition program (as defined under section 2430 of title 10, United States Code);

(2) describing the extent to which covered risk should be a factor in determining which acquisition authority to use, including—

(A) an acquisition pathway as described under subsection (b) of section 804 of the National Defense Authorization Act for Fiscal Year 2016 (Public Law 114–92; 10 U.S.C. 2302 note);

(B) the authority described under section 2371b of title 10, United States Code;

(C) acquisition authority relating to urgent operational needs;

(D) a traditional acquisition process; or

(E) any other acquisition authority, as determined by the Secretary;

(3) describing whether any requirements applicable to major defense acquisition programs should be applicable to ''middle tier'' acquisition programs under such section; and

(4) recommending amendments or revisions (as applicable) to law or regulation, and including available data to support such recommendations.

(b) COVERED RISK DEFINED.—In this section, the term ''covered risk'' shall have the meaning given by the Secretary of Defense, and shall include a consideration of cost, schedule, performance, risk to operational success.

SEC. 823. RATES FOR PROGRESS PAYMENTS OR PERFORMANCE-BASED PAYMENTS.

(a) CONSISTENCY IN ESTABLISHMENT OF RATES FOR PROGRESS PAYMENTS OR PERFORMANCE-BASED PAYMENTS.—Section 2307(a) of title 10, United States Code, is amended by inserting the following new paragraph:

''(3) Except as provided in subsection (g), the Secretary of Defense shall not establish a rate for progress payments or a rate for performance-based payments that is lower than the rate for progress payments or a rate for performance-based payments, as applicable, established by another head of an agency.''.

(b) PAYMENT AUTHORITY.—Section 2307(a)(1) of title 10, United States Code, is amended in the matter preceding subparagraph (A) by striking ''The head of any agency may'' and inserting ''The head of an agency may—''.

(c) NOTICE OF REVISION TO RATES FOR PROGRESS PAYMENTS OR PERFORMANCE-BASED PAYMENTS.—

(1) TO CONGRESS.—The Secretary of Defense may not issue rules to revise the rate for progress payments or the rate for performance-based payments unless the Secretary provides the congressional defense committees with a notice of determination of need for such revision. This notice shall include—

(A) a justification, including the data and analysis supporting the justification, for the revision; and

(B) an assessment of how the revision will create a more effective acquisition process and benefit the defense industrial base.

(2) PUBLICATION.—The Secretary shall publish the notice required by paragraph (1) in the Federal Register not later than five business days after providing such notice to the congressional defense committees.

SEC. 824. ADDITIONAL REQUIREMENTS FOR NEGOTIATIONS FOR NONCOMMERCIAL COMPUTER SOFTWARE.

Section 2322a of title 10, United States Code, is amended by adding at the end the following new subsections:

1 ''(c) RIGHTS TO NONCOMMERCIAL COMPUTER SOFT-
2 WARE.—As part of any negotiation for the acquisition of
3 noncommercial computer software, the Secretary of De-
4 fense may not require a contractor to sell or otherwise re-
5 linquish to the Federal Government any rights to non-
6 commercial computer software developed exclusively at
7 private expense, except for rights related to—
8 ''(1) corrections or changes to such software or
9 related materials for such software furnished to the
10 contractor by the Department of Defense;
11 ''(2) such software or related materials for such
12 software that is otherwise publicly available or that
13 has been released or disclosed by the contractor or
14 subcontractor without restrictions on further use, re-
15 lease, or disclosure, other than a release or disclo-
16 sure resulting from the sale, transfer, or other as-
17 signment of interest in such software or related ma-
18 terials to another party;
19 ''(3) such software or related materials for such
20 software obtained with unlimited rights under an-
21 other contract with the Federal Government or as a
22 result of such a negotiation; or
23 ''(4) such software or related materials for such
24 software furnished to the Department of Defense
25 under a contract or subcontract that includes—

"(A) restricted rights in such software, limited rights in technical data, or government purpose rights, where such restricted rights, limited rights, or government purpose rights have expired; or

"(B) government purpose rights, where the contractor's exclusive right to use such software or related materials for commercial purposes has expired.

"(d) CONSIDERATION OF SPECIALLY NEGOTIATED LICENSES.—The Secretary of Defense shall, to the maximum extent practicable, negotiate and enter into a contract with a contractor for a specially negotiated license for noncommercial computer software or related materials for such software necessary to support the product support strategy of a major weapon system or subsystem of a major weapon system.".

SEC. 825. RESPONSIBILITY FOR DATA ANALYSIS AND REQUIREMENTS VALIDATION FOR SERVICES CONTRACTS.

Section 2329 of title 10, United States Code, is amended—

(1) in subsection (a), by inserting ", acting through the Under Secretary of Defense (Comp-

troller) and Director of Cost Assessment and Program Evaluation,'' after ''Secretary of Defense'';

(2) in subsection (b), in the matter preceding paragraph (1), by inserting '', acting through the Under Secretary of Defense (Comptroller) and Director of Cost Assessment and Program Evaluation,'' after ''Secretary of Defense''; and

(3) in subsection (c)(2)(A), by inserting '', acting through the Under Secretary of Defense (Comptroller) and Director of Cost Assessment and Program Evaluation,'' after ''Secretary of Defense''.

SEC. 826. ANNUAL REPORTS ON AUTHORITY TO CARRY OUT CERTAIN PROTOTYPE PROJECTS.

(a) IN GENERAL.—Section 2371b of title 10, United States Code, is amended by adding at the end the following new subsections:

''(i) DATA COLLECTION AND USE.—(1) The service acquisition executive of each military department shall collect data on the use of the authority under this section by the applicable military department, and the Under Secretary of Defense for Research and Engineering and the Under Secretary of Defense for Acquisition and Sustainment shall collect data on all other use of such authority by the Department of Defense, including use by the Defense Agencies.

1 ''(2) The Under Secretary of Defense for Acquisition
2 and Sustainment shall—
3 ''(A) maintain a database of information col-
4 lected under this section, which shall be made acces-
5 sible to any official designated by the Secretary of
6 Defense; and
7 ''(B) analyze such information to update policy
8 and guidance related to the use of the authority
9 under this section.
10 ''(j) REPORT.—(1) Not later than December 31,
11 2019, and each December 31 thereafter the Secretary of
12 Defense shall annually submit to the congressional defense
13 committees a report covering the preceding fiscal year on
14 the use of the authority under this section. Each report
15 shall summarize the data collected under subsection (i) on
16 the nature and extent of each such use of the authority,
17 including a description—
18 ''(A) of the participants to an agreement en-
19 tered into pursuant to the authority of subsection
20 (a) or a follow-on contract or transaction entered
21 into pursuant to the authority of subsection (f);
22 ''(B) of the quantity of prototype projects to be
23 produced pursuant to such an agreement, follow-on
24 contract, or transaction;

"(C) of the amount of payments made pursuant to each such agreement, follow-on contract, or transaction;

"(D) of the purpose, description, and status of prototype projects carried out pursuant to each such agreement, follow-on contract, or transaction; and

"(E) including case examples, of the successes and challenges with using the authority of subsection (a) or (f).

"(2) A report required under this subsection shall be submitted in unclassified form without any designation relating to dissemination control, but may contain a classified annex.".

(b) CONFORMING AMENDMENT.—Section 873 of the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Public Law 115–232; 132 Stat. 1905; 10 U.S.C. 2371 note) is repealed.

SEC. 827. COMPETITION REQUIREMENTS FOR PURCHASES FROM FEDERAL PRISON INDUSTRIES.

(a) COMPETITION REQUIREMENTS FOR PURCHASES FROM FEDERAL PRISON INDUSTRIES.—Subsections (a) and (b) of section 2410n of title 10, United States Code, are amended to read as follows:

"(a) MARKET RESEARCH.—Before purchasing a product listed in the latest edition of the Federal Prison

Industries catalog published under section 4124(d) of title 18, the Secretary of Defense shall conduct market research to determine whether such product—

"(1) is comparable to products available from the private sector; and

"(2) best meets the needs of the Department of Defense in terms of price, quality, and time of delivery.

"(b) COMPETITION REQUIREMENT.—If the Secretary determines that a Federal Prison Industries product is not comparable to products available from the private sector and does not best meet the needs of the Department of Defense in terms of price, quality, or time of delivery, the Secretary shall use competitive procedures or make an individual purchase under a multiple award contract for the procurement of the product. In conducting such a competition or making such a purchase, the Secretary shall consider a timely offer from Federal Prison Industries.".

(b) EFFECTIVE DATE.—The amendment made by subsection (a) shall take effect 60 days after the date of the enactment of this Act.

SEC. 828. ENHANCED POST-AWARD DEBRIEFING RIGHTS.

Section 818(a)(1) of the National Defense Authorization Act for Fiscal Year 2018 (Public Law 115–91; 131 Stat. 1463; 10 U.S.C. 2305 note) is amended by striking

"$100,000,000" each place it appears and inserting "$50,000,000".

SEC. 829. STANDARDIZING DATA COLLECTION AND REPORTING ON USE OF SOURCE SELECTION PROCEDURES BY FEDERAL AGENCIES.

(a) REPEAL OF GOVERNMENT ACCOUNTABILITY OFFICE REPORTING REQUIREMENTS ON USE OF LOWEST PRICE TECHNICALLY ACCEPTABLE SOURCE SELECTION CRITERIA.—

(1) DEPARTMENT OF DEFENSE.—Section 813 of the National Defense Authorization Act for Fiscal Year 2017 (10 U.S.C. 2305 note) is amended by striking subsection (d).

(2) OTHER AGENCIES.—Section 880 of the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Public Law 115–232; 132 Stat. 1910; 41 U.S.C. 3701 note) is amended by striking subsection (d) and redesignating subsection (e) as subsection (d).

(b) REVISION TO THE FEDERAL PROCUREMENT DATA SYSTEM.—Not later than 180 days after the date of the enactment of this Act, the Administrator of General Services, in coordination with the Administrator for Federal Procurement Policy, shall direct appropriate revisions to the Federal procurement data system established pur-

suant to section 1122(a)(4) of title 41, United States Code (or any successor system), to facilitate the collection of complete, timely, and reliable data on the source selection processes used by Federal agencies for the contract actions being reported in the system. The Administrator of General Services shall ensure that data is collected—

(1) at a minimum, on the usage of the lowest price technically acceptable contracting methods and best value contracting methods process; and

(2) on all applicable contracting actions, including task orders or delivery orders issued under indefinite delivery-indefinite quantity contracts.

SEC. 830. MODIFICATION OF JUSTIFICATION AND APPROVAL REQUIREMENT FOR CERTAIN DEPARTMENT OF DEFENSE CONTRACTS.

(a) MODIFICATION OF JUSTIFICATION AND APPROVAL REQUIREMENT.—Notwithstanding section 811 of the National Defense Authorization Act for Fiscal Year 2010 (Public Law 111–84; 123 Stat. 2405)—

(1) no justification and approval is required under such section for a sole-source contract awarded by the Department of Defense in a covered procurement for an amount not exceeding $100,000,000; and

(2) for purposes of subsections (a)(2) and (c)(3)(A) of such section, the appropriate official designated to approve the justification for a sole-source contract awarded by the Department of Defense in a covered procurement exceeding $100,000,000 is the official designated in section 2304(f)(1)(B)(ii) of title 10, United States Code.

(b) GUIDANCE.—Not later than 90 days after the date of the enactment of this Act, the Secretary of Defense shall issue guidance to implement the authority under subsection (a).

(c) COMPTROLLER GENERAL REVIEW.—

(1) DATA TRACKING AND COLLECTION.—The Department of Defense shall track the use of the authority provided pursuant to subsection (a) and make the data available to the Comptroller General for purposes of the report required under paragraph (2).

(2) REPORT.—Not later than February 1, 2022, the Comptroller General of the United States shall submit a report to the congressional defense committees on the use of the authority provided pursuant to subsection (a) through the end of fiscal year 2021.

Subtitle C—Provisions Relating to Acquisition Workforce

SEC. 841. DEFENSE ACQUISITION WORKFORCE CERTIFICATION AND EDUCATION REQUIREMENTS.

(a) PROFESSIONAL CERTIFICATION REQUIREMENT.—

(1) PROFESSIONAL CERTIFICATION REQUIRED FOR ALL ACQUISITION WORKFORCE PERSONNEL.—Section 1701a of title 10, United States Code, is amended—

(A) by redesignating subsections (c) and (d) as subsections (d) and (e), respectively; and

(B) by inserting after subsection (b) the following new subsection:

"(c) PROFESSIONAL CERTIFICATION.—(1) IN GENERAL.—The Secretary of Defense shall implement a certification program to provide for a professional certification requirement for all members of the acquisition workforce. Except as provided in paragraph (2), the certification requirement for any career field of the acquisition workforce shall be based on nationally or internationally recognized standards developed by a third-party entity.

"(2) REQUIREMENTS FOR SECRETARY.—If the Secretary determines that, for a particular acquisition work-

force career field, the third-party entity described in paragraph (1) does not meet the needs of the Department, the Secretary shall establish the professional certification requirement for that career field that conforms with nationally or internationally recognized standards. The Secretary shall determine the best approach to implement such requirement for that career field, including implementation through entities outside the Department of Defense and may be designed and implemented without regard to section 1746 of this title.''.

(2) CERTIFICATION RENEWAL.—Paragraph (3) of section 1723(a) of such title is amended by striking the second sentence.

(3) PARTICIPATION IN PROFESSIONAL ASSOCIATIONS.—Section 1701a(b) of such title is amended—

(A) by redesignating paragraphs (6), (7), (8), and (9) as paragraphs (7), (8), (9), and (10), respectively; and

(B) by inserting after paragraph (5) the following new paragraph:

''(6) authorize a member of the acquisition workforce to participate in professional associations, consistent with the performance plan of such member, if such participation provides the member with

the opportunity to gain leadership and management skills;''.

(4) EFFECTIVE DATE.—The Secretary of Defense shall carry out the certification program required by subsection (c) of section 1701a of title 10, United States Code, as added by paragraph (1), not later than 180 days after the date of the enactment of this Act.

(b) ELIMINATION OF STATUTORY REQUIREMENT FOR COMPLETION OF 24 SEMESTER CREDIT HOURS.—

(1) QUALIFICATION REQUIREMENTS FOR CONTRACTING OFFICERS.—Section 1724 of title 10, United States Code, is amended—

(A) in subsection (a)(3)—

(i) by striking ''(A)'' after ''(3)''; and

(ii) by striking '', and (B)'' and all that follows through ''and management'';

(B) in subsection (b), by striking ''requirements'' in the first sentences of paragraphs (1) and (2) and inserting ''requirement'';

(C) in subsection (e)—

(i) in paragraph (1)—

(I) by striking ''requirements in subparagraphs (A) and (B) of sub-

section (a)(3)'' and inserting ''requirement of subsection (a)(3)''; and

(II) in subparagraph (C), by striking ''requirements'' and inserting ''requirement''; and

(ii) in paragraph (2)—

(I) by striking ''shall have—'' and all that follows through ''been awarded'' and inserting ''shall have been awarded'';

(II) by striking ''; or'' and inserting a period; and

(III) by striking subparagraph (B); and

(D) in subsection (f), by striking '', including—'' and all that follows and inserting a period.

(2) SELECTION CRITERIA AND PROCEDURES.—Section 1732 of such title is amended—

(A) in subsection (b)(1)—

(i) by striking ''Such requirements,'' and all the follows through ''the person—'' and inserting ''Such requirements shall include a requirement that the person—'';

(ii) by striking subparagraph (B); and

(iii) by redesignating clauses (i) and (ii) as subparagraphs (A) and (B), respectively, and conforming the margins accordingly;

(B) in subsection (c), by striking ''requirements of subsections (b)(1)(A) and (b)(1)(B)'' in paragraphs (1) and (2) and inserting ''requirement of subsection (b)(1)''; and

(C) in subsection (d)—

(i) by striking ''(1) Except as provided in paragraph (2),''; and

(ii) by striking paragraph (2).

(c) DEFENSE ACQUISITION UNIVERSITY CURRICULUM DEVELOPMENT.—Section 1746(c) of title 10, United States Code, is amended by inserting '', and with commercial providers of training,'' after ''military departments''.

(d) CAREER PATHS.—

(1) CAREER PATH REQUIRED FOR EACH ACQUISITION WORKFORCE CAREER FIELD.—Paragraph (4) of section 1701a(b) of title 10, United States Code, is amended to read as follows:

''(4) develop and implement a career path, as described in section 1722(a) of this title, for each career field designated by the Secretary under sec-

tion 1721(a) of this title as an acquisition workforce career field;''.

(2) CONFORMING AMENDMENTS.—Section 1722(a) of such title is amended—

(A) by striking ''appropriate career paths'' and inserting ''an appropriate career path''; and

(B) by striking ''are identified'' and inserting ''is identified for each acquisition workforce career field''.

(3) DEADLINE FOR IMPLEMENTATION OF CAREER PATHS.—The Secretary of Defense shall carry out the requirements of paragraph (4) of section 1701a(b) of title 10, United States Code (as amended by paragraph (1)), not later than the end of the two-year period beginning on the date of the enactment of this Act.

(e) CAREER FIELDS.—

(1) DESIGNATION OF ACQUISITION WORKFORCE CAREER FIELDS.—Section 1721(a) of such title is amended by adding at the end the following new sentence: ''The Secretary shall also designate in regulations those career fields in the Department of Defense that are acquisition workforce career fields for purposes of this chapter.''.

(2) CLERICAL AMENDMENTS.—(A) The heading of such section is amended to read as follows:

"§ 1721. Designation of acquisition positions and acquisition workforce career fields".

(B) The item relating to such section in the table of sections at the beginning of subchapter II of chapter 87 of such title is amended to read as follows:

"1721. Designation of acquisition positions and acquisition workforce career fields.".

(3)(A) The heading of subchapter II of chapter 87 of such title is amended to read as follows:

"SUBCHAPTER II—ACQUISITION POSITIONS AND ACQUISITION WORKFORCE CAREER FIELDS".

(B) The item relating to such subchapter in the table of subchapters at the beginning of such chapter is amended to read as follows:

"II. Acquisition Positions And Acquisition Workforce Career Fields ..... 1721".

(4) DEADLINE FOR DESIGNATION OF CAREER FIELDS.—The Secretary of Defense shall carry out the requirements of second sentence of section 1721(a) of title 10, United States Code (as added by paragraph (1)), not later than the end of the six-month period beginning on the date of the enactment of this Act.

(f) KEY WORK EXPERIENCES.—

(1) DEVELOPMENT OF KEY WORK EXPERIENCES FOR EACH ACQUISITION WORKFORCE CAREER FIELD.—Section 1722b of such title is amended by adding at the end the following new subsection:

''(c) KEY WORK EXPERIENCES.—In carrying out subsection (b)(2), the Secretary shall ensure that key work experiences, in the form of multidiscipline training, are developed for each acquisition workforce career field.''.

(2) PLAN FOR IMPLEMENTATION OF KEY WORK EXPERIENCES.—Not later than one year after the date of the enactment of this Act, the Secretary of Defense shall submit to the congressional defense committees a plan identifying the specific actions the Department of Defense has taken, and is planning to take, to develop and establish key work experiences for each acquisition workforce career field as required by subsection (c) of section 1722b of title 10, United States Code, as added by paragraph (1). The plan shall include specification of the percentage of the acquisition workforce, or funds available for administration of the acquisition workforce on an annual basis, that the Secretary will dedicate towards developing such key work experiences.

(g) APPLICABILITY OF CAREER PATH REQUIREMENTS TO ALL MEMBERS OF ACQUISITION WORK-

FORCE.—Section 1723(b) of such title is amended by striking ''the critical acquisition-related''.

(h) COMPETENCY DEVELOPMENT.—

(1) IN GENERAL.—(A) Subchapter V of chapter 87 of such title is amended by adding at the end the following new section:

"§ 1765. Competency development

''(a) IN GENERAL.—For each acquisition workforce career field, the Secretary of Defense shall establish, for the civilian personnel in that career field, defined proficiency standards and technical and nontechnical competencies which shall be used in personnel qualification assessments.

''(b) NEGOTIATIONS.—Any action taken by the Secretary under this section, or to implement this section, shall not be subject to the requirements of chapter 71 of title 5.''.

(B) The table of sections at the beginning of such subchapter II is amended by adding at the end the following new item:

''1765. Competency development.''.

(2) DEADLINE FOR IMPLEMENTATION.—The Secretary of Defense shall carry out the requirements of section 1765 of title 10, United States Code (as added by paragraph (1)), not later than

the end of the two-year period beginning on the date of the enactment of this Act.

(i) TERMINATION OF DEFENSE ACQUISITION CORPS.—

(1) The Acquisition Corps for the Department of Defense referred to in section 1731(a) of title 10, United States Code, is terminated.

(2) Section 1733 of title 10, United States Code, is amended—

(A) by striking subsection (a); and

(B) by redesignating subsection (b) as subsection (a).

(3) Subsection (b) of section 1731 of such title is transferred to the end of section 1733 of such title, as amended by paragraph (2), and amended—

(A) by striking ''ACQUISITION CORPS'' in the heading and inserting ''THE ACQUISITION WORKFORCE''; and

(B) by striking ''selected for the Acquisition Corps'' and inserting ''in the acquisition workforce''.

(4) Subsection (e) of section 1732 of such title is transferred to the end of section 1733 of such title, as amended by paragraphs (2) and (3), redesignated as subsection (c), and amended—

(A) by striking ''in the Acquisition Corps'' in paragraphs (1) and (2) and inserting ''in critical acquisition positions''; and

(B) by striking ''serving in the Corps'' in paragraph (2) and inserting ''employment''.

(5) Sections 1731 and 1732 of such title are repealed.

(6)(A) Section 1733 of such title, as amended by paragraphs (2), (3), and (4), is redesignated as section 1731.

(B) The table of sections at the beginning of subchapter III of chapter 87 of such title is amended by striking the items relating to sections 1731, 1732, and 1733 and inserting the following new item:

''1731. Critical acquisition positions.''.

(7)(A) The heading of subchapter III of chapter 87 of such title is amended to read as follows:

''SUBCHAPTER III—CRITICAL ACQUISITION POSITIONS''.

(B) The item relating to such subchapter in the table of subchapters at the beginning of such chapter is amended to read as follows:

''III. Critical Acquisition Positions ..... 1731''.

(8) Section 1723(a)(2) of such title is amended by striking ''section 1733 of this title'' and inserting ''section 1731 of this title''.

(9) Section 1725 of such title is amended—

(A) in subsection (a)(1), by striking ''Defense Acquisition Corps'' and inserting ''acquisition workforce''; and

(B) in subsection (d)(2), by striking ''of the Defense Acquisition Corps'' and inserting ''in the acquisition workforce serving in critical acquisition positions''.

(10) Section 1734 of such title is amended—

(A) by striking ''of the Acquisition Corps'' in subsections (e)(1) and (h) and inserting ''of the acquisition workforce''; and

(B) in subsection (g)—

(i) by striking ''of the Acquisition Corps'' in the first sentence and inserting ''of the acquisition workforce'';

(ii) by striking ''of the Corps'' and inserting ''of the acquisition workforce''; and

(iii) by striking ''of the Acquisition Corps'' in the second sentence and inserting ''of the acquisition workforce in critical acquisition positions''.

(11) Section 1737 of such title is amended—

(A) in subsection (a)(1), by striking ''of the Acquisition Corps'' and inserting ''of the acquisition workforce''; and

(B) in subsection (b), by striking ''of the Corps'' and inserting ''of the acquisition workforce''.

(12) Section 1742(a)(1) of such title is amended by striking ''the Acquisition Corps'' and inserting ''acquisition positions in the Department of Defense''.

(13) Section 2228(a)(4) of such title is amended by striking ''under section 1733(b)(1)(C) of this title'' and inserting ''under section 1731 of this title''.

(14) Section 7016(b)(5)(B) of such title is amended by striking ''under section 1733 of this title'' and inserting ''under section 1731 of this title''.

(15) Section 8016(b)(4)(B) of such title is amended by striking ''under section 1733 of this title'' and inserting ''under section 1731 of this title''.

(16) Section 9016(b)(4)(B) of such title is amended by striking ''under section 1733 of this

title'' and inserting ''under section 1731 of this title''.

(17) Paragraph (1) of section 317 of title 37, United States Code, is amended to read as follows:

''(1) is a member of the acquisition workforce selected to serve in, or serving in, a critical acquisition position designated under section 1731 of title 10.''.

(j) DESIGNATION OF FOREIGN MILITARY SALES AS ACQUISITION POSITION.—Section 1721(b) of title 10, United States Code, is amended by adding at the end the following new paragraph:

''(13) Foreign military sales.''.

SEC. 842. PUBLIC-PRIVATE EXCHANGE PROGRAM FOR THE ACQUISITION WORKFORCE.

(a) PUBLIC-PRIVATE EXCHANGE PROGRAM FOR THE ACQUISITION WORKFORCE.—

(1) IN GENERAL.—Subchapter IV of chapter 87 of title 10, United States Code, is amended by adding at the end the following new section:

''§ 1749. Public-private exchange program for the acquisition workforce

''(a) ASSIGNMENT AUTHORITY.—(1) The Secretary may, by rule, establish a program to be known as the 'Public-Private Exchange Program for the Acquisition

Workforce' to temporarily assign a member of the acquisition workforce to a private-sector organization or an employee of a private-sector organization to the Department of Defense if—

"(A) pursuant to an agreement between the Secretary, the private-sector organization, and the individual to be temporarily assigned described in subsection (b); and

"(B) with the consent of the individual to be temporarily assigned.

"(2) Members of the acquisition workforce are eligible for a temporary assignment under this section as follows:

"(A) Civilians in any of grades GS–12 through GS–15 under the General Schedule or, for employees participating in the demonstration project under section 1762 of this title, the equivalent.

"(B) Members of the armed forces serving in any of pay grades O–3 through O–6.

"(3) A private-sector organization shall not be considered to have a conflict of interest with the Department of Defense solely because of participation in the program established under this section.

"(b) AGREEMENTS.—(1) An agreement entered into under this section shall include the following:

"(A) The terms and conditions of a temporary assignment.

"(B) In the case of an agreement for the temporary assignment of a member of the acquisition workforce, a requirement that the member of the acquisition workforce, upon completion of the temporary assignment, will—

"(i) if a member of the armed forces, serve in the armed forces for a period equal to twice the length of the temporary assignment (in addition to any other period of obligated service); or

"(ii) if a civilian, serve in the Department of Defense, or elsewhere in the civil service if approved by the Secretary, for a period equal to twice the length of the temporary assignment.

"(C) A provision that if the individual to be temporarily assigned fails to carry out the agreement, such individual shall be liable to the United States for payment of all expenses of the assignment, unless that failure was for good and sufficient reason, as determined by the Secretary of Defense.

"(D) In the case of an agreement for the temporary assignment of a member of the acquisition workforce, language ensuring that such member of

the acquisition workforce does not improperly use pre-decisional or draft deliberative information that such member may be privy to or aware of related to Department programing, budgeting, resourcing, acquisition, or procurement for the benefit or advantage of the private-sector organization.

''(2) An amount for which an individual is liable under paragraph (1)(C) shall be treated as a debt due the United States.

''(3) The Secretary may waive, in whole or in part, collection of a debt described in paragraph (2) based on a determination that the collection would be against equity and good conscience and not in the best interests of the United States, after taking into account any indication of fraud, misrepresentation, fault, or lack of good faith on the part of the individual who is liable for the debt.

''(c) TERMINATION.—An assignment under this section may, at any time and for any reason, be terminated by the Department of Defense or the private-sector organization concerned.

''(d) DURATION.—(1) Except as provided in paragraph (2), an assignment under this section shall be for a period of not more than two years, renewable up to a total of four years.

1 ''(2) An assignment under this section may be for a
2 period in excess of two years, but not more than four
3 years, if the Secretary determines that such assignment
4 is necessary to meet critical mission or program require-
5 ments.

6 ''(3) A member of the acquisition workforce may not
7 be assigned under this section for more than a total of
8 four years inclusive of all such assignments.

9 ''(e) STATUS OF INDIVIDUALS ASSIGNED TO PRI-
10 VATE-SECTOR ORGANIZATIONS.—(1) A member of the ac-
11 quisition workforce who is assigned to a private-sector or-
12 ganization under this section shall be considered, during
13 the period of assignment, to be on detail to a regular duty
14 or work assignment, as applicable, in the Department for
15 all purposes.

16 ''(2) In the case of a civilian member of the acquisi-
17 tion workforce, the written agreement established under
18 subsection (b)(1)—

19 ''(A) shall address the specific terms and condi-
20 tions related to the civilian member's continued sta-
21 tus as a Federal employee; and

22 ''(B) in the case of an assignment of nine
23 months or longer, shall provide that, if the civilian
24 member successfully completes the assignment (as
25 determined by the Secretary), the civilian member

shall be eligible for consideration for placement in a new position under programs of the Department of Defense providing priority placement to certain employees.

''(3) With respect to an assignment of a member of the acquisition workforce under this section, the Secretary—

''(A) may, in the case of a civilian member of the acquisition workforce, provide for the performance, during the member's absence, of the normal duties and functions of that member by making a temporary or term appointment under general civil service authorities for such appointments;

''(B) shall ensure that the normal duties and functions of the civilian member of the acquisition workforce described in subparagraph (A) can be reasonably performed by other personnel of the Department of Defense without the permanent transfer or permanent reassignment of other personnel of the Department of Defense, including members of the armed forces;

''(C) shall ensure that the normal duties and functions of the acquisition workforce member are not, as a result of and during the course of such temporary assignment, performed or augmented by

contractor personnel in violation of the provisions of section 2461 of this title; and

''(D) shall certify that the temporary assignment of the acquisition workforce member will not have an adverse or negative impact on mission attainment, warfighter support, or organizational capabilities associated with the assignment.

''(f) TERMS AND CONDITIONS FOR PRIVATE-SECTOR EMPLOYEES.—An employee of a private-sector organization who is assigned to a Department of Defense organization under this section—

''(1) shall continue to receive pay and benefits from the private-sector organization from which such employee is assigned and shall not receive pay or benefits from the Department of Defense, except as provided in paragraph (2);

''(2) is deemed to be an employee of the Department of Defense for the purposes of—

''(A) chapters 73 and 81 of title 5;

''(B) sections 201, 203, 205, 207, 208, 209, 603, 606, 607, 643, 654, 1905, and 1913 of title 18;

''(C) sections 1343, 1344, and 1349(b) of title 31;

"(D) the Federal Tort Claims Act and any other Federal tort liability statute;

"(E) the Ethics in Government Act of 1978; and

"(F) chapter 21 of title 41;

"(3) shall not have access to any trade secrets or to any other nonpublic information which is of commercial value to the private-sector organization from which such employee is assigned;

"(4) may perform work that is considered inherently governmental in nature only when requested in writing by the Secretary of Defense; and

"(5) may not be used to circumvent the provision of section 2461 of this title nor to circumvent any limitation or restriction on the size of the Department's workforce.

"(g) PROHIBITION AGAINST CHARGING CERTAIN COSTS TO THE FEDERAL GOVERNMENT.—A private-sector organization may not charge the Department or any other agency of the Federal Government, as direct or indirect costs under a Federal contract, the costs of pay or benefits paid by the organization to an employee assigned to a Department organization under this section for the period of the assignment.

"(h) CONSIDERATION OF TRAINING NEEDS FOR MEMBERS OF THE ACQUISITION WORKFORCE.—In carrying out this section, the Secretary of Defense shall take into consideration how assignments under this section might best be used to help meet the needs of the Department of Defense with respect to the training of members of the acquisition workforce.

"(i) FUNDING; USE OF DEFENSE ACQUISITION WORKFORCE DEVELOPMENT FUND.—Funds for the expenses for the program established under this section shall be provided from amounts in the Department of Defense Acquisition Workforce Development Fund. Expenses for the program include—

"(1) notwithstanding section 1705(e)(5) of this title, the base salary of a civilian member of the acquisition workforce assigned to a private-sector organization under this section, during the period of that assignment;

"(2) expenses relating to assignment under this section of a member of the acquisition workforce away from the member's regular duty station, including expenses for travel, per diem, and lodging; and

"(3) expenses for the administration of the program.".

(2) CLERICAL AMENDMENT.—The table of sections at the beginning of such subchapter is amended by adding at the end the following new item:

"1749. Public-private exchange program for the acquisition workforce.".

(b) USE OF DEFENSE ACQUISITION WORKFORCE DEVELOPMENT FUND.—Section 1705(e)(1) of such title is amended by adding at the end the following new subparagraph:

"(C) Amounts in the Fund shall be used to pay the expenses of the Public-Private Exchange Program for the Acquisition Workforce under section 1749 of this title.".

(c) ACQUISITION WORKFORCE EMPLOYEES EXCLUDED FROM PUBLIC-PRIVATE TALENT EXCHANGE.—

(1) IN GENERAL.—Section 1599g of such title is amended by adding at the end the following new subsection:

"(i) ACQUISITION WORKFORCE EMPLOYEES.—An employee of the Department of Defense who is eligible for the Public-Private Exchange Program for the Acquisition Workforce under section 1749 of this title is not eligible for an assignment under this section.".

(2) APPLICABILITY.—Subsection (i) of section 1599g of title 10, United States Code, as added by

paragraph (1), shall not apply to an employee of the Department of Defense who entered into an agreement under that section before the date of the enactment of this Act.

SEC. 843. INCENTIVES AND CONSIDERATION FOR QUALIFIED TRAINING PROGRAMS.

(a) IN GENERAL.—

(1) Chapter 141 of title 10, United States Code, is amended by inserting after section 2409 the following new section:

"§ 2409a. Incentives and consideration for qualified training programs

''(a) INCENTIVES.—The Secretary of Defense shall develop workforce development investment incentives for a contractor that implements a qualified training program to develop the workforce of the contractor in a manner consistent with the needs of the Department of Defense.

''(b) CONSIDERATION OF QUALIFIED TRAINING PROGRAMS.—The Secretary of Defense shall revise the Department of Defense Supplement to the Federal Acquisition Regulation to require that the system used by the Federal Government to monitor or record contractor past performance includes an analysis of the availability, quality, and effectiveness of a qualified training program of

1 an offeror as part of the past performance rating of such
2 offeror.

3 ''(c) QUALIFIED TRAINING PROGRAM DEFINED.—
4 The term 'qualified training program' means any of the
5 following:

6 ''(1) A program eligible to receive funds under
7 the Workforce Innovation and Opportunity Act (29
8 U.S.C. 3101 et seq.).

9 ''(2) A program eligible to receive funds under
10 the Carl D. Perkins Career and Technical Education
11 Act of 2006 (20 U.S.C. 2301 et seq.).

12 ''(3) A program registered under the Act of Au-
13 gust 16, 1937 (commonly known as the 'National
14 Apprenticeship Act'; Stat. 664, chapter 663; 29
15 U.S.C. 50 et seq.).

16 ''(4) Any other program determined to be a
17 qualified training program for purposes of this sec-
18 tion, and that meets the workforce needs of the De-
19 partment of Defense, as determined by the Secretary
20 of Defense.''.

21 (2) CLERICAL AMENDMENT.—The table of sec-
22 tions at the beginning of such chapter is amended
23 by inserting after the item relating to section 2409
24 the following new item:

''2409a. Incentives and consideration for qualified training programs.''.

SEC. 844. CERTIFICATION BY PROSPECTIVE MILITARY CONSTRUCTION CONTRACTORS OF GOOD FAITH EFFORT TO UTILIZE QUALIFIED APPRENTICES.

(a) REQUIREMENTS.—Subchapter III of chapter 169 of title 10, United States Code, is amended by adding at the end the following new section:

"§ 2870. Utilization of qualified apprentices by military construction contractors

"(a) CERTIFICATION REQUIRED.—(1) The Secretary of Defense shall require each prospective contractor on a military construction project to certify to the Secretary that, if awarded a contract for the project, the prospective contractor will make a good faith effort to meet or exceed the apprenticeship employment goal on such project.

"(2) If a prospective contractor fails to certify as required by paragraph (1), the Secretary may not determine such prospective contractor to be a responsible contractor.

"(b) APPRENTICESHIP EMPLOYMENT GOAL.—

"(1) IN GENERAL.—In this section, the term 'apprenticeship employment goal' means the utilization of qualified apprentices as not less than 20 percent of the total workforce employed in an apprenticeable occupation (as determined by the Secretary of Labor).

"(2) QUALIFIED APPRENTICE.—In paragraph (1), the term 'qualified apprentice' means an employee participating in an apprenticeship program that is registered with—

"(A) the Office of Apprenticeship of the Employment Training Administration of the Department of Labor pursuant to the Act of August 16, 1937 (popularly known as the 'National Apprenticeship Act'; 29 U.S.C. 50 et seq.); or

"(B) a State apprenticeship agency recognized by such Office of Apprenticeship pursuant to such Act.

"(c) CONSIDERATION OF APPRENTICESHIP EMPLOYMENT GOAL.—The Secretary of Defense shall revise the Defense Supplement to the Federal Acquisition Regulation to require that the system used by the Federal Government to monitor or record contractor past performance includes an analysis of whether the contractor has made a good faith effort to meet or exceed the apprenticeship employment goal, including consideration of actual utilization by the contractor of qualified apprentices, as part of the past performance rating of such contractor.

"(d) INCENTIVES.—The Secretary of Defense shall develop incentives for prospective contractors on military

construction projects to meet or exceed the apprenticeship employment goal.''.

(b) CLERICAL AMENDMENT.—The table of sections at the beginning of subchapter III of chapter 169 of title 10, United States Code, is amended by adding at the end the following new item:

''2870. Utilization of qualified apprentices by military construction contractors.''.

(c) APPLICABILITY.—The amendments made by this section shall apply with respect to contracts awarded on or after the date that is 180 days after the date of the enactment of this Act.

Subtitle D—Provisions Relating to Acquisition Security

SEC. 851. SUPPLY CHAIN SECURITY OF CERTAIN TELECOMMUNICATIONS AND VIDEO SURVEILLANCE SERVICES OR EQUIPMENT.

(a) ASSESSMENT.—The Secretary of Defense, in consultation with the Federal Acquisition Security Council (established under section 1322 of title 41, United States Code) and the Director of the Office of Management and Budget, shall conduct a comprehensive assessment of—

(1) Department of Defense policies relating to covered equipment and services;

(2) covered equipment and services acquired or to be acquired for the Department; and

(3) systems of covered contractors to ensure the security of the supply chains of such covered contractor.

(b) PURPOSE.—The assessment described in subsection (a) shall include—

(1) an identification of instances in which the Federal Acquisition Security Council has identified supply chain risks (as defined in section 4713(k) of title 41, United States Code) that are specific to the defense industrial base and other threat assessments related to the procurement of covered articles (as defined in such section);

(2) an identification of and suggestions for guidance on the process of debarment and suspension (including debarment and suspension for nonprocurement programs and activities) of covered contractors to address supply chain risks relating to acquisitions for the Department of Defense, including acquisitions involving other executive agencies; and

(3) an identification of steps that could be taken to address situations identified under paragraphs (1) and (2) through the Interagency Suspension and Debarment Committee established under Executive Order 12549 (51 Fed. Reg. 6370).

(c) ACTIONS FOLLOWING ASSESSMENT.—Not later than 180 days after the date of the enactment of this Act, the Secretary shall, based on the results of the assessment required by subsection (a)—

(1) issue or revise guidance to ensure any entity within the Department of Defense that procures covered equipment and services implements a risk-based approach with respect to such a procurement that addresses—

(A) requirements for training personnel;

(B) the process for making sourcing decisions;

(C) with respect to a procurement of telecommunications equipment or video surveillance equipment, assurances relating to the traceability of parts of such equipment;

(D) the process for reporting suspect covered equipment and services; and

(E) corrective actions for the acquisition of suspect covered equipment and services (including actions to recover costs as described in subsection (d)(2));

(2) issue or revise guidance to ensure that remedial actions, including debarment or suspension, are taken with respect to a covered contractor who

has failed to detect and avoid suspect covered equipment and services or otherwise failed to exercise due diligence in the detection and avoidance of such suspect covered equipment and services;

(3) establish a process for ensuring that a Department of Defense employee provide a written report to the appropriate Government authorities and the Government-Industry Data Exchange Program (or a similar program designated by the Secretary) not later than 60 days after such an employee becomes aware, or has reason to suspect that—

(A) any end item, component, part, or material contained in supplies purchased by or for the Department contains suspect covered equipment and services; or

(B) a covered contractor has provided suspect covered equipment and services; and

(4) establish a process for analyzing, assessing, and acting on reports of suspect covered equipment and services that are submitted in accordance with paragraph (3).

(d) REGULATIONS.—

(1) IN GENERAL.—Not later than 270 days after the date of the enactment of this Act, the Secretary shall revise the Department of Defense Sup-

1 plement to the Federal Acquisition Regulation to ad-
2 dress the detection and avoidance of suspect covered
3 equipment and services.

4 (2) CONTRACTOR RESPONSIBILITIES.—The re-
5 vised regulations issued pursuant to paragraph (1)
6 shall provide that—

7 (A) covered contractors who supply covered
8 equipment or services are responsible for detect-
9 ing and avoiding the use or inclusion of suspect
10 covered equipment or services and for any con-
11 tract modification or corrective action that may
12 be required to remedy the use or inclusion of
13 such suspect covered equipment or services; and

14 (B) the cost of suspect covered equipment
15 or services and the cost of contract modification
16 or corrective action that may be required to
17 remedy the use or inclusion of such suspect cov-
18 ered equipment or services are not allowable
19 costs under defense contracts, unless—

20 (i) the covered contractor has an oper-
21 ational system to detect and avoid suspect
22 covered equipment or services that has
23 been reviewed and approved by the Sec-
24 retary pursuant to subsection (e)(2)(B);

(ii) suspect covered equipment or services were provided to the covered contractor as Government property in accordance with part 45 of the Federal Acquisition Regulation or were obtained by the covered contractor in accordance with regulations described in paragraph (3); and

(iii) the covered contractor discovers the suspect covered equipment or services and provides timely notice to the Government pursuant to paragraph (4).

(3) REQUIREMENTS FOR SUPPLIERS.—The revised regulations issued pursuant to paragraph (1) shall—

(A) require that covered contractors obtain covered equipment or services—

(i) from the original manufacturers of the equipment or their authorized dealers, or from suppliers that meet requirements of subparagraph (C) or (D) and, with respect to suppliers of telecommunications equipment or video surveillance equipment, that obtain such equipment exclusively from the original manufacturers of the

parts of such equipment or their authorized dealers; and

(ii) that are not in production or currently available in stock from suppliers that meet requirements of subparagraph (C) or (D);

(B) establish requirements for notification of the Department, and for inspection, testing, and authentication of covered equipment and services that covered contractor obtains from an alternate supplier;

(C) establish qualification requirements, consistent with the requirements of section 2319 of title 10, United States Code, pursuant to which the Secretary may identify suppliers that have appropriate policies and procedures in place to detect and avoid suspect covered equipment and services; and

(D) authorize covered contractors to identify and use suppliers that meet qualification requirements, provided that—

(i) the standards and processes for identifying such suppliers comply with established industry standards; and

(ii) the selection of such suppliers is subject to review, audit, and approval by appropriate Department of Defense officials.

(4) REPORTING REQUIREMENT.—The revised regulations issued pursuant to paragraph (1) shall require that any covered contractor provide a written report to the appropriate Government authorities and the Government-Industry Data Exchange Program (or a similar program designated by the Secretary) not later than 60 days after such covered contractor becomes aware, or has reason to suspect that—

(A) any end item, component, part, or material contained in supplies purchased by or for the Department contains suspect covered equipment and services; or

(B) a supplier of a covered contractor has provided suspect covered equipment and services.

(e) IMPROVEMENT OF CONTRACTOR SYSTEMS FOR DETECTION AND AVOIDANCE OF SUSPECT COVERED EQUIPMENT AND SERVICES.—

(1) IN GENERAL.—Not later than 270 days after the date of the enactment of this Act, the Sec-

retary shall implement a program to enhance the detection and avoidance of the acquisition of suspect covered equipment and services by covered contractors.

(2) ELEMENTS.—The program implemented pursuant to paragraph (1) shall—

(A) require covered contractors to establish policies and procedures to eliminate suspect covered equipment and services from the defense supply chain, which policies and procedures shall address—

(i) the training of personnel; and

(ii) with respect to a procurement of telecommunications equipment or video surveillance equipment, the inspection and testing of related materials and mechanisms to enable traceability of parts of such equipment; and

(B) establish processes for the review and approval of contractor systems for the detection and avoidance of the acquisition of suspect covered equipment and services by covered contractors, which processes shall be comparable to the processes established for contractor business systems under section 893 of the Ike Skelton

National Defense Authorization Act for Fiscal Year 2011 (Public Law 111–383; 124 Stat. 4311; 10 U.S.C. 2302 note).

(f) RULE OF CONSTRUCTION.—Nothing in this section shall be construed to prohibit the Secretary from entering into a contract with a covered contractor to provide a service that connects to the facilities of a third party, such as backhaul, roaming, or interconnection arrangements.

(g) REPORT TO CONGRESS.—Not later than 180 days after completing the assessment required under subsection (a), the Secretary shall submit to the congressional defense committees a report on the results of the assessment and the actions taken following the assessment pursuant to subsection (c).

(h) DEFINITIONS.—In this section:

(1) COVERED EQUIPMENT AND SERVICES.—The term ''covered equipment and services'' means telecommunications equipment, telecommunications services, video surveillance equipment, and video surveillance services manufactured or controlled by an entity for which the principal place of business of such entity is located in foreign country that is an adversary of the United States, but does not include telecommunications equipment or video surveillance

equipment (other than optical transmission components) that cannot route or redirect user data traffic or permit visibility into any user data or packets that such equipment transmits or otherwise handles.

(2) COVERED CONTRACTOR.—The term ''covered contractor'' means a contractor or subcontractor (at any tier) that supplies covered equipment and services to the Department of Defense.

(3) EXECUTIVE AGENCY.—The term ''executive agency'' has the meaning given in section 133 of title 41, United States Code.

(4) SECRETARY.—The term ''Secretary'' means the Secretary of Defense.

(5) SUSPECT COVERED EQUIPMENT AND SERVICES.—The term ''suspect covered equipment and services'' means covered equipment and services that is from any source, or that is a covered article, subject to an exclusion order or removal order under section 1323(c) of title 41, United States Code.

SEC. 852. ASSURED SECURITY AGAINST INTRUSION ON UNITED STATES MILITARY NETWORKS.

(a) PROHIBITION.—Except as provided in subsections (b) and (c), the Secretary of Defense shall only award contracts for the procurement of telecommunications services or the installation of telecommunications infrastructure on

national security installations on territories of the United States located in the Pacific Ocean to allowed contractors.

(b) EXCEPTION.—Subsection (a) shall not apply to contracts the procurement of telecommunications services or the installation of telecommunications infrastructure if such telecommunications services or telecommunications infrastructure does not process or carry any information about the operations of the Armed Forces of the United States or otherwise concern the national security of the United States.

(c) WAIVER.—The Secretary of Defense may waive the restriction of subsection (a) upon a written determination that such a waiver is in the national security interests of the United States and either—

(1) a contractor that is not an allowed contractor would not have the ability to track, record, listen, or otherwise access data or voice communications of the Department of Defense through the provision of the telecommunications service; or

(2) a qualified allowed contractor is not available to perform the contract at a fair and reasonable price.

(d) DEFINITIONS.—In this section:

(1) ALLOWED CONTRACTOR.—The term ''allowed contractor'' means—

(A) an entity that is 100 percent owned by persons located in the United States that has submitted an offer for a contract let by the Department of Defense; or

(B) an entity that—

(i) is 100 percent owned by persons located in the United States or in a covered foreign country that has submitted an offer for a contract let by the Department of Defense; and

(ii) does not have significant connections, including major equipment purchases, ownership interests, or joint ventures, with any entity identified in subsection (f)(3) of section 889 of the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Pub. L. 115-232; 132 Stat. 1918; 41 U.S.C. 3901 note)

(2) COVERED FOREIGN COUNTRY.—The term ''covered foreign country'' means a foreign country the government of which permits allowed contractors to compete on a fair basis for contracts for the procurement of telecommunications services or the installation of telecommunications infrastructure let by the government of such foreign country.

(3) NATIONAL SECURITY INSTALLATION.—The term ''national security installation'' means any facility operated by the Department of Defense.

(4) TELECOMMUNICATIONS SERVICE.—The term ''telecommunications service'' has the meaning given in section 3 of the Communications Act of 1934 (47 U.S.C. 153).

(5) TELECOMMUNICATIONS INFRASTRUCTURE.—The term ''telecommunications infrastructure'' means any wire or switching facilities used to provide telecommunications services.

SEC. 853. REVISED AUTHORITIES TO DEFEAT ADVERSARY EFFORTS TO COMPROMISE UNITED STATES DEFENSE CAPABILITIES.

(a) SENSE OF CONGRESS.—Congress finds that to comprehensively address the supply chain vulnerabilities of the Department of Defense, defense contractors must be incentivized to prioritize security in a manner which exceeds basic compliance with mitigation practices relating to cybersecurity risk and supply chain security standards. Defense contractors can no longer pass unknown risks on to the Department of Defense but should be provided with the tools to meet the needs of the Department with respect to cybersecurity risk and supply chain security. Incentives for defense contractors will help stimulate efforts within

the defense industrial base to minimize vulnerabilities in hardware, software, and supply chain services. The Department of Defense must develop policies and regulations that move security from a cost that defense contractors seek to minimize to a key consideration in the award of contracts, equal in importance to cost, schedule, and performance.

(b) INCLUSION OF SECURITY AS PRIMARY PURPOSE FOR THE DEPARTMENT OF DEFENSE ACQUISITION.—

(1) IN GENERAL.—Not later than 180 days after the date of the enactment of this Act, the Secretary of Defense shall the revise the statement of purpose in the Defense Federal Acquisition Regulation Supplement added by section 801(3) of the National Defense Authorization Act for Fiscal Year 2018 (Public Law 115–91; 131 Stat. 1449; U.S.C. 2302 note) to include the security of goods acquired by the Department of Defense as one of the primary objectives of Department of Defense acquisition. The Secretary shall revise applicable Department of Defense Instructions, regulations, and directives to implement the inclusion of security as a primary purpose of Department of Defense acquisition.

(2) CONGRESSIONAL NOTIFICATION.—The Secretary shall submit to the congressional defense committees—

(A) not later than 60 days before issuing the revisions described in paragraph (1), the proposed revisions; and

(B) not later than 180 days after the date of the enactment of this Act, recommendations for legislative action to implement the revisions described in this subsection.

(c) CERTIFICATION OF RISK.—

(1) IN GENERAL.—Before making a milestone decision with respect to a major defense acquisition program (as defined under section 2430 of title 10, United States Code), a major automated information system, or major system (as defined under section 2302d of title 10, United States Code), the vice chief of the Armed Force concerned shall issue a written assessment to the Vice Chief of the Joint Chiefs of Staff and the head of the Defense Acquisition Board stating the determination made by the vice chief of the armed force concerned of the risk to the supply chain associated with the procurement. Such assessment shall include—

(A) a description of actions taken to mitigate potential vulnerabilities associated with the procurement; and

(B) a certification from the Secretary of the military department concerned or the Vice Chief of the Joint Chief of Staff (as appropriate) that the procurement will not interfere with the operations of the military department conducting the procurement.

(2) AVAILABILITY TO THE CONGRESSIONAL DEFENSE COMMITTEES.—Upon request, the vice chief of the Armed Force concerned shall make available to the congressional defense committees a certification required under paragraph (1), along with the data on which such certification is based, not later than 15 days after the submission of a request.

(d) DISPUTES RELATING TO ACQUISITIONS DECISIONS.—The Under Secretary of Defense for Intelligence, the Vice Chairman of the Joint Chiefs of Staff, the Vice Chief of Staff of the Army, the Vice Chief of Naval Operations, the Vice Chief of Staff of the Air Force, and the Assistant Commandant of the Marine Corps shall each have the authority to submit to the Secretary of Defense a written statement of dispute relating to a decision made by the Defense Acquisition Board with respect to an ac-

quisition. A dispute submitted under this subsection shall include any reason why the decision fails to effectively address concerns regarding the item to be acquired.

SEC. 854. PROHIBITION ON OPERATION OR PROCUREMENT OF FOREIGN-MADE UNMANNED AIRCRAFT SYSTEMS.

(a) PROHIBITION ON AGENCY OPERATION OR PROCUREMENT.—The Secretary of Defense may not operate or enter into or renew a contract for the procurement of—

(1) a covered unmanned aircraft system that—

(A) is manufactured in a covered foreign country or by an entity domiciled in a covered foreign country;

(B) uses flight controllers, radios, data transmission devices, cameras, or gimbals manufactured in a covered foreign country or by an entity domiciled in a covered foreign country;

(C) uses a ground control system or operating software developed in a covered foreign country or by an entity domiciled in a covered foreign country; or

(D) uses network connectivity or data storage located in or administered by an entity domiciled in a covered foreign country; or

(2) a system manufactured in a covered foreign country or by an entity domiciled in a covered foreign country for the detection or identification of covered unmanned aircraft systems.

(b) EXEMPTION.—The Secretary of Defense is exempt from the restriction under subsection (a) if the operation or procurement is for the purposes of—

(1) Counter-UAS surrogate testing and training; or

(2) intelligence, electronic warfare, and information warfare operations, testing, analysis, and training.

(c) WAIVER.—The Secretary of Defense may waive the restriction under subsection (a) on a case by case basis by certifying in writing to the congressional defense committees that the operation or procurement is required in the national interest of the United States.

(d) DEFINITIONS.—In this section:

(1) COVERED FOREIGN COUNTRY.—The term ''covered foreign country'' means a country labeled as a strategic competitor in the ''Summary of the 2018 National Defense Strategy of the United States of America: Sharpening the American Military's Competitive Edge'' issued by the Department

of Defense pursuant to section 113 of title 10, United States Code.

(2) COVERED UNMANNED AIRCRAFT SYSTEM.—The term ''covered unmanned aircraft system'' means an unmanned aircraft system and any related services and equipment.

SEC. 855. SUPPLY CHAIN RISK MITIGATION POLICIES TO BE IMPLEMENTED THROUGH REQUIREMENTS GENERATION PROCESS.

(a) PROCESS FOR ENHANCED SUPPLY CHAIN SCRUTINY.—Section 807(b) of the National Defense Authorization Act for Fiscal Year 2018 (Public Law 115–91; 131 Stat. 1456; 10 U.S.C. 2302 note) is amended—

(1) by redesignating paragraphs (5) through (9) as paragraphs (6) through (10), respectively; and

(2) by inserting after paragraph (4) the following new paragraph:

''(5) Development of tools for implementing supply chain risk management policies during the generation of requirements for a contract.''.

(b) TECHNICAL AMENDMENT.—Subsection (a) of such section is amended by striking ''Not later than'' and all that follows through ''the Secretary'' and inserting ''The Secretary''.

(c) EFFECTIVE DATE.—Not later than 90 days after the date of the enactment of this Act, the Secretary of Defense shall revise the process established under section 807 of the National Defense Authorization Act for Fiscal Year 2018 (Public Law 115–91; 10 U.S.C. 2302 note) to carry out the requirements of this section.

Subtitle E—Provisions Relating to the Acquisition System

SEC. 861. MODIFICATIONS TO THE DEFENSE ACQUISITION SYSTEM.

(a) GUIDANCE, REPORTS, AND LIMITATION ON THE AVAILABILITY OF FUNDS RELATING TO COVERED DEFENSE BUSINESS SYSTEMS.—

(1) AMENDMENTS TO GUIDANCE FOR COVERED DEFENSE BUSINESS SYSTEMS.—Section 2222(d) of title 10, United States Code, is amended—

(A) in the matter preceding paragraph (1), by striking ''subsection (c)(1)'' and inserting ''subsection (c)''; and

(B) by adding at the end the following new paragraphs:

''(7) Policy to ensure a covered defense business system is in compliance with the Department's auditability requirements.

"(8) Policy to ensure approvals required for the development of a covered defense business system.".

(2) REPORTS.—

(A) GUIDANCE.—The Secretary of Defense shall submit to the congressional defense committees (as defined in section 101(a)(16) of title 10, United States Code) a report—

(i) not later than December 31, 2019, that includes the guidance required under paragraph (1) of section 2222(c) of title 10, United States Code; and

(ii) not later than March 31, 2020, that includes the guidance required under paragraph (2) of such section.

(B) INFORMATION TECHNOLOGY ENTERPRISE ARCHITECTURE.—Not later than December 31, 2019, the Chief Information Officer of the Department of Defense shall submit to the congressional defense committees the information technology enterprise architecture developed under section 2222(e)(4)(B) of title 10, United States Code, which shall include the plan for improving the information technology and computing infrastructure described in such

section and a schedule for implementing the plan.

(C) DEFENSE BUSINESS ENTERPRISE ARCHITECTURE.—Not later than March 31, 2020, the Chief Management Officer of the Department of Defense and the Chief Information Officer of the Department of Defense shall jointly submit to the congressional defense committees a plan and schedule for integrating the defense business enterprise architecture developed under subsection (e) of section 2222 of title 10, United States Code, into the information technology enterprise architecture, as required under paragraph (4)(A) of such subsection.

(3) LIMITATION.—

(A) Of the funds authorized to be appropriated by this Act or otherwise made available for fiscal year 2020 for the Department of Defense, not more than 75 percent may be obligated or expended for the Office of the Secretary of Defense after December 31, 2019, until the date on which the Secretary of Defense submits the report required under subsection (b)(1)(A).

(B) Of the funds authorized to be appropriated by this Act or otherwise made available for fiscal year 2020 for the Department of Defense, not more than 75 percent may be obligated or expended for the Office of the Deputy Chief Management Officer, the Office of the Under Secretary of Defense for Acquisition and Sustainment, the Office of the Chief Information Officer, and the Office of the Chief Management Officer after March 31, 2020, until the date on which the Secretary of Defense submits the report required under subsection (b)(1)(B).

(C) Of the funds authorized to be appropriated by this Act or otherwise made available for fiscal year 2020 for the Department of Defense, not more than 75 percent may be obligated or expended for the Office of the Chief Information Officer after December 31, 2019, until the date on which the Secretary of Defense submits the report required under subsection (b)(2).

(D) Of the funds authorized to be appropriated by this Act or otherwise made available for fiscal year 2020 for the Department of Defense, not more than 75 percent may be obli-

gated or expended for the Office of the Chief Management Officer and the Office of the Chief Information Officer after March 31, 2020, until the date on which the Secretary of Defense submits the report required under subsection (b)(3).

(b) PILOT PROGRAM ON DATA RIGHTS AS AN EVALUATION FACTOR.—

(1) PILOT PROGRAM.—Not later than February 1, 2020, the Secretary of Defense and the Secretaries of the military departments shall jointly carry out a pilot program to assess mechanisms to evaluate intellectual property to include technical data deliverables, associated license rights, and commercially available intellectual property valuation analysis and techniques in major defense acquisition programs (as defined in section 2430 of title 10, United States Code) selected pursuant to subsection (b) to ensure—

(A) the development of cost-effective intellectual property strategies; and

(B) assessment and management of the value and costs of intellectual property during acquisition and sustainment activities through-

out the life cycle of a weapon system for each selected major defense acquisition program.

(2) SELECTION OF MAJOR DEFENSE ACQUISITION PROGRAMS.—Each Secretary of a military department shall select one major defense acquisition program for which such Secretary has responsibility to include in the pilot program established under subsection (a).

(3) CADRE OF INTELLECTUAL PROPERTY EXPERTS.—At Milestone A and Milestone B for each major defense acquisition program selected pursuant to subsection (b), the cadre of intellectual property experts established under section 2322(b) of title 10, United States Code, shall identify, to the maximum extent practicable, intellectual property evaluation techniques to obtain quantitative and qualitative analysis related to the value of intellectual property rights during the procurement, production, deployment, operations, and support phases of the acquisition of each such major defense acquisition program.

(4) ACTIVITIES.—The pilot program established under this section shall include the following:

(A) Assessment of commercial valuation techniques for intellectual property rights for use by the Department of Defense.

(B) Assessment of feasibility of oversight by the Secretary of Defense to standardize practices and procedures.

(C) Assessment of contracting mechanisms to increase the speed of delivery of intellectual property to the Armed Forces or to reduce sustainment costs.

(D) Assessment of acquisition planning necessary to ensure procurement of intellectual property deliverables and intellectual property rights necessary for Government-planned sustainment activities.

(E) Engagement with private-sector entities to—

(i) support the development of strategies and program requirements to aid in acquisition and transition planning for intellectual property;

(ii) support the development and improvement of intellectual property strategies as part of life-cycle sustainment plans and valuation techniques for the costs of intellectual property rights as part of life-cycle costs; and

(iii) propose and implement alternative and innovative methods of intellectual property valuation, prioritization, and evaluation techniques for intellectual property.

(F) Recommendations to the program manager for a major defense acquisition program selected pursuant to subsection (b) such evaluation techniques and contracting mechanisms for implementation into the acquisition and sustainment activities of that major defense acquisition program.

(5) ASSESSMENT.—Not later than February 1, 2021, and annually thereafter until the termination date of the pilot program, the Secretary of Defense shall submit to the congressional defense committees a report on the pilot program established under subsection (a). The report shall include—

(A) a description of the major defense acquisition programs selected pursuant to subsection (b);

(B) a description of the specific activities in subsection (d) that were performed with respect to each major defense acquisition program selected pursuant to subsection (b);

(C) an assessment of the effectiveness of such activities;

(D) an assessment of improvements to acquisition or sustainment activities related to the pilot program; and

(E) an assessment of cost savings from the activities related to the pilot program, including any improvement to mission success during the operations and support phase of a major defense acquisition program selected pursuant to subsection (b).

(6) TERMINATION.—The authority to carry out the pilot program under this section shall expire on September 30, 2026.

(c) REPORT AND LIMITATION ON AVAILABILITY OF FUNDS RELATING TO MODULAR OPEN SYSTEM APPROACH FOR MAJOR DEFENSE ACQUISITION PROGRAMS.—

(1) STUDY GUIDANCE FOR ANALYSES OF ALTERNATIVES FOR MAJOR DEFENSE ACQUISITION PROGRAMS.—

(A) REPORT.—Not later than December 31, 2019, the Secretary of Defense, acting through the Director of Cost Assessment and Performance Evaluation, shall submit to the

congressional defense committees a report that includes the study guidance required under section 2446b(b) of title 10, United States Code.

(B) LIMITATION.—Of the funds authorized to be appropriated by this Act or otherwise made available for fiscal year 2020 for the Department of Defense, not more than 75 percent may be obligated or expended for the Office of the Director of Cost Assessment and Performance Evaluation after December 31, 2019, until the date on which the Secretary of Defense submits the report required under paragraph (1).

(2) POLICY RELATING TO AVAILABILITY OF MAJOR SYSTEM INTERFACES AND SUPPORT FOR MODULAR OPEN SYSTEM APPROACH.—

(A) IN GENERAL.—Section 2446c of title 10, United States Code, is amended—

(i) in the matter preceding paragraph (1), by striking ''shall—'' and inserting ''develop policy on the support for the acquisition for modular open system approaches. This policy shall—''; and

(ii) in subsection (a)(1), as so designated, by striking ''coordinate'' and inserting ''ensure coordination''.

(B) REPORT.—Not later than December 31, 2019, the Secretary of each military department shall submit to the congressional defense committees a report that includes the policy required under section 2446c of title 10, United States Code, as amended by paragraph (1).

(C) LIMITATION.—Beginning on January 1, 2020, if any report required under paragraph (2) has not been submitted to the congressional defense committees, not more than 75 percent of the funds specified in paragraph (4) may be obligated or expended until the date on which all of the reports required under paragraph (2) have been submitted.

(D) FUNDS SPECIFIED.—The funds specified in this paragraph are funds made available for fiscal year 2020 for the Department of Defense for any of the Offices of the Secretaries of the military departments that remain unobligated as of January 1, 2020.

(d) REPORT ON INTELLECTUAL PROPERTY POLICY AND THE CADRE OF INTELLECTUAL PROPERTY EXPERTS.—

(1) IN GENERAL.—Section 802 of the National Defense Authorization Act for Fiscal Year 2018

(Public Law 115–91; 131 Stat. 1450) is amended by adding at the end the following new subsection:

''(c) REPORT.—Not later than October 1, 2019, the Secretary of Defense, acting through the Under Secretary of Defense for Acquisition and Sustainment, shall submit to the congressional defense committees a report that includes—

''(1) the policy required in subsection (a) of section 2322 of title 10, United States Code;

''(2) an identification of each member of the cadre of intellectual property experts required in subsection (b) of such section and the office to which such member; and

''(3) a description of the leadership structure and the office that will manage the cadre of intellectual property experts.''.

(2) LIMITATION.—Of the funds authorized to be appropriated by this Act or otherwise made available for fiscal year 2020 for the Department of Defense, not more than 75 percent may be obligated or expended for the Defense Acquisition Workforce Development Fund until the date on which the Secretary of Defense submits the report required under subsection (c) of section 802 of the National Defense Authorization Act for Fiscal Year 2018 (Pub-

lic Law 115–91; 131 Stat. 1450), as added by this section.

(e) LIMITATION ON AVAILABILITY OF FUNDS FOR THE OFFICE OF THE CHIEF MANAGEMENT OFFICER OF THE DEPARTMENT OF DEFENSE.—Of the funds authorized to be appropriated or otherwise made available for fiscal year 2020 for the Department of Defense, not more than 75 percent may be obligated or expended for the Office of the Chief Management Officer until the date on which the Chief Management Officer submits to the congressional defense committees—

(1) the certification of cost savings described in subparagraph (A) of section 921(b)(5) of the National Defense Authorization Act for Fiscal Year 2019 (Public Law 115–232; 10 U.S.C. 2222 note); or

(2) the notice and justification described in subparagraph (B) of such section.

(f) REPORT AND LIMITATION ON THE AVAILABILITY OF FUNDS RELATING TO THE ''MIDDLE TIER'' OF ACQUISITION PROGRAMS.—

(1) REPORT.—Not later than December 15, 2019, the Under Secretary of Defense for Acquisition and Sustainment shall submit to the congressional defense committees a report that includes the

guidance required under section 804(a) of the National Defense Authorization Act for Fiscal Year 2016 (Public Law 114–92; 10 U.S.C. 2302 note). The Under Secretary of Defense for Acquisition and Sustainment will ensure such guidance includes the business case elements required by an acquisition program established pursuant to such guidance and the metrics required to assess the performance of such a program.

(2) LIMITATION.—Of the funds authorized to be appropriated by this Act or otherwise made available for fiscal year 2020 for the Department of Defense, not more than 75 percent may be obligated or expended for an acquisition program established pursuant to the guidance required under section 804(a) of the National Defense Authorization Act for Fiscal Year 2016 (Public Law 114–92; 10 U.S.C. 2302 note) after December 15, 2019, and no such acquisition program may be conducted under the authority provided by such section after December 15, 2019, until the Under Secretary of Defense for Acquisition and Sustainment submits the report required under subsection (a).

(g) DEFENSE ACQUISITION WORKFORCE CERTIFICATION AND EDUCATION REQUIREMENTS.—

(1) PROFESSIONAL CERTIFICATION REQUIREMENT.—

(A) PROFESSIONAL CERTIFICATION REQUIRED FOR ALL ACQUISITION WORKFORCE PERSONNEL.—Section 1701a of title 10, United States Code, is amended—

(i) by redesignating subsections (c) and (d) as subsections (d) and (e), respectively; and

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

''(c) PROFESSIONAL CERTIFICATION.—

''(1) The Secretary of Defense shall implement a certification program to provide for a professional certification requirement for all members of the acquisition workforce. Except as provided in paragraph (2), the certification requirement for any acquisition workforce career field shall be based on standards under a third-party accredited program based on nationally or internationally recognized standards.

''(2) If the Secretary determines that, for a particular acquisition workforce career field, a third-party accredited program based on nationally or internationally recognized standards does not exist, the Secretary shall establish the certification require-

ment for that career field that conforms with the practices of national or international accrediting bodies. The certification requirement for any such career field shall be implemented using the best approach determined by the Secretary for meeting the certification requirement for that career field, including implementation through entities outside the Department of Defense and may be designed and implemented without regard to section 1746 of this title.''.

(B) PERFORMANCE MANAGEMENT.—Subsection (b) of such section is amended—

(i) in paragraph (5), by striking ''encourage'' and inserting ''direct''; and

(ii) in paragraph (6), by inserting ''and consequences'' after ''warnings''.

(C) PARTICIPATION IN PROFESSIONAL ASSOCIATIONS.—Subsection (b) of such section is further amended—

(i) by redesignating paragraphs (6), (7), (8), and (9) as paragraphs (7), (8), (9), and (10), respectively; and

(ii) by inserting after paragraph (5) the following new paragraph (6):

"(6) authorize members of the acquisition workforce to participate in professional associations, consistent with their individual performance plans, linked to both professional development and opportunities to gain leadership and management skills;".

(D) GENERAL EDUCATION, TRAINING, AND EXPERIENCE REQUIREMENTS.—Section 1723 of such title is amended—

(i) in subsection (a)(3), by striking the second sentence; and

(ii) in subsection (b)(1), by striking "encourage" and inserting "require".

(E) EFFECTIVE DATE.—The Secretary of Defense shall implement procedures to institute the program required by subsection (c) of section 1701a of title 10, United States Code, as added by paragraph (1), not later than 180 days after the date of the enactment of this Act.

(2) ELIMINATION OF STATUTORY REQUIREMENT FOR COMPLETION OF 24 SEMESTER CREDIT HOURS.—

(A) QUALIFICATION REQUIREMENTS FOR CONTRACTING POSITIONS.—Section 1724 of title 10, United States Code, is amended—

(i) in subsection (a)(3)—

(I) by striking ''(A)'' after ''(3)''; and

(II) by striking '', and (B)'' and all that follows through ''and management''; and

(ii) in subsection (b), by striking ''requirements'' in the first sentences of paragraphs (1) and (2) and inserting ''requirement'';

(iii) in subsection (e)(2)—

(I) by striking ''shall have—'' and all that follows through ''been awarded'' and inserting ''shall have been awarded'';

(II) by striking ''; or'' and inserting a period; and

(III) by striking subparagraph (B); and

(iv) in subsection (f), by striking '', including—'' and all that follows and inserting a period.

(B) SELECTION CRITERIA AND PROCEDURES.—Section 1732 of such title is amended—

(i) in subsection (b)(1)—

(I) by striking ''Such requirements,'' and all the follows through ''the person—'' and inserting ''Such requirements shall include a requirement that the person—'';

(II) by striking subparagraph (B); and

(III) by redesignating clauses (i) and (ii) as subparagraphs (A) and (B), respectively, and realigning those subparagraphs so as to be 4 ems from the margin; and

(ii) in subsection (c), by striking ''requirements of subsections (b)(1)(A) and (b)(1)(B)'' in paragraphs (1) and (2) and inserting ''requirement of subsection (b)(1)''.

(3) DEFENSE ACQUISITION UNIVERSITY.—Section 1746 of title 10, United States Code, is amended—

(A) in subsection (b)(1), by adding at the end the following new sentence: ''At least 25 percent of such civilian instructors shall be vis-

iting professors from civilian colleges or universities.''; and

(B) in subsection (c), by inserting '', and with commercial training providers,'' after ''military departments''.

(h) ENHANCING DEFENSE ACQUISITION WORKFORCE CAREER FIELDS.—

(1) CAREER PATHS.—

(A) CAREER PATH REQUIRED FOR EACH ACQUISITION WORKFORCE CAREER FIELD.—Paragraph (4) of section 1701a(b) of title 10, United States Code, is amended to read as follows:

''(4) develop and implement a career path, as described in section 1722(a) of this title, for each career field designated by the Secretary under section 1721(a) of this title as an acquisition workforce career field;''.

(B) CONFORMING AMENDMENTS.—Section 1722(a) of such title is amended—

(i) by striking ''appropriate career paths'' and inserting ''an appropriate career path''; and

(ii) by striking ''are identified'' and inserting ''is identified for each acquisition workforce career field''.

(C) DEADLINE FOR IMPLEMENTATION OF CAREER PATHS.—The implementation of a career path for each acquisition workforce career field required by paragraph (4) of section 1701a(b) of title 10, United States Code (as amended by paragraph (1)), shall be completed by the Secretary of Defense not later than the end of the two-year period beginning on the date of the enactment of this Act.

(2) CAREER FIELDS.—

(A) DESIGNATION OF ACQUISITION WORKFORCE CAREER FIELDS.—Section 1721(a) of such title is amended by adding at the end the following new sentence: ''The Secretary shall also designate in regulations those career fields in the Department of Defense that are acquisition workforce career fields for purposes of this chapter.''.

(B) CLERICAL AMENDMENTS.—(i) The heading of such section is amended to read as follows:

"§ 1721. Designation of acquisition positions and acquisition workforce career fields".

(ii) The item relating to such section in the table of sections at the beginning of subchapter II of chapter 87 of such title is amended to read as follows:

"1721. Designation of acquisition positions and acquisition workforce career fields.".

(C)(i) The heading of subchapter II of chapter 87 of such title is amended to read as follows:

"SUBCHAPTER II—ACQUISITION POSITIONS AND ACQUISITION WORKFORCE CAREER FIELDS".

(ii) The item relating to such subchapter in the table of subchapters at the beginning of such chapter is amended to read as follows:

"II. Acquisition Positions And Acquisition Workforce Career Fields ..... 1721".

(D) DEADLINE FOR DESIGNATION OF CAREER FIELDS.—The designation of acquisition workforce career fields required by the second sentence of section 1721(a) of title 10, United States Code (as added by paragraph (1)), shall be made by the Secretary of Defense not later than the end of the six-month period beginning on the date of the enactment of this Act.

(3) KEY WORK EXPERIENCES.—

(A) DEVELOPMENT OF KEY WORK EXPERIENCES FOR EACH ACQUISITION WORKFORCE CAREER FIELD.—Section 1722b of such title is amended by adding at the end the following new subsection:

''(c) KEY WORK EXPERIENCES.—In carrying out subsection (b)(2), the Secretary shall ensure that key work experiences, in the form of multidiscipline training, are developed for each acquisition workforce career field.''.

(B) PLAN FOR IMPLEMENTATION OF KEY WORK EXPERIENCES.—Not later than one year after the date of the enactment of this Act, the Secretary of Defense shall submit to the congressional defense committees a plan identifying the specific actions the Department of Defense has taken, and is planning to take, to develop and establish key work experiences for each acquisition workforce career field as required by subsection (c) of section 1722b of title 10, United States Code, as added by paragraph (1). The plan shall include specification of the percentage of the acquisition workforce, or funds available for administration of the acquisition workforce on an annual basis, that the Sec-

retary will dedicate towards developing such key work experiences.

(4) APPLICABILITY OF CAREER PATH REQUIREMENTS TO ALL MEMBERS OF ACQUISITION WORKFORCE.—Section 1723(b) of such title is amended by striking ''the critical acquisition-related''.

(5) COMPETENCY DEVELOPMENT.—

(A) IN GENERAL.—(i) Subchapter V of chapter 87 of such title is amended by adding at the end the following new section:

''§ 1765. Competency development

''(a) IN GENERAL.—For each acquisition workforce career field, the Secretary of Defense shall establish, for the civilian personnel in that career field, defined proficiency standards and technical and nontechnical competencies which shall be used in personnel qualification assessments.

''(b) NEGOTIATIONS.—Any action taken by the Secretary under this section, or to implement this section, shall not be subject to the requirements of chapter 71 of title 5.''.

(ii) The table of sections at the beginning of such subchapter II is amended by adding at the end the following new item:

''1765. Competency development.''.

(B) DEADLINE FOR IMPLEMENTATION.—The establishment of defined proficiency standards and technical and nontechnical competencies required by section 1765 of title 10, United States Code (as added by paragraph (1)), shall be made by the Secretary of Defense not later than the end of the two-year period beginning on the date of the enactment of this Act.

(6) TERMINATION OF DEFENSE ACQUISITION CORPS.—

(A) The Acquisition Corps for the Department of Defense referred to in section 1731(a) of title 10, United States Code, is terminated.

(B) Section 1733 of title 10, United States Code, is amended—

(i) by striking subsection (a); and

(ii) by redesignating subsection (b) as subsection (a).

(C) Subsection (b) of section 1731 of such title is transferred to the end of section 1733 of such title, as amended by paragraph (2), and amended—

(i) by striking ''ACQUISITION CORPS'' in the heading and inserting ''THE ACQUISITION WORKFORCE''; and

(ii) by striking ''selected for the Acquisition Corps'' and inserting ''in the acquisition workforce''.

(D) Subsection (e) of section 1732 of such title is transferred to the end of section 1733 of such title, as amended by paragraphs (2) and (3), redesignated as subsection (c), and amended—

(i) by striking ''in the Acquisition Corps'' in paragraphs (1) and (2) and inserting ''in critical acquisition positions''; and

(ii) by striking ''serving in the Corps'' in paragraph (2) and inserting ''employment''.

(E) Sections 1731 and 1732 of such title are repealed.

(F)(i) Section 1733 of such title, as amended by paragraphs (2), (3), and (4), is redesignated as section 1731.

(ii) The table of sections at the beginning of subchapter III of chapter 87 of such title is

amended by striking the items relating to sections 1731, 1732, and 1733 and inserting the following new item:

"1731. Critical acquisition positions.".

(G)(i) The heading of subchapter III of chapter 87 of such title is amended to read as follows:

"SUBCHAPTER III—CRITICAL ACQUISITION POSITIONS".

(ii) The item relating to such subchapter in the table of subchapters at the beginning of such chapter is amended to read as follows:

"III. Critical Acquisition Positions ..... 1731".

(H) Section 1723(a)(2) of such title is amended by striking "section 1733 of this title" and inserting "section 1731 of this title".

(I) Section 1725 of such title is amended—

(i) in subsection (a)(1), by striking "Defense Acquisition Corps" and inserting "acquisition workforce"; and

(ii) in subsection (d)(2), by striking "of the Defense Acquisition Corps" and inserting "in the acquisition workforce serving in critical acquisition positions".

(J) Section 1734 of such title is amended—

(i) by striking ''of the Acquisition Corps'' in subsections (e)(1) and (h) and inserting ''of the acquisition workforce''; and

(ii) in subsection (g)—

(I) by striking ''of the Acquisition Corps'' in the first sentence and inserting ''of the acquisition workforce'';

(II) by striking ''of the Corps'' and inserting ''of the acquisition workforce''; and

(III) by striking ''of the Acquisition Corps'' in the second sentence and inserting ''of the acquisition workforce in critical acquisition positions''.

(K) Section 1737 of such title is amended—

(i) in subsection (a)(1), by striking ''of the Acquisition Corps'' and inserting ''of the acquisition workforce''; and

(ii) in subsection (b), by striking ''of the Corps'' and inserting ''of the acquisition workforce''.

(L) Section 1742(a)(1) of such title is amended by striking ''the Acquisition Corps'' and inserting ''acquisition positions in the Department of Defense''.

(M) Section 2228(a)(4) of such title is amended by striking ''under section 1733(b)(1)(C) of this title'' and inserting ''under section 1731 of this title''.

(N) Section 7016(b)(5)(B) of such title is amended by striking ''under section 1733 of this title'' and inserting ''under section 1731 of this title''.

(O) Section 8016(b)(4)(B) of such title is amended by striking ''under section 1733 of this title'' and inserting ''under section 1731 of this title''.

(P) Section 9016(b)(4)(B) of such title is amended by striking ''under section 1733 of this title'' and inserting ''under section 1731 of this title''.

(Q) Paragraph (1) of section 317 of title 37, United States Code, is amended to read as follows:

''(1) is a member of the acquisition workforce selected to serve in, or serving in, a critical acquisi-

tion position designated under section 1731 of title 10.''.

(i) ESTABLISHMENT OF DEFENSE CIVILIAN ACQUISITION TRAINING CORPS.—

(1) IN GENERAL.—Part III of subtitle A of title 10, United States Code, is amended by inserting after chapter 112 the following new chapter:

''CHAPTER 113—DEFENSE CIVILIAN ACQUISITION TRAINING CORPS

''2200n. Establishment.
''2200o. Program elements.
''2200p. Model authorities.
''2200q. Definitions.

''§ 2200n. Establishment

''For the purposes of preparing selected students for public service in Department of Defense occupations relating to acquisition, science, and engineering, the Secretary of Defense shall establish and maintain a Defense Civilian Acquisition Training Corps program, organized into one or more units, at civilian institutions of higher education offering a program leading to a baccalaureate degree.

''§ 2200o. Program elements

''In establishing the program, the Secretary of Defense shall determine the following:

''(1) Criteria for an institution of higher education to participate in the program.

"(2) The eligibility of a student to join the program.

"(3) Criteria required for a member of the program to receive financial assistance.

"(4) The term of service required for a member of the program to receive financial assistance.

"(5) Criteria required for a member of the program to be released from a term of service.

"(6) The method by which a successful graduate of the program may gain immediate employment in the Department of Defense.

"(7) Resources required for implementation of the program.

"(8) A methodology to identify and target critical skills gaps in Department of Defense occupations relating to acquisition, science, and engineering.

"(9) A mechanism to track the success of the program in eliminating the identified critical skills gap.

"§ 2200p. Model authorities

"In making determinations under section 2200o of this title, the Secretary of Defense shall use the authorities under chapters 103 and 111 of this title as guides.

"§ 2200q. Definitions

''In this chapter:

''(1) The term 'program' means the Defense Civilian Acquisition Training Corps of the Department of Defense.

''(2) The term 'member of the program' means a student at an institution of higher learning who is enrolled in the program.

''(3) The term 'institution of higher education' has the meaning given that term in section 101 of the Higher Education Act of 1965 (20 U.S.C. 1001).''.

(2) IMPLEMENTATION TIMELINE.—

(A) INITIAL IMPLEMENTATION.—Not later than December 31, 2019, the Secretary of Defense shall submit to the congressional defense committees a plan and schedule that implements the program at one institution of higher learning not later than August 1, 2020. The plan shall include recommendations regarding any legislative changes required for effective implementation of the program.

(B) EXPANSION.—Not later than December 31, 2020, the Secretary of Defense shall submit to the congressional defense committees an expansion plan and schedule to expand the

program to five locations not later than by August 1, 2021.

(C) FULL IMPLEMENTATION.—Not later than December 31, 2021, the Secretary of Defense shall submit to the congressional defense committees a full implementation plan and schedule to expand the program to at least 20 locations with not fewer than 400 members in the program not later than August 1, 2022.

(j) CLARIFYING THE ROLES AND RESPONSIBILITIES OF THE UNDER SECRETARY OF DEFENSE FOR ACQUISITION AND SUSTAINMENT AND THE UNDER SECRETARY OF DEFENSE FOR RESEARCH AND ENGINEERING.—The laws of the United States are amended as follows:

(1) Section 129a(c)(3) of title 10, United States Code, is amended by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' and inserting ''Under Secretary of Defense for Acquisition and Sustainment''.

(2) Section 133a(b)(2) of title 10, United States Code, is amended by striking '', including the allocation of resources for defense research and engineering,''.

(3) Section 134(c) of title 10, United States Code, is amended by striking ''Under Secretary of

Defense for Acquisition, Technology, and Logistics,'' and inserting ''Under Secretary of Defense for Acquisition and Sustainment, the Under Secretary of Defense for Research and Engineering,''.

(4) Section 139(b) of title 10, United States Code, is amended in the matter preceding paragraph (1) by striking ''and the Under Secretary of Defense for Acquisition, Technology, and Logistics'' and inserting '', the Under Secretary of Defense for Acquisition and Sustainment, and the Under Secretary of Defense for Research and Engineering''.

(5) Section 139(b)(2) of title 10, United States Code, is amended by striking ''and the Under Secretary of Defense for Acquisition, Technology, and Logistics'' and inserting '', the Under Secretary of Defense for Acquisition and Sustainment, and the Under Secretary of Defense for Research and Engineering,''.

(6) Section 139 of title 10, United States Code, is amended in subsections (c) through (h) by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' each place it appears and inserting ''Under Secretary of Defense for Acquisition and Sustainment''.

(7) Section 139a(d)(6) of title 10, United States Code, is amended by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' and inserting ''Under Secretary of Defense for Acquisition and Sustainment, the Under Secretary of Defense for Research and Engineering,''.

(8) Section 171(a) of title 10, United States Code, is amended—

(A) in paragraph (3), by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' and inserting ''Under Secretary of Defense for Acquisition and Sustainment'';

(B) by inserting after paragraph (3) the following new paragraph:

''(4) the Under Secretary of Defense for Research and Engineering;''; and

(C) by redesignating paragraphs (4) through (13) as paragraphs (5) through (14), respectively.

(9) Section 171a of title 10, United States Code, is amended—

(A) in subsection (b)(2), by striking ''Under Secretary of Defense for Acquisition,

Technology, and Logistics'' and inserting ''Under Secretary of Defense for Acquisition and Sustainment'';

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

''(3) the Under Secretary of Defense for Research and Engineering;'';

(C) in subsection (b), by redesignating paragraphs (3) through (7) as paragraphs (4) through (8), respectively; and

(D) in subsection (c), by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' and inserting ''Under Secretary of Defense for Acquisition and Sustainment''.

(10) Subsection (d)(1) of section 181 of title 10, United States Code, is amended—

(A) in subparagraph (C), by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' and inserting ''Under Secretary of Defense for Acquisition and Sustainment'';

(B) by inserting after subparagraph (C) the following new subparagraph:

"(D) the Under Secretary of Defense for Research and Engineering."; and

(C) by redesignating paragraphs (D) through (G) as paragraphs (E) through (H), respectively.

(11) Subsection (b)(2) of section 393 of title 10, United States Code, is amended—

(A) in subparagraph (B), by striking "Under Secretary of Defense for Acquisition, Technology, and Logistics" and inserting "Under Secretary of Defense for Acquisition and Sustainment";

(B) by inserting after subparagraph (B) the following new subparagraph:

"(C) the Under Secretary of Defense for Research and Engineering."; and

(C) by redesignating subparagraphs (C) through (E) as subparagraphs (D) through (F).

(12) Section 1111 of the National Defense Authorization Act for Fiscal Year 2016 (Public law 114–92; 129 Stat. 1032; 10 U.S.C. 1701 note) is amended by striking "Under Secretary of Defense for Acquisition, Technology, and Logistics" each place such term appears and inserting "Under Secretary of Defense for Acquisition and Sustainment".

(13) Section 231(a) of the National Defense Authorization Act for Fiscal Year 2008 (Public law 110–181; 122 Stat. 45; 10 U.S.C. 1701 note) is amended by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' and inserting ''Under Secretary of Defense for Acquisition and Sustainment''.

(14) Section 1702 of title 10, United States Code, is amended—

(A) in the heading, by striking ''**Under Secretary of Defense for Acquisition, Technology, and Logistics**'' and inserting ''**Under Secretary of Defense for Acquisition and Sustainment**'';

(B) in the section text, by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' and inserting ''Under Secretary of Defense for Acquisition and Sustainment''.

(15) Section 807(a) of the Bob Stump National Defense Authorization Act for Fiscal Year 2003 (Public Law 107–314; 116 Stat. 2608; 10 U.S.C. 1702 note) is amended by striking ''Under Secretary of Defense for Acquisition, Technology, and Logis-

tics'' and inserting ''Under Secretary of Defense for Acquisition and Sustainment''.

(16) Section 1705 of title 10, United Stats Code, is amended—

(A) in subsection (c), by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' and inserting ''Under Secretary of Defense for Acquisition and Sustainment'';

(B) in subsection (e)(3), by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' and inserting ''Under Secretary of Defense for Acquisition and Sustainment''; and

(C) in subsection (g)(2)(B), by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' and inserting ''Under Secretary of Defense for Acquisition and Sustainment''.

(17) Section 803(c) of the National Defense Authorization Act for Fiscal Year 2013 (Public Law 112–239; 126 Stat. 1825; 10 U.S.C. 1705 note) is amended by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' and in-

serting ''Under Secretary of Defense for Acquisition and Sustainment''.

(18) Section 1722 of title 10, United States Code, is amended—

(A) in subsection (a), by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' and inserting ''Under Secretary of Defense for Acquisition and Sustainment''; and

(B) in subsection (b)(2)(B), by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' and inserting ''Under Secretary of Defense for Acquisition and Sustainment''.

(19) Section 1722a of title 10, United States Code, is amended—

(A) in subsection (a), by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' and inserting ''Under Secretary of Defense for Acquisition and Sustainment''; and

(B) in subsection (e), by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' and inserting ''Under

Secretary of Defense for Acquisition and Sustainment''.

(20) Section 1722b(a) of title 10, United States Code, is amended by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' and inserting ''Under Secretary of Defense for Acquisition and Sustainment''.

(21) Section 1723 of title 10, United States Code, is amended—

(A) in subsection (a)(3), by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' and inserting ''Under Secretary of Defense for Acquisition and Sustainment''; and

(B) in subsection (b), by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' and inserting ''Under Secretary of Defense for Acquisition and Sustainment''.

(22) Section 1725(e)(2) of title 10, United States Code, is amended by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' and inserting ''Under Secretary of Defense for Acquisition and Sustainment''.

(23) Section 1735(c)(1) of title 10, United States Code, is amended by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' and inserting ''Under Secretary of Defense for Acquisition and Sustainment''.

(24) Section 1737(c) of title 10, United States Code, is amended by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' and inserting ''Under Secretary of Defense for Acquisition and Sustainment''.

(25) Section 1741(b) of title 10, United States Code, is amended by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' and inserting ''Under Secretary of Defense for Acquisition and Sustainment''.

(26) Section 1746(a) of title 10, United States Code, is amended by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' and inserting ''Under Secretary of Defense for Acquisition and Sustainment''.

(27) Section 1748 of title 10, United States Code, is amended by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' and inserting ''Under Secretary of Defense for Acquisition and Sustainment''.

(28) Section 2222 of title 10, United States Code, is amended—

(A) in subsection (c)(2), by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' and inserting ''Under Secretary of Defense for Acquisition and Sustainment''; and

(B) in subsection (f)(2)(B)(i), by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' and inserting ''Under Secretary of Defense for Acquisition and Sustainment''.

(29) Section 217(a) of the National Defense Authorization Act for Fiscal Year 2016 (Public Law 114–92; 129 Stat. 770; 10 U.S.C. 2222 note) is amended by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' and inserting ''Under Secretary of Defense for Acquisition and Sustainment''.

(30) Section 882(b) of the Ike Skelton National Defense Authorization Act for Fiscal Year 2011 (Public Law 111–383; 128 Stat. 4308; 10 U.S.C. 2222 note) is amended by striking ''Under Secretary of Defense for Acquisition, Technology, and Logis-

tics'' and inserting ''Under Secretary of Defense for Acquisition and Sustainment''.

(31) Section 2272 of title 10, United States Code, is amended by striking ''Assistant Secretary of Defense for Research and Engineering'' and inserting ''Under Secretary of Defense for Research and Engineering''.

(32) Section 2275(a) of title 10, United States Code, is amended by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' and inserting ''Under Secretary of Defense for Research and Engineering''.

(33) Section 2279(d) of title 10, United States Code, is amended by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' and inserting ''Under Secretary of Defense for Acquisition and Sustainment''.

(34) Section 2279b of title 10, United States Code, is amended—

(A) in subsection (b)—

(i) in paragraph (2), by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' and inserting ''Under Secretary of Defense for Acquisition and Sustainment'';

(ii) by redesignating paragraphs (3) through (10) as paragraphs (4) through (11), respectively; and

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

''(3) the Under Secretary of Defense for Research and Engineering.''; and

(B) in subsection (c), by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' and inserting ''Under Secretary of Defense for Acquisition and Sustainment''.

(35) Section 898(a)(2) of the National Defense Authorization Act for Fiscal Year 2017 (Public Law 114–328; 130 Stat. 2000; 10 U.S.C. 2302 note) is amended by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' each place such term appears and inserting ''Under Secretary of Defense for Acquisition and Sustainment''.

(36) Section 804 of the National Defense Authorization Act for Fiscal Year 2016 (Public Law 114–92; 129 Stat. 726; 10 U.S.C. 2302 note) is amended by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' each

place such term appears and inserting ''Under Secretary of Defense for Acquisition and Sustainment''.

(37) Section 852 of the Carl Levin and Howard P. ''Buck'' McKeon National Defense Authorization Act for Fiscal Year 2015 (Public Law 113–291; 130 Stat. 3458; 10 U.S.C. 2302 note) is amended by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' and inserting ''Under Secretary of Defense for Acquisition and Sustainment''.

(38) Section 806 of the National Defense Authorization Act for Fiscal Year 2012 (Public Law 112–81; 125 Stat. 1487; 10 U.S.C. 2302 note) is amended by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' each place such term appears and inserting ''Under Secretary of Defense for Acquisition and Sustainment''.

(39) Section 843 of the National Defense Authorization Act for Fiscal Year 2012 (Public Law 112–81; 125 Stat. 1487; 10 U.S.C. 2302 note) is amended by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' and inserting ''Under Secretary of Defense for Acquisition and Sustainment''.

(40) Section 254(b) of the Duncan Hunter National Defense Authorization Act for Fiscal Year 2009 (Public Law 110–417; 122 Stat. 4402; 10 U.S.C. 2302 note) is amended by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' and inserting ''Under Secretary of Defense for Acquisition and Sustainment''.

(41) Section 802(d) of the Ronald W. Reagan National Defense Authorization Act for Fiscal Year 2005 (Public Law 108–375; 118 Stat. 2004; 10 U.S.C. 2302 note) is amended by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' each place such term appears and inserting ''Under Secretary of Defense for Acquisition and Sustainment''.

(42) Section 244 of the Bob Stump National Defense Authorization Act for Fiscal Year 2003 (Public Law 107–314; 116 Stat. 2498; 10 U.S.C. 2302 note) is amended by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' each place such term appears and inserting ''Under Secretary of Defense for Acquisition and Sustainment''.

(43) Section 804(c) of the Bob Stump National Defense Authorization Act for Fiscal Year 2003

(Public Law 107–314; 116 Stat. 2605; 10 U.S.C. 2302 note) is amended by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' each place such term appears and inserting ''Under Secretary of Defense for Acquisition and Sustainment''.

(44) Section 2304 of title 10, United States Code, is amended by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' each place such term appears and inserting ''Under Secretary of Defense for Acquisition and Sustainment''.

(45) Section 895 of the National Defense Authorization Act for Fiscal Year 2016 (Public Law 114–92; 129 Stat. 954; 10 U.S.C. 2304 note) is amended by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' each place such term appears and inserting ''Under Secretary of Defense for Acquisition and Sustainment''.

(46) Section 806(b) of the Ike Skelton National Defense Authorization Act for Fiscal Year 2011 (Public Law 111–383; 124 Stat. 4260; 10 U.S.C. 2304 note) is amended by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' each place such term appears and inserting

"Under Secretary of Defense for Acquisition and Sustainment".

(47) Section 821(a) of the National Defense Authorization Act for Fiscal Year 2008 (Public Law 110–181; 122 Stat. 226; 10 U.S.C. 2304 note) is amended by striking "Under Secretary of Defense for Acquisition, Technology, and Logistics" and inserting "Under Secretary of Defense for Acquisition and Sustainment".

(48) Section 801(b)(2)(B) of the National Defense Authorization Act for Fiscal Year 2008 (Public Law 110–181; 122 Stat. 204; 10 U.S.C. 2304 note) is amended by striking "Under Secretary of Defense for Acquisition, Technology, and Logistics" and inserting "Under Secretary of Defense for Acquisition and Sustainment".

(49) Section 817(e) of the John Warner National Defense Authorization Act for Fiscal Year 2007 (Public Law 109–364; 120 Stat. 2326; 10 U.S.C. 2304 note) is amended by striking "Under Secretary of Defense for Acquisition, Technology, and Logistics" and inserting "Under Secretary of Defense for Acquisition and Sustainment".

(50) Section 811(e)(1) of the National Defense Authorization Act for Fiscal Year 2006 (Public Law

109–163; 120 Stat. 2326; 10 U.S.C. 2304 note) is amended by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' and inserting ''Under Secretary of Defense for Acquisition and Sustainment''.

(51) Section 875 of the National Defense Authorization Act for Fiscal Year 2017 (Public Law 114–328; 130 Stat. 2310; 10 U.S.C. 2305 note) is amended—

(A) in subsection (b)(2), by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' and inserting ''Under Secretary of Defense for Acquisition and Sustainment'';

(B) in subsection (c), by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' and inserting ''Under Secretary of Defense for Acquisition and Sustainment'';

(C) in subsection (d), by striking ''The Under Secretary for Acquisition, Technology, and Logistics'' and inserting ''The Under Secretary of Defense for Research and Engineering''; and

(D) in subsection (e) through (f), by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' and inserting ''Under Secretary of Defense for Acquisition and Sustainment''.

(52) Section 888(b)(1) of the National Defense Authorization Act for Fiscal Year 2017 (Public Law 114–328; 130 Stat. 2322; 10 U.S.C. 2305 note) is amended by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' and inserting ''Under Secretary of Defense for Acquisition and Sustainment''.

(53) Section 829(b)(1) of the National Defense Authorization Act for Fiscal Year 2017 (Public Law 114–328; 130 Stat. 2281; 10 U.S.C. 2306 note) is amended by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' and inserting ''Under Secretary of Defense for Acquisition and Sustainment''.

(54) Section 2306b(i)(7) of title 10, United States Code, is amended by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' and inserting ''Under Secretary of Defense for Acquisition and Sustainment''.

(55) Section 2311(c) of title 10, United States Code, is amended—

(A) in paragraph (1), by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' and inserting ''Under Secretary of Defense for Acquisition and Sustainment''; and

(B) in paragraph (2)(B), by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' and inserting ''Under Secretary of Defense for Acquisition and Sustainment''.

(56) Section 824(a) of the Ike Skelton National Defense Authorization Act for Fiscal Year 2011 (Public Law 111–383; 124 Stat. 4269; 10 U.S.C. 2320 note) is amended by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' and inserting ''Under Secretary of Defense for Acquisition and Sustainment''.

(57) Section 2326(g) of title 10, United States Code, is amended by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' and inserting ''Under Secretary of Defense for Acquisition and Sustainment''.

(58) Section 2330 of title 10, United States Code, is amended—

(A) in subsection (a)(1), by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' and inserting ''Under Secretary of Defense for Acquisition and Sustainment'';

(B) in subsection (a)(3), by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' and inserting ''Under Secretary of Defense for Acquisition and Sustainment'';

(C) in subsection (b)(2), by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' and inserting ''Under Secretary of Defense for Acquisition and Sustainment''; and

(D) in subsection (b)(3)(A), by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' and inserting ''Under Secretary of Defense for Acquisition and Sustainment''.

(59) Section 882 of the National Defense Authorization Act for Fiscal Year 2016 (Public Law 114–92; 129 Stat. 942; 10 U.S.C. 2330 note) is

amended in the matter preceding paragraph (1) by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' and inserting ''Under Secretary of Defense for Acquisition and Sustainment''.

(60) Section 801(b)(2)(B) of the National Defense Authorization Act for Fiscal Year 2002 (Public Law 107–107; 115 Stat. 1176; 10 U.S.C. 2330 note) is amended by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' and inserting ''Under Secretary of Defense for Acquisition and Sustainment''.

(61) Section 2334 of title 10, United States Code, is amended by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' each place such term appears and inserting ''Under Secretary of Defense for Acquisition and Sustainment''.

(62) Section 2350a(b)(2) of title 10, United States Code, is amended by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics, and the Assistant Secretary of Defense for Research and Engineering'' and inserting ''Under Secretary of Defense for Acquisition and

Sustainment, and the Under Secretary of Defense for Research and Engineering''.

(63) Section 2359(b)(1) of title 10, United States Code, is amended by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' and inserting ''Under Secretary of Defense for Research and Engineering''.

(64) Section 2359b of title 10, United States Code, is amended—

(A) in subsection (a)(1), by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' and inserting ''Under Secretary of Defense for Research and Engineering''; and

(B) in subsection (l)(1), by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' and inserting ''Under Secretary of Defense for Research and Engineering''.

(65) Section 2365 of title 10, United States Code, is amended—

(A) by striking ''Assistant Secretary'' each place it appears and inserting ''Under Secretary''; and

(B) in subsection (d), by striking paragraph (3).

(66) Section 2375 of title 10, United States Code, is amended by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' each place such term appears and inserting ''Under Secretary of Defense for Acquisition and Sustainment''.

(67) Section 874(b)(1) of the National Defense Authorization Act for Fiscal Year 2017 (Public Law 114–328; 130 Stat. 2310; 10 U.S.C. 2375 note) is amended by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' and inserting ''Under Secretary of Defense for Acquisition and Sustainment''.

(68) Section 876 of the National Defense Authorization Act for Fiscal Year 2017 (Public Law 114–328; 130 Stat. 2311; 10 U.S.C. 2377 note) is amended by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' and inserting ''Under Secretary of Defense for Acquisition and Sustainment''.

(69) Section 855 of the National Defense Authorization Act for Fiscal Year 2016 (Public Law 114–92; 129 Stat. 919; 10 U.S.C. 2377 note) is

amended by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' each place such term appears and inserting ''Under Secretary of Defense for Acquisition and Sustainment''.

(70) Section 856(a)(2)(B) of the National Defense Authorization Act for Fiscal Year 2016 (Public Law 114–92; 129 Stat. 920; 10 U.S.C. 2377 note) is amended by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' and inserting ''Under Secretary of Defense for Acquisition and Sustainment''.

(71) Section 2399(b)(3) of title 10, United States Code, is amended by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics,'' and inserting ''Under Secretary of Defense for Acquisition and Sustainment, the Under Secretary of Defense for Research and Engineering,''.

(72) Section 2419(a)(1) of title 10, United States Code, is amended by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' and inserting ''Under Secretary of Defense for Acquisition and Sustainment''.

(73) Section 825(c)(2) of the National Defense Authorization Act for Fiscal Year 2016 (Public Law

114–92; 129 Stat. 908; 10 U.S.C. 2430 note) is amended by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' and inserting ''Under Secretary of Defense for Acquisition and Sustainment''.

(74) Section 826(e) of the National Defense Authorization Act for Fiscal Year 2016 (Public Law 114–92; 129 Stat. 908; 10 U.S.C. 2430 note) is amended by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' and inserting ''Under Secretary of Defense for Acquisition and Sustainment''.

(75) Section 827(e) of the National Defense Authorization Act for Fiscal Year 2016 (Public Law 114–92; 129 Stat. 909; 10 U.S.C. 2430 note) is amended by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' and inserting ''Under Secretary of Defense for Acquisition and Sustainment''.

(76) Section 811(b) of the National Defense Authorization Act for Fiscal Year 2013 (Public Law 112–239; 126 Stat. 1828; 10 U.S.C. 2430 note) is amended—

(A) in paragraph (1), by striking ''if the Under Secretary of Defense for Acquisition,

Technology, and Logistics'' and inserting ''if the service acquisition executive, in the case of a major defense acquisition program of the military department, or the Under Secretary of Defense for Acquisition and Sustainment, in the case of a Defense-wide or Defense Agency major defense acquisition program,''; and

(B) in paragraph (2), by inserting ''the service acquisition executive or'' before ''the Under Secretary'' each place such term appears.

(77) Section 812(a) of the National Defense Authorization Act for Fiscal Year 2013 (Public Law 112–239; 126 Stat. 1829; 10 U.S.C. 2430 note) is amended by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' and inserting ''Under Secretary of Defense for Acquisition and Sustainment''.

(78) Section 814 of the Duncan Hunter National Defense Authorization Act for Fiscal Year 2009 (Public Law 115–91; 131 Stat. 1467; 10 U.S.C. 2430 note) is amended—

(A) in subsection (b), by striking paragraph (2) and inserting the following new paragraphs:

"(2) REQUIRED MEMBERS.—Each Configuration Steering Board under this section shall include a representative of the following:

"(A) The Chief of Staff of the Armed Force concerned.

"(B) The Comptroller of the military department concerned.

"(C) The military deputy to the service acquisition executive concerned.

"(D) The program executive officer for the major defense acquisition program concerned.

"(3) ADDITIONAL MEMBERS.—In addition to the members required in paragraph (2), when the milestone decision authority for a major defense acquisition program is the Under Secretary of Defense for Acquisition and Sustainment, each Configuration Steering Board under this section shall also include a representative of the following:

"(A) The Office of the Under Secretary of Defense for Acquisition and Sustainment.

"(B) Other armed forces, as appropriate.

"(C) The Joint Staff.

"(D) Other senior representatives of the Office of the Secretary of Defense and the mili-

tary department concerned, as appropriate.''; and

(B) in subsection (c)(5)(B), by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' and inserting ''service acquisition executive''.

(79) Section 801(a)(1) of the John Warner National Defense Authorization Act for Fiscal Year 2007 (Public Law 109–364; 120 Stat. 2312; 10 U.S.C. 2430 note) is amended by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' and inserting ''Under Secretary of Defense for Acquisition and Sustainment''.

(80) Section 924 of the National Defense Authorization Act for Fiscal Year 2004 (Public Law 108–136; 117 Stat. 1576; 10 U.S.C. 2430 note) is amended by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' each place it appears and inserting ''Under Secretary of Defense for Acquisition and Sustainment''.

(81) Section 1675(a) of the National Defense Authorization Act for Fiscal Year 2016 (Public Law 114–92; 192 Stat. 1131; 10 U.S.C. 2431 note) is amended by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' and in-

serting ''the Under Secretary of Defense for Research and Engineering''.

(82) Section 2431a(b) of title 10, United States Code, is amended by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' and inserting ''Under Secretary of Defense for Acquisition and Sustainment''.

(83) Section 2435 of title 10, United States Code, is amended by striking—

(A) in subsection (b), by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' and inserting ''service acquisition executive, in the case of a major defense acquisition program of a military department, or the Under Secretary of Defense for Acquisition and Sustainment, in the case of a Defense-wide or Defense Agency major defense acquisition program''; and

(B) in subsection (e)(2), by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' and inserting ''Under Secretary of Defense for Acquisition and Sustainment''.

(84) Section 2438(b) of title 10, United States Code, is amended—

(A) in paragraph (1), by striking ''Under Secretary of Defense for Acquisition, Technology and Logistics'' and inserting ''Under Secretary of Defense for Acquisition and Sustainment''; and

(B) in paragraph (2), by striking ''Under Secretary of Defense for Acquisition, Technology and Logistics'' and inserting ''Under Secretary of Defense for Acquisition and Sustainment''.

(85) Section 2448b(a) of title 10, United States Code, is amended in the matter preceding paragraph (1) by inserting ''by an independent organization selected by the service acquisition executive'' after ''conducted''.

(86) Section 2503(b) of title 10, United States Code, is amended by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' and inserting ''Under Secretary of Defense for Acquisition and Sustainment''.

(87) Section 2508(b) of title 10, United States Code, is amended by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' and inserting ''Under Secretary of Defense for Acquisition and Sustainment''.

(88) Section 2521 of title 10, United States Code, is amended—

(A) in subsection (a), by striking ''The Under Secretary of Defense for Acquisition, Technology, and Logistics'' and inserting ''The Under Secretary of Defense for Research and Engineering'';

(B) in subsection (e)(4)(D), by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' and inserting ''Under Secretary of Defense for Research and Engineering''; and

(C) in subsection (e)(5), by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' and inserting ''Under Secretary of Defense for Research and Engineering''.

(89) Section 2533b(k)(2)(A) of title 10, United States Code, is amended by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' and inserting ''Under Secretary of Defense for Acquisition and Sustainment''.

(90) Section 2546 of title 10, United States Code, is amended—

(A) in the heading of subsection (a), by striking ''UNDER SECRETARY OF DEFENSE FOR ACQUISITION, TECHNOLOGY, AND LOGISTICS'' and inserting ''UNDER SECRETARY OF DEFENSE FOR ACQUISITION AND SUSTAINMENT'';

(B) in subsection (a), by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' and inserting ''Under Secretary of Defense for Acquisition and Sustainment''; and

(C) in subsection (b), by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' and inserting ''Under Secretary of Defense for Acquisition and Sustainment''.

(91) Section 2548 of title 10, United States Code, is amended—

(A) in subsection (a), by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' and inserting ''Under Secretary of Defense for Acquisition and Sustainment''; and

(B) in subsection (c)(8), by striking ''Under Secretary of Defense for Acquisition,

Technology, and Logistics'' and inserting ''Under Secretary of Defense for Acquisition and Sustainment''.

(92) Section 2902(b) of title 10, United States Code, is amended—

(A) in paragraph (1), by striking ''Office of the Assistant Secretary of Defense for Research and Engineering'' and inserting ''Office of the Secretary of Defense for Research and Engineering''; and

(B) in paragraph (3), by striking ''Office of the Under Secretary of Defense for Acquisition, Technology, and Logistics'' and inserting ''Office of the Under Secretary of Defense for Acquisition and Sustainment''.

(93) Section 2824(d) of the National Defense Authorization Act for Fiscal Year 2013 (Public law 112–239; 126 Stat. 2154; 10 U.S.C. 2911 note) is amended by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics and the Assistant Secretary of Defense for Energy, Installations, and Environment'' and inserting ''Under Secretary of Defense for Acquisition and Sustainment''.

(94) Section 315(d) of the National Defense Authorization Act for Fiscal Year 2012 (Public law

112–81; 125 Stat. 1357; 10 U.S.C. 2911 note) is amended by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' and inserting ''Under Secretary of Defense for Acquisition and Sustainment''.

(95) Section 2926(e)(5)(D) of title 10, United States Code, is amended by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' and inserting ''Under Secretary for Defense for Acquisition and Sustainment''.

(96) Section 836(a)(2) of the National Defense Authorization Act for Fiscal Year 2012 (Public Law 112–81; 125 Stat. 1508; 22 U.S.C. 2767 note) is amended by striking ''the Under Secretary of Defense for Acquisition, Technology, and Logistics, the Assistant Secretary of Defense for Research,'' and inserting ''the Under Secretary of Defense for Acquisition and Sustainment, the Under Secretary of Defense for Research and Engineering,''.

(97) Section 7103(d)(7)(M)(v) of title 22, United States Code, is amended by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' and inserting ''Under Secretary of Defense for Acquisition and Sustainment''.

(98) Section 1126(a)(3) of title 31, United States Code, is amended by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' and inserting ''Under Secretary of Defense for Acquisition and Sustainment''.

(99) Section 11319(d)(4) of title 40, United States Code, is amended by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' and inserting ''Under Secretary of Defense for Acquisition and Sustainment''.

(100) Section 1302(b)(2)(A)(i) of title 41, United States Code, is amended by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' and inserting ''Under Secretary of Defense for Acquisition and Sustainment''.

(101) Section 809 of the National Defense Authorization Act for Fiscal Years 1992 and 1993 (Public Law 102–190; 105 Stat. 1423; 41 U.S.C. 1302 note) is amended by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' and inserting ''Under Secretary of Defense for Acquisition and Sustainment''.

(102) Section 1311(b)(3) of title 41, United States Code, is amended by striking ''Under Secretary of Defense for Acquisition, Technology, and

Logistics'' and inserting ''Under Secretary of Defense for Acquisition and Sustainment''.

(103) Section 98f(a)(3) of title 50, United States Code, is amended by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' and inserting ''Under Secretary of Defense for Acquisition and Sustainment''.

(104) Section 1521 of title 50, United States Code, is amended—

(A) in subsection (f)(1), by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' and inserting ''Under Secretary of Defense for Acquisition and Sustainment''; and

(B) in subsection (g)(2), by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' and inserting ''Under Secretary of Defense for Acquisition and Sustainment.''.

(k) REQUIREMENTS FOR THE NATIONAL SECURITY STRATEGY FOR NATIONAL TECHNOLOGY AND INDUSTRIAL BASE.—

(1) NATIONAL SECURITY STRATEGY FOR NATIONAL TECHNOLOGY AND INDUSTRIAL BASE.—Section 2501(a) of title 10, United States Code, is

amended by inserting after the first sentence the following new sentence: ''The Secretary shall submit such strategy to Congress not later than 180 days after the date of submission of the national security strategy report required under section 108 of the National Security Act of 1947 (50 U.S.C. 3043).''.

(2) ANNUAL REPORT TO CONGRESS.—Section 2504(3) of title 10, United States Code, is amended—

(A) in the matter preceding subparagraph (A), by inserting ''executive order or'' after ''pursuant to'';

(B) by amending subparagraph (A) to read as follows:

''(A) prioritized list of gaps or vulnerabilities in the national technology and industrial base, including—

''(i) a description of mitigation strategies necessary to address such gaps or vulnerabilities;

''(ii) the identification of the individual responsible for addressing such gaps or vulnerabilities; and

''(iii) a proposed timeline for action to address gaps or vulnerabilities.''.

(l) ESTABLISHMENT OF CENTER FOR ACQUISITION INNOVATION.—

(1) ESTABLISHMENT OF CENTER FOR ACQUISITION INNOVATION.—

(A) IN GENERAL.—Chapter 97 of title 10, United States Code, is amended by inserting after section 1746 the following new section:

"§ 1746a. Center for Acquisition Innovation

''(a) ESTABLISHMENT.—The Secretary of Defense, acting through the Under Secretary of Defense for Acquisition and Sustainment, shall establish and maintain a Center for Acquisition Innovation (hereinafter referred to as the 'Center') at the Naval Postgraduate School. The Center shall operate as an academic entity specializing in innovation relating to the defense acquisition system.

''(b) MISSION.—(1) The mission of the Center is to provide to policymakers in the Department of Defense, Congress, and throughout the Government, academic analyses and policy alternatives for innovation in the defense acquisition system. The Center shall accomplish that mission by a variety of means intended to widely disseminate the research findings of the Center.

''(2) In carrying out the mission under paragraph (1), the Center shall, on an ongoing basis, review the statutes and regulations applicable to the defense acquisition

system. The objective of such review is to provide policy alternatives for streamlining and improving the efficiency and effectiveness of the defense acquisition process in order to ensure a defense technology advantage for the United States over potential adversaries.

''(c) IMPLEMENTATION REVIEW OF SECTION 809 PANEL RECOMMENDATIONS AND CENTER POLICY ALTERNATIVES.—(1) The Center shall, on an ongoing basis, review implementation of the recommendations of the Section 809 Panel and policy alternatives provided by the Center. As part of such review, the Center shall—

''(A) for recommendations or policy alternatives for the enactment of legislation, identify whether (or to what extent) the recommendations or policy alternatives have been adopted by being enacted into law by Congress;

''(B) for recommendations or policy alternatives for the issuance of regulations, identify whether (or to what extent) the recommendations or policy alternatives have been adopted through issuance of new agency or Government-wide regulations; and

''(C) for recommendations or policy alternatives for revisions to policies and procedures in the executive branch, identify whether (or to what extent) the recommendations or policy alternatives have been

adopted through issuance of an appropriate implementing directive or other form of guidance.

''(2) In this subsection, the term 'Section 809 Panel' means the panel established by the Secretary of Defense pursuant to section 809 of the National Defense Authorization Act for Fiscal Year 2016 (Public Law 114–92), as amended by section 863(d) of the National Defense Authorization Act for Fiscal Year 2017 (Public Law 114–328) and sections 803(c) and 883 of the National Defense Authorization Act for Fiscal Year 2018 (Public Law 115–91).

''(d) FUNDING.—There shall be available for the Center for any fiscal year from the Defense Acquisition Workforce and Development Fund not less than the amount of $3,000,000 (in fiscal year 2019 constant dollars), in addition to any other amount available for that fiscal year for the Naval Postgraduate School.

''(e) ANNUAL REPORT.—(1) Not later than September 30 each year, the Center shall submit to the Secretary of Defense, who shall forward to the Committees on Armed Services of the Senate and House of Representatives, a report describing the activities of the Center during the previous year and providing the findings, analysis, and policy alternatives of the Center relating to the defense acquisition system.

1 ''(2) Each such report shall be submitted in accord-
2 ance with paragraph (1) without further review within the
3 executive branch.
4 ''(3) Each report under paragraph (1) shall include
5 the following:
6 ''(A) Results of academic research and analysis.
7 ''(B) Results of the implementation reviews
8 conducted pursuant to subsection (d).
9 ''(C) Policy alternatives for such legislative and
10 executive branch action as the Center considers war-
11 ranted.
12 ''(D) Specific implementation language for any
13 statutory changes recommended.
14 ''(f) DEFINITION.—In this section, the term 'defense
15 acquisition system' has the meaning given that term in
16 section 2545(2) of this title.''.
17 (B) CLERICAL AMENDMENT.—The table of
18 sections at the beginning of such chapter is
19 amended by inserting after the item relating to
20 section 2165 the following new item:

''1746a. Center for Acquisition Innovation.''.

21 (2) DEADLINE FOR IMPLEMENTATION.—The
22 Secretary of Defense shall establish the Center for
23 Acquisition Innovation under section 1746a of title
24 10, United States Code, as added by subsection (a),
25 not later than March 1, 2020. The first Director of

the Center shall be appointed not later than June 1, 2020, and the Center should be fully operational not later than June 1, 2021.

(3) IMPLEMENTATION REPORT.—

(A) IN GENERAL.—Not later than January 1, 2021, the head of the Center of Acquisition Innovation shall submit to the Secretary of Defense a report setting forth the organizational plan for the Center for Acquisition Innovation, the proposed budget for the Center, and the timetable for initial and full operations of the Center.

(B) TRANSMITTAL.—The Secretary of Defense shall transmit the report under paragraph (1), together with whatever comments the Secretary considers appropriate, to the Committee on Armed Services of the Senate and the Committee on Armed Services of the House of Representatives not later than February 1, 2021.

(4) RECORDS OF THE SECTION 809 PANEL.—

(A) TRANSFER AND MAINTENANCE OF RECORDS.—Following termination of the Section 809 Panel, the records of the panel shall be transferred to, and shall be maintained by, the Defense Technical Information Center.

Such transfer shall be accomplished not later than August 1, 2019.

(B) STATUS OF RECORDS.—Working papers, records of interview, and any other draft work products generated for any purpose by the Section 809 Panel during its research are covered by the deliberative process privilege exemption under paragraph (5) of section 552(b) of title 5, United States Code.

(C) DEFINITION.—In this section, the term ''Section 809 Panel'' means the panel established by the Secretary of Defense pursuant to section 809 of the National Defense Authorization Act for Fiscal Year 2016 (Public Law 114–92), as amended by section 863(d) of the National Defense Authorization Act for Fiscal Year 2017 (Public Law 114–328) and sections 803(c) and 883 of the National Defense Authorization Act for Fiscal Year 2018 (Public Law 115–91).

Subtitle F—Industrial Base Matters

SEC. 871. CONSIDERATION OF SUBCONTRACTING TO MINORITY INSTITUTIONS.

(a) IN GENERAL.—Chapter 141 of title 10, United States Code, is amended by adding at the end the following new section:

"§ 2410t. Consideration of subcontracting to minority institutions

''(a) CONSIDERATION OF SUBCONTRACTING TO MINORITY INSTITUTIONS.—The Secretary of Defense shall revise the Department of Defense Supplement to the Federal Acquisition Regulation to require that the system used by the Federal Government to monitor or record contractor past performance for a grant or contract awarded to an institution of higher education includes incentives for the award of a sub-grant or subcontract to minority institutions.

''(b) MINORITY INSTITUTION DEFINED.—In this section, the term 'minority institution' means—

''(1) a part B institution (as that term is defined in section 322(2) of the Higher Education Act of 1965 (20 U.S.C. 1061(2)); or

''(2) any other institution of higher education (as that term is defined in section 101 of such Act (20 U.S.C. 1001)) at which not less than 50 percent

of the total student enrollment consists of students from ethnic groups that are underrepresented in the fields of science and engineering.''.

(b) CLERICAL AMENDMENT.—The table of sections at the beginning of such chapter is amended by adding at the end the following new item:

''2410t. Consideration of subcontracting to minority institutions.''.

SEC. 872. SIZE STANDARD CALCULATIONS FOR CERTAIN SMALL BUSINESS CONCERNS.

(a) CLARIFYING AMENDMENT TO THE SMALL BUSINESS RUNWAY EXTENSION ACT OF 2018.—Section 3(a)(2)(C) of the Small Business Act (15 U.S.C. 632(a)(2)(C)) is amended by inserting ''(including the Administration when acting pursuant to subparagraph (A))'' after ''no Federal department or agency''.

(b) FINALIZATION OF SMALL BUSINESS RUNWAY EXTENSION ACT OF 2018 RULES.—The Administrator of the Small Business Administration shall issue a final rule implementing the Small Business Runway Extension Act of 2018 (Public Law 115–324) not later than December 17, 2019.

(c) AMENDMENT TO SIZE STANDARDS FOR CERTAIN SMALL BUSINESS CONCERNS.—

(1) SIZE STANDARDS FOR SMALL BUSINESS CONCERNS PROVIDING SERVICES.—Section 3(a)(2)(C)(ii)(II) of the Small Business Act (15

U.S.C. 632(a)(2)(C)(ii)(II)) is amended by striking "not less than".

(2) SIZE STANDARDS FOR OTHER BUSINESS CONCERNS.—Section 3(a)(2)(C)(ii)(III) of the Small Business Act (15 U.S.C. 632(a)(2)(C)(ii)(III)) is amended by striking "not less than 3 years" and inserting "5 years".

(d) TRANSITION PLAN FOR THE SMALL BUSINESS RUNWAY EXTENSION ACT OF 2018.—

(1) PLAN REQUIRED.—Not later than 90 days after the date of the enactment of this Act, the Administrator of the Small Business Administration shall implement a transition plan to assist business concerns and Federal agencies with compliance with the requirements of the Small Business Runway Extension Act of 2018 (Public Law 115–324).

(2) 3–YEAR CALCULATION FOR SIZE STANDARDS.—

(A) IN GENERAL.—The transition plan described under paragraph (1) shall include a requirement that, during the period beginning on December 17, 2018, and ending on the date that is 6 months after the date on which the Administrator issues final rules implementing the Small Business Runway Extension Act of

2018 (Public Law 115–324), allows the use of a 3-year calculation for a size standard to be applied to a business concern if the use of such 3-year calculation allows such concern to be considered a small business concern under section 3(a)(1) of the Small Business Act (15 U.S.C. 632(a)(1)).

(B) 3-YEAR CALCULATION DEFINED.—In this subsection, the term ''3-year calculation'' means—

(i) with respect to a business concern providing services described under clause (ii)(II) of such section, a determination of the size of such concern on the basis of the annual average gross receipts of such concern over a period of 3 years; and

(ii) with respect to a business concern described under clause (ii)(III) of such section, a determination of the size of such concern on the basis of data over a period of 3 years.

(e) REQUIREMENT TO UPDATE SAM.—Not later than 90 days after the date of the enactment of this Act, the System for Award Management (or any successor sys-

tem) shall be updated to comply with the requirements of this Act.

SEC. 873. MODIFICATIONS TO SMALL BUSINESS SUBCONTRACTING.

(a) SMALL BUSINESS LOWER-TIER SUBCONTRACTING.—Section 8(d) of the Small Business Act (15 U.S.C. 637(d)) is amended—

(1) by amending paragraph (16) to read as follows:

"(16) CREDIT FOR CERTAIN SMALL BUSINESS CONCERN SUBCONTRACTORS.—

"(A) IN GENERAL.—For purposes of determining whether or not a prime contractor has attained the percentage goals specified in paragraph (6)—

"(i) if the subcontracting goals pertain only to a single contract with the Federal agency, the prime contractor may elect to receive credit for small business concerns performing as first tier subcontractors or subcontractors at any tier pursuant to the subcontracting plans required under paragraph (6)(D) in an amount equal to the total dollar value of any subcontracts

awarded to such small business concerns; and

"(ii) if the subcontracting goals pertain to more than one contract with one or more Federal agencies, or to one contract with more than one Federal agency, the prime contractor may only receive credit for first tier subcontractors that are small business concerns.

"(B) COLLECTION AND REVIEW OF DATA ON SUBCONTRACTING PLANS.—The head of each contracting agency shall ensure that—

"(i) the agency collects and reports data on the extent to which contractors of the agency meet the goals and objectives set forth in subcontracting plans submitted pursuant to this subsection; and

"(ii) the agency periodically reviews data collected and reported pursuant to subparagraph (A) for the purpose of ensuring that such contractors comply in good faith with the requirements of this subsection and subcontracting plans submitted by the contractors pursuant to this subsection.

"(C) RULE OF CONSTRUCTION.—Nothing in this paragraph shall be construed to allow a Federal agency to establish a goaling requirement for a prime contractor eligible to receive credit under this paragraph that establishes an amount of subcontracts with a subcontractor that is not a first tier subcontractor for such prime contractor."; and

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

"(18) DISPUTE PROCESS FOR NON-PAYMENT TO SUBCONTRACTORS.—

"(A) NOTICE TO AGENCY.—With respect to a contract with a Federal agency, a subcontractor of a prime contractor on such contract may, if the subcontractor has not received payment for performance on such contract within 30 days of the completion of such performance, notify the Office of Small and Disadvantaged Business Utilization (hereinafter referred to as 'OSDBU') of the Federal agency and the prime contractor of such lack of payment.

"(B) AGENCY DETERMINATION.—

"(i) IN GENERAL.—Upon receipt of a notice described under subparagraph (A)

and if such notice is provided to the agency within the 15-day period following the end the 30-day period described in subparagraph (A), the OSDBU shall verify whether such lack of payment has occurred and determine whether such lack of payment is due to an undue restriction placed on the prime contractor by an action of the Federal agency.

''(ii) RESPONSE DURING DETERMINATION.—During the period in which the OSDBU is making the determination under clause (i), the prime contractor may respond to both the subcontractor and the OSDBU with relevant verifying documentation to either prove payment or allowable status of nonpayment.

''(C) CURE PERIOD.—If the OSDBU verifies that the lack of payment under subparagraph (B) is not due to an action of the Federal agency, and the prime contractor has not provided verifying documentation described in subparagraph (B)(ii), the OSDBU shall notify the prime contractor and provide the prime contractor with a 15-day period in which the

prime contractor may make the payment owed to the subcontractor.

"(D) RESULT OF NONPAYMENT.—If, after notifying the prime contractor under subparagraph (C), the OSDBU determines that the prime contractor has not fully paid the amount owed within the 15-day period described under subparagraph (C), the OSDBU shall ensure that such failure to pay is reflected in the Contractor Performance Assessment Reporting system (or any successor system).".

(b) MAINTENANCE OF RECORDS WITH RESPECT TO CREDIT UNDER A SUBCONTRACTING PLAN.—Section 8(d)(6) of the Small Business Act (15 U.S.C. 637(d)(6)) is amended—

(1) by redesignating subparagraphs (G) and (H) as subparagraphs (H) and (I), respectively (and conforming the margins accordingly); and

(2) by inserting after subparagraph (F) the following new subparagraph:

"(G) a recitation of the types of records the successful offeror or bidder will maintain to demonstrate that procedures have been adopted to substantiate the credit the successful offeror or bidder will elect to receive under paragraph (16)(A)(i);".

SEC. 874. INCLUSION OF BEST IN CLASS DESIGNATIONS IN ANNUAL REPORT ON SMALL BUSINESS GOALS.

Section 15(h) of the Small Business Act (15 U.S.C. 644(h)) is amended by adding at the end the following new paragraph:

"(4) BEST IN CLASS SMALL BUSINESS PARTICIPATION REPORTING.—

"(A) ADDENDUM.—The Administrator, in addition to the requirements under paragraph (2), shall include in the report required by such paragraph, for each best in class designation—

"(i) the total amount of spending Governmentwide in such designation;

"(ii) the number of small business concerns awarded contracts and the dollar amount of such contracts awarded within each such designation to each of the following—

"(I) qualified HUBZone small business concerns;

"(II) small business concerns owned and controlled by women;

"(III) small business concerns owned and controlled by service-disabled veterans; and

"(IV) small business concerns owned and controlled by socially and economically disadvantaged individuals.

"(B) BEST IN CLASS DEFINED.—The term 'best in class' has the meaning given such term by the Director of the Office of Management and Budget.

"(C) EFFECTIVE DATE.—The Administrator shall report on the information described by subparagraph (A) beginning on the date that such information is available in the Federal Procurement Data System, the System for Award Management, or any successor to such systems.".

SEC. 875. SMALL BUSINESS ADMINISTRATION CYBERSECURITY REPORTS.

Section 10 of the Small Business Act (15 U.S.C. 639) is amended by inserting after subsection (a) the following:

"(b) CYBERSECURITY REPORTS.—

"(1) ANNUAL REPORT.—Not later than 180 days after the date of enactment of this subsection, and every year thereafter, the Administrator shall submit a report to the appropriate congressional committees that includes—

"(A) an assessment of the information technology (as defined in section 11101 of title 40, United States Code) and cybersecurity infrastructure of the Administration;

"(B) a strategy to increase the cybersecurity infrastructure of the Administration;

"(C) a detailed account of any information technology equipment or interconnected system or subsystem of equipment of the Administration that was manufactured by an entity that has its principal place of business located in China, Iran, Russia, or North Korea; and

"(D) an account of any cybersecurity risk or incident that occurred at the Administration during the 2-year period preceding the date on which the report is submitted, and any action taken by the Administrator to respond to or remediate any such cybersecurity risk or incident.

"(2) ADDITIONAL REPORTS.—If the Administrator determines that there is a reasonable basis to conclude that a cybersecurity risk or incident occurred at the Administration, the Administrator shall—

"(A) not later than 7 days after the date on which the Administrator makes that deter-

mination, notify the appropriate congressional committees of the cybersecurity risk or incident; and

''(B) not later than 30 days after the date on which the Administrator makes a determination under subparagraph (A)—

''(i) provide notice to individuals and small business concerns affected by the cybersecurity risk or incident; and

''(ii) submit to the appropriate congressional committees a report, based on information available to the Administrator as of the date which the Administrator submits the report, that includes—

''(I) a summary of information about the cybersecurity risk or incident, including how the cybersecurity risk or incident occurred; and

''(II) an estimate of the number of individuals and small business concerns affected by the cybersecurity risk or incident, including an assessment of the risk of harm to affected individuals and small business concerns.

"(3) RULE OF CONSTRUCTION.—Nothing in this subsection shall be construed to affect the reporting requirements of the Administrator under chapter 35 of title 44, United States Code, in particular the requirement to notify the Federal information security incident center under section 3554(b)(7)(C)(ii) of such title, or any other provision of law.

"(4) DEFINITIONS.—In this subsection:

"(A) APPROPRIATE CONGRESSIONAL COMMITTEES.—The term 'appropriate congressional committees' means—

"(i) the Committee on Small Business and Entrepreneurship of the Senate; and

"(ii) the Committee on Small Business of the House of Representatives.

"(B) CYBERSECURITY RISK; INCIDENT.—The terms 'cybersecurity risk' and 'incident' have the meanings given such terms, respectively, under section 2209(a) of the Homeland Security Act of 2002.".

SEC. 876. CYBER COUNSELING CERTIFICATION PROGRAM FOR LEAD SMALL BUSINESS DEVELOPMENT CENTERS.

Section 21 of the Small Business Act (15 U.S.C. 648) is amended by adding at the end the following:

"(o) CYBER COUNSELING CERTIFICATION PROGRAM FOR LEAD SMALL BUSINESS DEVELOPMENT CENTERS.—

"(1) CERTIFICATION PROGRAM.—The Administrator shall establish a cyber counseling certification program, or approve a similar existing program, to certify employees of lead small business development centers to provide cyber planning assistance to small business concerns.

"(2) NUMBER OF CERTIFIED EMPLOYEES.—The Administrator shall ensure that each lead small business development center has at least 1 employee, and not less than 10 percent of the total number of employees of the lead small business development center, certified in providing cyber planning assistance under this subsection.

"(3) CONSIDERATION OF SMALL BUSINESS DEVELOPMENT CENTER CYBER STRATEGY.—In carrying out this subsection, the Administrator, to the extent practicable, shall consider any cyber strategy methods included in the Small Business Development Center Cyber Strategy developed under section

1841(a)(3)(B) of the National Defense Authorization Act for Fiscal Year 2017 (Public Law 114–328; 130 Stat. 2662) and any cybersecurity outreach conducted pursuant to section 2209(l) of the Homeland Security Act of 2002.

"(4) REIMBURSEMENT FOR CERTIFICATION.—Subject to the availability of appropriations, the Administrator shall reimburse a lead small business development center in an amount not to exceed $350,000 in any fiscal year for costs relating to the certification of an employee of the lead small business development center under the program established under paragraph (1).

"(5) DEFINITIONS.—In this subsection:

"(A) CYBER PLANNING ASSISTANCE.—The term 'cyber planning assistance' means counsel and assistance to improve the cybersecurity infrastructure, awareness of cyber threat indicators, and cyber training programs for employees of a small business concern.

"(B) LEAD SMALL BUSINESS DEVELOPMENT CENTER.—The term 'lead small business development center' means a small business development center that has received a grant under this section.".

SEC. 877. EXEMPTION OF CERTAIN CONTRACTS FROM THE PERIODIC INFLATION ADJUSTMENTS TO THE ACQUISITION-RELATED DOLLAR THRESHOLD.

Subparagraph (B) of section 1908(b)(2) of title 41, United States Code, is amended by inserting ''3131 to 3134,'' after ''sections''.

SEC. 878. IMPROVEMENTS TO CERTAIN DEFENSE INNOVATION PROGRAMS.

(a) ALIGNMENT OF THE SMALL BUSINESS INNOVATION RESEARCH PROGRAM AND SMALL BUSINESS TECHNOLOGY TRANSFER PROGRAM OF THE DEPARTMENT OF DEFENSE WITH THE NATIONAL DEFENSE SCIENCE AND TECHNOLOGY STRATEGY.—

(1) IN GENERAL.—The Secretary of Defense and Secretaries of the military departments shall, to the extent practicable, align the research topics selected for activities conducted under the Small Business Innovation Research Program and Small Business Technology Transfer Program (as defined under section 9 of the Small Business Act (15 U.S.C. 638) with the National Defense Science and Technology Strategy established under section 218 of the John. S. McCain National Defense Authorization Act for Fiscal Year 2019 (Public Law 115–232; 132 Stat. 1679).

(2) USE OF NATIONAL DEFENSE SCIENCE AND TECHNOLOGY STRATEGY TO DETERMINE RESEARCH TOPICS.—Section 9 of the Small Business Act (15 U.S.C. 638) is amended—

(A) in subsection (g)(3)(B), by striking ", in the 1992 report" and all that follows through "that authority" and inserting "in the National Defense Science and Technology Strategy established under section 218 of the John. S. McCain National Defense Authorization Act for Fiscal Year 2019 (Public Law 115–232; 132 Stat. 1679)"; and

(B) in subsection (o)(3)(B), by striking ", in accordance with section 2522 of title 10, United States Code" and inserting "in the National Defense Science and Technology Strategy established under section 218 of the John. S. McCain National Defense Authorization Act for Fiscal Year 2019 (Public Law 115–232; 132 Stat. 1679)".

(b) PILOT PROGRAM FOR DOMESTIC INVESTMENT UNDER THE SBIR PROGRAM.—

(1) SENSE OF CONGRESS.—It is the sense of Congress that the Administrator of the Small Business Administration should promulgate regulations

to carry out the requirements under section 9(dd) of the Small Business Act (15 U.S.C. 638(dd)) that—

(A) permit small business concerns that are majority-owned by multiple venture capital operating companies, hedge funds, or private equity firms to participate in the SBIR program in accordance with such section;

(B) provide specific information regarding eligibility, participation, and affiliation rules to such small business concerns; and

(C) preserve and maintain the integrity of the SBIR program as a program for small business concerns in the United States by prohibiting large entities or foreign-owned entities from participation in the SBIR program.

(2) DOMESTIC INVESTMENT PILOT PROGRAM.—

(A) IN GENERAL.—Not later than 1 year after the date of the enactment of this Act and notwithstanding the requirements of section 9(dd) of the Small Business Act (15 U.S.C. 638(dd)), the Secretary of Defense shall create and administer a program to be known as the "Domestic Investment Pilot Program" under which the Secretary and the service acquisition executive for each military department may

make a SBIR award to a small business concern that is majority-owned by multiple United States-owned venture capital operating companies, hedge funds, or private equity firms without providing the written determination described under paragraph (2) of such section 9(dd).

(B) LIMITATION.—The Secretary of Defense may award not more than 10 percent of the funds allocated for the SBIR program of the Department of Defense under section 9(f) of the Small Business Act (15 U.S.C. 638(f)) to small business concerns that are owned in majority part by multiple venture capital operating companies, hedge funds, or private equity firms through competitive, merit-based procedures that are open to all eligible small business concerns.

(C) EVALUATION CRITERIA.—In carrying out the Domestic Investment Pilot Program, the Secretary of Defense may not use investment of venture capital or investment from hedge funds or private equity firms as a criterion for the award of contracts under the SBIR program or STTR program.

(D) ANNUAL REPORTING.—The Secretary of Defense shall include as part of each annual report required under section 9(b)(7) of the Small Business Act (15 U.S.C. 638(9)(b)(7)))—

(i) information on the implementation of the Domestic Investment Pilot Program;

(ii) the number of proposals received from small business concerns that are majority-owned by multiple venture capital operating companies, hedge funds, or private equity firms for the Domestic Investment Pilot Program; and

(iii) the number of awards made to such small business concerns.

(E) TERMINATION.—The Domestic Investment Pilot Program established under this subsection shall terminate on September 30, 2022.

(3) DEFINITIONS.—In this section:

(A) SBIR.—The term ''SBIR'' has the meaning given in section 9(e) of the Small Business Act (15 U.S.C. 638(e)).

(B) SMALL BUSINESS ACT DEFINITIONS.—The terms ''small business concern'', ''venture capital operating company'', ''hedge fund'', and

"private equity firm" have the meanings given those terms, respectively, in section 3 of the Small Business Act (15 U.S.C. 632).

(c) CYBERSECURITY TECHNICAL ASSISTANCE FOR SBIR AND STTR PROGRAMS.—

(1) IN GENERAL.—The Secretary of Defense may enter into an agreement with 1 or more vendors selected under section (9)(q)(2) of the Small Business Act (15 U.S.C. 638(q)(2)) to provide small business concerns engaged in SBIR or STTR projects with cybersecurity technical assistance , such as access to a network of cybersecurity experts and engineers engaged in designing and implementing cybersecurity practices.

(2) AMOUNTS.—In carrying out paragraph (1), the Secretary of Defense may provide the amounts described under section (9)(q)(3) of such Act (15 U.S.C. 638(q)(3)) to a recipient that meets the eligibility requirements under the applicable subparagraph, if the recipient requests to seek cybersecurity technical assistance from an individual or entity other than a vendor selected as described in paragraph (1).

(d) PHASE 0 PROOF OF CONCEPT PARTNERSHIP PROGRAM FOR THE DEPARTMENT OF DEFENSE.—Section

9(jj) of the Small Business Act (15 U.S.C. 638) is amended—

(1) in paragraph (1), by striking ''The Director of the National Institutes of Health'' and inserting ''A covered agency head'';

(2) by striking ''The Director'' each place it appears and inserting ''A covered agency head'';

(3) by striking ''the Director'' each place it appears and inserting ''a covered agency head'';

(4) in paragraph (2)—

(A) by amending subparagraph (A) to read as follows:

''(A) the term 'covered agency head' means—

''(i) with respect to the STTR program of the National Institutes of Health, the Director of the National Institutes of Health; or

''(ii) with respect to the STTR program of the Department of Defense, the Secretary of Defense;''; and

(B) in subparagraph (C), by striking ''in the National Institutes of Health's STTR program'' and inserting ''in either the STTR program of the Department of Defense or the

STTR program of the National Institutes of Health''; and

(5) in paragraph (4)(A), by inserting ''participating in the STTR program administered by such agency head'' after ''a qualifying institution''.

(e) MODIFICATION TO THE DEFENSE RESEARCH AND DEVELOPMENT RAPID INNOVATION PROGRAM.—

(1) INCREASE TO FUNDING.—Section 2359a(b)(3) of title 10, United States Code, is amended by striking ''$3,000,000'' and inserting ''$6,000,000''.

(2) REPORT.—Not later than 180 days after the date of the enactment of this Act, the Secretary of Defense shall submit to the congressional defense committees a report on the program established under section 2359a(b)(3) of title 10, United States Code, (commonly known as the ''Defense Research and Development Rapid Innovation Program''), which shall include—

(A) with respect to the two fiscal years preceding the submission of the report—

(i) a description of the total number of proposals funded under the program;

(ii) the percent of funds made available under the program for Small Business

Innovation Research Program projects; and

(iii) a list of Small Business Innovation Research Program projects that received funding under the program that were included in major defense acquisition programs (as defined in section 2430 of title 10, United States Code) and other defense acquisition programs that meet critical national security needs; and

(B) an assessment on the effectiveness of the program in stimulating innovation technologies, reducing acquisition or lifecycle costs, addressing technical risk, and improving the timeliness and thoroughness of test and evaluation outcomes.

(f) ESTABLISHMENT OF JOINT RESERVE DETACHMENTS AT DEFENSE INNOVATION UNIT.—

(1) ESTABLISHMENT.—The Secretary of Defense, in consultation with the Secretaries of the military departments, shall establish not fewer than three joint reserve detachments (referred to in this section as ''Detachments'') at locations of the Defense Innovation Unit—

(A) to support engagement and collaboration with commercial innovation hubs; and

(B) to accelerate the transition and adoption of commercial technologies for national security purposes.

(2) COMPOSITION.—Each Detachment shall be composed of members of the reserve components who possess relevant private sector experience in the fields of business, acquisition, intelligence, engineering, technology transfer, science, mathematics, contracting, procurement, logistics, cyberspace security, or such other fields as are determined to be relevant by the Under Secretary of Defense for Research and Engineering.

(3) RESPONSIBILITIES.—The Detachments shall have the following responsibilities:

(A) Each Detachment shall provide the Department of Defense with expertise, analysis, alternatives for innovation, and opportunities for greater engagement and collaboration between the defense innovation ecosystem and commercial industry.

(B) Each Detachment shall, on an ongoing basis—

(i) recruit, retain, and employ members of the reserve components who possess relevant private sector experience, as described in paragraph (2);

(ii) partner with the military services, the combatant commands, and other Department of Defense organizations to seek and rapidly prototype advanced commercial solutions while lowering the barrier to entry to serve defense requirements;

(iii) increase awareness of—

(I) the technology portfolios of the Defense Innovation Unit; and

(II) the technology requirements of the Department of Defense as identified in the National Defense Science and Technology Strategy developed under section 218 of the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Public Law 115–232; 132 Stat. 1679);

(iv) capitalize on the growing investment in research and development made by the commercial industry in assessing and maturing dual-use technologies; and

(v) carry out such other activities as may be directed by the Under Secretary of Defense for Research and Engineering.

(4) DEADLINE FOR ESTABLISHMENT OF DETACHMENTS.—The Secretary of Defense shall ensure that—

(A) at least one Detachment is established on or before October 1, 2020; and

(B) all three Detachments required under subsection (a) are established on or before October 1, 2022.

(5) IMPLEMENTATION REPORT.—

(A) IN GENERAL.—Not later than 120 days after the date of the enactment of this Act, the Under Secretary of Defense for Research and Engineering shall submit to the congressional defense committees a report that includes—

(i) an organizational plan for the Detachments;

(ii) the estimated costs of establishing the Detachments;

(iii) a timeline specifying when each Detachment will attain initial operational

capability and full operational capability, respectively.

(B) CONSULTATION.—In preparing the report required under subparagraph (A), the Under Secretary of Defense for Research and Engineering shall consult with the Director of the Defense Innovation Unit and the head of each military service.

(g) MODIFICATION TO DEPARTMENT OF DEFENSE SBIR EXPENDITURES.—Section 9(f) of the Small Business Act (15 U.S.C. 638(f)) is amended—

(1) in paragraph (1)(I), by inserting ", except as provided in paragraph (5)" after "thereafter," and inserting "fiscal years 2017 through 2019; and"; and

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

"(5) REQUIRED EXPENDITURE AMOUNTS FOR THE DEPARTMENT OF DEFENSE.—With respect to fiscal year 2020 and each fiscal year thereafter, paragraph (1)(I) shall apply to the Department of Defense with '4.0 percent' substituted for '3.2 percent'.".

SEC. 879. PILOT PROGRAM FOR DEVELOPMENT OF TECHNOLOGY-ENHANCED CAPABILITIES WITH PARTNERSHIP INTERMEDIARIES.

(a) ESTABLISHMENT.—The Secretary of Defense may authorize the Commander of the United States Special Operations Command to use not more than 5 percent of the funds required to be expended by the Department of Defense under section 9(f)(1) of the Small Business Act (15 U.S.C. 638(f)(1)) for a pilot program to increase participation by small business concerns in the development of technology-enhanced capabilities for special operations forces.

(b) USE OF PARTNERSHIP INTERMEDIARY.—

(1) AUTHORIZATION.—The Commander of the United States Special Operations Command may modify an existing agreement with a partnership intermediary to assist the Commander in carrying out the pilot program under this section, including with respect to the award of Small Business Innovation Research Program contracts, Small Business Technology Transfer Program contracts, and other contracts and agreements to small business concerns.

(2) USE OF FUNDS.—None of the funds referred to in subsection (a) shall be used to pay a

partnership intermediary for any administrative costs associated with the pilot program.

(c) REPORT.—Not later than October 1, 2020, and October 1, 2021, the Commander of the United States Special Operations Command shall submit to the congressional defense committees, the Committee on Small Business of the House of Representatives, and the Committee on Small Business and Entrepreneurship of the Senate a report describing any agreement with a partnership intermediary entered into pursuant to this section. The report shall include, for each such agreement, the amount of funds obligated, an identification of the recipient of such funds, and a description of the use of such funds.

(d) TERMINATION.—The authority to carry out a pilot program under this section shall terminate on September 30, 2021.

(e) DEFINITIONS.—In this section:

(1) PARTNERSHIP INTERMEDIARY.—The term ''partnership intermediary'' has the meaning given the term in section 23(c) of the Stevenson-Wydler Technology Innovation Act of 1980 (15 U.S.C. 3715(c)).

(2) SMALL BUSINESS CONCERN.—The term ''small business concern'' has the meaning given the

term under section 3 of the Small Business Act (15 U.S.C. 632).

(3) SMALL BUSINESS INNOVATION RESEARCH PROGRAM.—The term ''Small Business Innovation Research Program'' has the meaning given the term in section 9(e)(4) of the Small Business Act (15 U.S.C. 638(e)).

(4) SMALL BUSINESS TECHNOLOGY TRANSFER PROGRAM.—The term ''Small Business Technology Transfer Program'' has the meaning given the term in section 9(e)(5) of the Small Business Act (15 U.S.C. 638(e)).

(5) TECHNOLOGY-ENHANCED CAPABILITY.—The term ''technology-enhanced capability'' means a product, concept, or process that improves the ability of a member of the Armed Forces to achieve an assigned mission.

SEC. 880. AUTHORIZED OFFICIAL TO CARRY OUT THE PROCUREMENT TECHNICAL ASSISTANCE COOPERATIVE AGREEMENT PROGRAM.

(a) AUTHORIZED OFFICIAL.—Effective October 1, 2021, section 2411(3) of title 10, United States Code, is amended by striking ''Director of Defense Logistics Agency'' and inserting ''Under Secretary of Defense for Acquisition and Sustainment''.

(b) REPORT AND BRIEFING.—Not later than November 1, 2020, the Secretary of Defense shall provide to the congressional defense committees a written report and briefing on the activities carried out in preparation for the transition of responsibilities for carrying out the procurement technical assistance cooperative agreement program under chapter 142 of title 10, United States Code, from the Director of Defense Logistics Agency to the Under Secretary of Defense for Acquisition and Sustainment, as required by subsection (a).

(c) ANNUAL BUDGET JUSTIFICATION DOCUMENTS.—Not later than February 1, 2022, and each fiscal year thereafter, the Secretary of Defense shall submit to the congressional defense committees a budget justification display that includes the procurement technical assistance cooperative agreement program under chapter 142 of title 10, United States Code, as part of the budget justification for Operation and Maintenance, Defense-wide for the Office of the Secretary of Defense.

SEC. 881. PERMANENT AUTHORIZATION AND IMPROVEMENT OF DEPARTMENT OF DEFENSE MENTOR-PROTEGE PROGRAM.

(a) PERMANENT AUTHORIZATION.—Section 831 of the National Defense Authorization Act for Fiscal Year

1991 (Public Law 101–510; 10 U.S.C. 2302 note) is amended by striking subsection (j).

(b) OFFICE OF SMALL BUSINESS PROGRAMS OVERSIGHT.—Section 831 of the National Defense Authorization Act for Fiscal Year 1991 (Public Law 101–510; 10 U.S.C. 2302 note) is amended—

(1) by redesignating subsection (n) as subsection (o); and

(2) by inserting after subsection (m) the following new subsection:

''(n) ESTABLISHMENT OF PERFORMANCE GOALS AND PERIODIC REVIEWS.—The Office of Small Business Programs of the Department of Defense shall—

''(1) establish performance goals consistent with the stated purpose of the Mentor-Protege Program and outcome-based metrics to measure progress in meeting those goals; and

''(2) submit to the congressional defense committees, not later than February 1, 2020, a report on progress made toward implementing these performance goals and metrics, based on periodic reviews of the procedures used to approve mentor-protege agreements.''.

(c) MODIFICATION OF DISADVANTAGED SMALL BUSINESS CONCERN DEFINITION.—Subsection (o)(2) of

the National Defense Authorization Act for Fiscal Year 1991 (Public Law 101–510; 10 U.S.C. 2302 note), as redesignated by subsection (b)(1) of this section, is amended by striking ''has less than half the size standard corresponding to its primary North American Industry Classification System code'' and inserting ''is not more than the size standard corresponding to its primary North American Industry Classification System code''.

(d) REMOVAL OF PILOT PROGRAM REFERENCES.—Section 831 of the National Defense Authorization Act for Fiscal Year 1991 (Public Law 101–510; 10 U.S.C. 2302 note) is amended—

(1) in the subsection heading for subsection (a), by striking ''PILOT''; and

(2) by striking ''pilot'' each place it appears.

(e) INDEPENDENT REPORT ON PROGRAM EFFECTIVENESS.—

(1) IN GENERAL.—The Secretary of Defense shall direct the Defense Business Board to submit to the congressional defense committees a report evaluating the effectiveness of the Mentor-Protege Program established under section 831 of the National Defense Authorization Act for Fiscal Year 1991 (Public Law 101–510; 10 U.S.C. 2302 note), including recommendations for improving the program in

terms of performance metrics, forms of assistance, and overall program effectiveness not later than March 31, 2022.

(2) CONGRESSIONAL DEFENSE COMMITTEES DEFINED.—In this subsection, the term ''congressional defense committees'' has the meaning given that term in section 101(a)(16) of title 10, United States Code.

Subtitle G—Other Matters

SEC. 891. REQUIREMENT TO USE MODELS OF COMMERCIAL E-COMMERCE PORTAL PROGRAM.

(a) IN GENERAL.—Before the award of a final contract to a commercial e-commerce portal provider pursuant to section 846 of the National Defense Authorization Act for Fiscal Year 2018 (Public Law 115–91; 41 U.S.C. 1901 note), the Administrator of General Services shall establish a five-year program to test the three models for commercial e-commerce portals identified in section 4.1 of ''Procurement Through Commercial E-Commerce Portals Phase II Report: Market Research & Consultation'' issued by the Administrator in April 2019.

(b) ANALYSIS.—The Administrator shall conduct an analysis of the use of the three models described in subsection (a) to determine which model is the most effective for procurement through commercial e-commerce portals.

SEC. 892. REPORT AND DATABASE ON ITEMS MANUFACTURED IN THE UNITED STATES FOR MAJOR DEFENSE ACQUISITION PROGRAMS.

(a) SENSE OF CONGRESS.—It is the sense of Congress that any equipment or products purchased for major defense acquisition programs (as defined in section 2430 of title 10, United States Code) should be manufactured in the United States substantially all from articles, materials, or supplies mined, produced, or manufactured in the United States, and that any such equipment or products purchased by any entity of the Department of Defense should be American-made, provided that American-made equipment and products are of a quality similar to that of competitive offers and are available in a timely manner to meet mission requirements.

(b) IN GENERAL.—Chapter 144 of title 10, United States Code, is amended by inserting after section 2436 the following new section:

"§ 2436a. Major defense acquisition programs: report and database on items manufactured in the United States

''(a) REPORT.—Beginning not later than one year after the date of the enactment of this Act, the Secretary of Defense shall submit to the congressional defense committees an annual report on the percentage of any items procured in connection with a major defense acquisition

program that are manufactured in the United States substantially all from articles, materials, or supplies mined, produced, or manufactured in the United States.

''(b) DATABASE.—The Secretary of Defense shall establish a database for information related to items described in the report required under subsection (a) that can be used for continuous data analysis to inform acquisition decisions relating to major defense acquisition programs.''.

(c) CLERICAL AMENDMENT.—The table of section at the beginning of such chapter is amended by inserting after the item relating to section 2436 the following new item:

''2436a. Major defense acquisition programs: report and database on items manufactured in the United States.''.

SEC. 893. REQUIREMENTS RELATING TO SELECTED ACQUISITION REPORTS.

(a) INAPPLICABILITY OF TERMINATION OF REPORT SUBMITTAL TO CONGRESS.—

(1) IN GENERAL.—Selected Acquisition Reports required by section 2432 of title 10, United States Code, shall not constitute reports covered by subsection (b) of section 1080 of the National Defense Authorization Act for Fiscal Year 2016 (Public Law 114–92; 129 Stat. 1000; 10 U.S.C. 111 note), and their submittal to Congress as required by such sec-

tion 2432 shall not be terminated by operation of subsection (a) of such section 1080.

(2) CONFORMING AMENDMENT.—Effective on December 30, 2021, section 1051(x) of the National Defense Authorization Act for Fiscal Year 2018 (Public Law 115–91; 131 Stat. 1567) is amended by striking paragraph (4).

(b) FORM OF SELECTED ACQUISITION REPORTS.—Section 2432 of title 10, United States Code, is amended by adding at the end the following new subsection:

''(i) A report required under this section shall be submitted in unclassified form without any designation relating to dissemination control, but may contain a classified annex.''.

(c) REPORT ON ALTERNATIVE METHODOLOGY.—The Secretary of Defense shall include with the budget for fiscal year 2021, as submitted to Congress pursuant to section 1105(a) of title 31, United States Code, a report proposing an alternative methodology for providing status reports on major defense acquisition programs and other acquisition activities, including programs carried out under section 804 of the National Defense Authorization Act for Fiscal Year 2016 (Public Law 114–92; 10 U.S.C. 2302 note), where such status reports shall include information on—

(1) scheduled and completed cybersecurity tests of software acquired through a program covered by the status report, including assessments on cooperative vulnerability and penetration and adversarial assessments;

(2) software development metrics, including initial and most recent estimates of the projected value, sizing, schedule, and level of effort for software acquired through a program covered by the status report; and

(3) quality metrics for software acquired through a program covered by the status report.

(d) GUIDANCE ON CYBERSECURITY TESTS.—With respect to cybersecurity tests included in the alternative methodology report described in subsection (c)(1), the Secretary of Defense, in coordination with the Director of Operational Test and Evaluation, shall develop policies on the selection of cybersecurity tests, methods to consistently describe the cybersecurity tests, and methods to associate cybersecurity tests with a component part of a system or a version of the software tested.

SEC. 894. CONTRACTOR SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH PROGRAMS.

(a) IN GENERAL.—Section 862 of National Defense Authorization Act for Fiscal Year 2012 (Public Law 112–

181; 125 Stat. 1521; 10 U.S.C. note prec. 2191) is amended—

(1) in subsection (a), in the matter preceding paragraph (1)—

(A) by striking ''Under Secretary of Defense for Acquisition, Technology, and Logistics'' and inserting ''Under Secretary of Defense for Research and Engineering''; and

(B) by striking ''ensure that Department of Defense contractors'' and inserting ''encourage Department of Defense contractors to''; and

(2) by amending subsection (b) to read as follows:

''(b) ALLOWABLE COST.—The cost of participating in activities described in subsection (a) to a Department of Defense contractor shall be deemed to be an allowable cost under a contract between the contractor and the Department of Defense.''.

(b) IMPLEMENTATION.—Not later than 180 days after the date of the enactment of this Act, the Secretary of Defense shall issue such rules or guidance necessary to implement the amendments made by this section.

SEC. 895. EXTENSION OF SUNSET RELATING TO FEDERAL DATA CENTER CONSOLIDATION INITIATIVE.

Subsection (e) of section 834 of the National Defense Authorization Act for Fiscal Year 2015 (44 U.S.C. 3601 note) is amended by striking ''2020'' and inserting ''2022''.

SEC. 896. REQUIREMENTS RELATING TO CERTAIN RAIL ROLLING STOCK PROCUREMENTS AND OPERATIONS.

(a) LIMITATION ON CERTAIN RAIL ROLLING STOCK PROCUREMENTS.—Section 5323 of title 49, United States Code, is amended by adding at the end the following:

''(u) LIMITATION ON CERTAIN RAIL ROLLING STOCK PROCUREMENTS.—

''(1) IN GENERAL.—Except as provided in paragraph (5), financial assistance made available under this chapter shall not be used in awarding a contract or subcontract to an entity on or after the date of enactment of this subsection for the procurement of rail rolling stock for use in public transportation if the manufacturer of the rail rolling stock—

''(A) is incorporated in or has manufacturing facilities in the United States; and

''(B) is owned or controlled by, is a subsidiary of, or is otherwise related legally or fi-

nancially to a corporation based in a country that—

"(i) is identified as a nonmarket economy country (as defined in section 771(18) of the Tariff Act of 1930 (19 U.S.C. 1677(18))) as of the date of enactment of this subsection;

"(ii) was identified by the United States Trade Representative in the most recent report required by section 182 of the Trade Act of 1974 (19 U.S.C. 2242) as a priority foreign country under subsection (a)(2) of that section; and

"(iii) is subject to monitoring by the Trade Representative under section 306 of the Trade Act of 1974 (19 U.S.C. 2416).

"(2) EXCEPTION.—For purposes of paragraph (1), the term 'otherwise related legally or financially' does not include a minority relationship or investment.

"(3) INTERNATIONAL AGREEMENTS.—This subsection shall be applied in a manner consistent with the obligations of the United States under international agreements.

"(4) CERTIFICATION FOR RAIL ROLLING STOCK.—

"(A) IN GENERAL.—Except as provided in paragraph (5), as a condition of financial assistance made available in a fiscal year under section 5337, a recipient that operates rail fixed guideway service shall certify in that fiscal year that the recipient will not award any contract or subcontract for the procurement of rail rolling stock for use in public transportation with a rail rolling stock manufacturer described in paragraph (1).

"(B) SEPARATE CERTIFICATION.—The certification required under this paragraph shall be in addition to any certification the Secretary establishes to ensure compliance with the requirements of paragraph (1).

"(5) EXCEPTION.—This subsection, including the certification requirement under paragraph (4), shall not apply to the award of a contract or subcontract made by a public transportation agency with a rail rolling stock manufacturer described in paragraph (1) if the manufacturer and the public transportation agency have a contract for rail rolling

stock that was executed before the date of enactment of this subsection.''.

(b) CYBERSECURITY CERTIFICATION FOR RAIL ROLLING STOCK AND OPERATIONS.—Section 5323 of title 49, United States Code, as amended by subsection (a), is amended by adding at the end the following:

''(v) CYBERSECURITY CERTIFICATION FOR RAIL ROLLING STOCK AND OPERATIONS.—

''(1) CERTIFICATION.—As a condition of financial assistance made available under this chapter, a recipient that operates a rail fixed guideway public transportation system shall certify that the recipient has established a process to develop, maintain, and execute a written plan for identifying and reducing cybersecurity risks.

''(2) COMPLIANCE.—For the process required under paragraph (1), a recipient of assistance under this chapter shall—

''(A) utilize the approach described by the voluntary standards and best practices developed under section 2(c)(15) of the National Institute of Standards and Technology Act (15 U.S.C. 272(c)(15)), as applicable;

''(B) identify hardware and software that the recipient determines should undergo third-

party testing and analysis to mitigate cybersecurity risks, such as hardware or software for rail rolling stock under proposed procurements; and

"(C) utilize the approach described in any voluntary standards and best practices for rail fixed guideway public transportation systems developed under the authority of the Secretary of Homeland Security, as applicable.

"(3) LIMITATIONS ON STATUTORY CONSTRUCTION.—Nothing in this subsection shall be construed to interfere with the authority of—

"(A) the Secretary of Homeland Security to publish or ensure compliance with requirements or standards concerning cybersecurity for rail fixed guideway public transportation systems; or

"(B) the Secretary of Transportation under section 5329 to address cybersecurity issues as those issues relate to the safety of rail fixed guideway public transportation systems.".

SEC. 897. PROHIBITION ON CONTRACTING WITH PERSONS THAT HAVE BUSINESS OPERATIONS WITH THE MADURO REGIME.

(a) PROHIBITION.—Except as provided under subsections (c), (d), and (e), the Department of Defense may not enter into a contract for the procurement of goods or services with any person that has business operations with an authority of the Government of Venezuela that is not recognized as the legitimate Government of Venezuela by the United States Government.

(b) DEFINITIONS.—In this section:

(1) BUSINESS OPERATIONS.—The term ''business operations'' means engaging in commerce in any form, including acquiring, developing, maintaining, owning, selling, possessing, leasing, or operating equipment, facilities, personnel, products, services, personal property, real property, or any other apparatus of business or commerce.

(2) GOVERNMENT OF VENEZUELA.—(A) The term ''Government of Venezuela'' includes the government of any political subdivision of Venezuela, and any agency or instrumentality of the Government of Venezuela.

(B) For purposes of subparagraph (A), the term ''agency or instrumentality of the Government of Venezuela'' means an agency or instrumentality

of a foreign state as defined in section 1603(b) of title 28, United States Code, with each reference in such section to ''a foreign state'' deemed to be a reference to ''Venezuela''.

(3) PERSON.—The term ''person'' means—

(A) a natural person, corporation, company, business association, partnership, society, trust, or any other nongovernmental entity, organization, or group;

(B) any governmental entity or instrumentality of a government, including a multilateral development institution (as defined in section 1701(c)(3) of the International Financial Institutions Act (22 U.S.C. 262r(c)(3))); and

(C) any successor, subunit, parent entity, or subsidiary of, or any entity under common ownership or control with, any entity described in subparagraph (A) or (B).

(c) EXCEPTIONS.—

(1) IN GENERAL.—The prohibition under subsection (a) does not apply to a contract that the Secretary of Defense and the Secretary of State jointly determine—

(A) is necessary—

(i) for purposes of providing humanitarian assistance to the people of Venezuela,

(ii) for purposes of providing disaster relief and other urgent life-saving measures; or

(iii) to carry out noncombatant evacuations; or

(B) is vital to the national security interests of the United States.

(2) NOTIFICATION REQUIREMENT.—The Secretary of Defense shall notify the congressional defense committees, the Committee on Foreign Affairs of the House of Representatives, and the Committee on Foreign Relations of the Senate of any contract entered into on the basis of an exception provided for under paragraph (1).

(d) OFFICE OF FOREIGN ASSETS CONTROL LICENSES.—The prohibition in subsection (a) shall not apply to a person that has a valid license to operate in Venezuela issued by the Office of Foreign Assets Control.

(e) AMERICAN DIPLOMATIC MISSION IN VENEZUELA.—The prohibition in subsection (a) shall not apply to contracts related to the operation and mainte-

nance of the United States Government's consular offices and diplomatic posts in Venezuela.

(f) APPLICABILITY.—This section shall apply with respect to any contract entered into on or after the date of the enactment of this section.

TITLE IX—DEPARTMENT OF DEFENSE ORGANIZATION AND MANAGEMENT

Subtitle A—Office of the Secretary of Defense and Related Matters

SEC. 901. UPDATE OF AUTHORITIES RELATING TO NUCLEAR COMMAND, CONTROL, AND COMMUNICATIONS.

(a) DUTIES AND POWERS OF UNDER SECRETARY OF DEFENSE FOR ACQUISITION AND SUSTAINMENT.—Section 133b(b) of title 10, United States Code, is amended—

(1) by redesignating paragraphs (4), (5), (6), and (7) as paragraphs (5), (6), (7), and (8), respectively;

(2) by inserting after paragraph (3) the following new paragraph (4):

"(4) establishing policies for, and providing oversight, guidance, and coordination for, nuclear command and control systems;"; and

(3) in paragraph (6), as so redesignated, by inserting after ''overseeing the modernization of nuclear forces'' the following: '', including the nuclear command, control, and communications system,''.

(b) CHIEF INFORMATION OFFICER.—Section 142(b)(1) of such title is amended—

(1) by striking subparagraph (G); and

(2) by redesignating subparagraphs (H) and (I) as subparagraphs (G) and (H), respectively.

Subtitle B—Other Department of Defense Organization and Management Matters

SEC. 911. CODIFICATION OF ASSISTANT SECRETARIES FOR ENVIRONMENT, INSTALLATIONS, AND ENERGY OF THE ARMY, NAVY, AND AIR FORCE.

(a) ASSISTANT SECRETARY OF THE ARMY.—Section 7016(b) of title 10, United States Code, is amended by adding at the end the following new paragraph:

''(6)(A) One of the Assistant Secretaries shall be the Assistant Secretary for Installations, Energy, and Environment.

''(B) The principal duty of the Assistant Secretary for Installations, Energy, and Environment shall be the overall supervision of installation, energy, and environment matters for the Department of the Army.''.

(b) ASSISTANT SECRETARY OF THE NAVY.—Section 8016(b) of title 10, United States Code, is amended by adding at the end the following new paragraph:

''(5)(A) One of the Assistant Secretaries shall be the Assistant Secretary for Energy, Installations, and Environment.

''(B) The principal duty of the Assistant Secretary for Energy, Installations, and Environment shall be the overall supervision of installation, energy, and environment matters for the Department of the Navy.''.

(c) ASSISTANT SECRETARY OF THE AIR FORCE.—Section 9016(b) of title 10, United States Code, is amended by adding at the end the following new paragraph:

''(5)(A) One of the Assistant Secretaries shall be the Assistant Secretary for Installations, Environment, and Energy.

''(B) The principal duty of the Assistant Secretary for Installations, Environment, and Energy shall be the overall supervision of installation, energy, and environment matters for the Department of the Air Force.''.

SEC. 912. LIMITATION ON AVAILABILITY OF FUNDS FOR CONSOLIDATION OF DEFENSE MEDIA ACTIVITY.

None of the funds authorized to be appropriated by this Act or otherwise made available for fiscal year 2020

for the Department of Defense may be used to consolidate the Defense Media Activity until a period of 180 days has elapsed following the date of the enactment of this Act.

SEC. 913. MODERNIZATION OF CERTAIN FORMS AND SURVEYS.

(a) STUDY.—The Secretary of Defense shall conduct a study to identify each form and survey of the Department of Defense, in use on the date of the enactment of this Act, that contains a term or classification that the Secretary determines may be considered racially or ethnically insensitive.

(b) REPORTS.—

(1) INTERIM REPORTS.—On the date that is 90 days after the date of the enactment of this Act, and on the date that is 180 days after such date of enactment, the Secretary shall submit to the Committees on Armed Services of the House of Representatives and the Senate a report on the status of the study conducted under subsection (a).

(2) FINAL REPORT.—Not later than one year after the date of the enactment of this Act, the Secretary shall submit to the Committees on Armed Services of the House of Representatives and the Senate a report on the results of the study conducted under subsection (a) that includes—

(A) a list of each form and survey identified under such study; and

(B) a plan for modernizing the terms and classifications contained in such forms and surveys, including legislative recommendations.

(c) MODERNIZATION REQUIRED.—Not later than 18 months after the date of the enactment of this Act, the Secretary shall carry out the plan included in the report submitted under subsection (b).

Subtitle C—Space Matters

PART I—UNITED STATES SPACE CORPS

SEC. 921. ESTABLISHMENT OF UNITED STATES SPACE CORPS IN THE DEPARTMENT OF THE AIR FORCE.

(a) ESTABLISHMENT.—Part I of subtitle D of title 10, United States Code, is amended by adding at the end the following new chapter:

"CHAPTER 909—THE SPACE CORPS

"Sec.
"9091. Establishment of the Space Corps.
"9093. Commandant of the Space Corps.
"9095. Officer career field for space.

"§ 9091. Establishment of the Space Corps

"(a) ESTABLISHMENT.—There is established a United States Space Corps as an armed force within the Department of the Air Force.

1 ''(b) COMPOSITION.—(1) The Space Corps shall be
2 composed of the following:
3 ''(A) The Commandant of the Space Corps.
4 ''(B) The space forces and such assets as may
5 be organic therein.
6 ''(2)(A) The space forces specified in paragraph
7 (1)(B) shall include the personnel and assets of the Air
8 Force transferred to the Space Corps pursuant to the Na-
9 tional Defense Authorization Act for Fiscal Year 2020.
10 ''(B) The space forces specified in paragraph (1)(B)
11 may not include the personnel or assets of the National
12 Reconnaissance Office or the National Geospatial-Intel-
13 ligence Agency. Nothing in this section shall affect the au-
14 thorities, duties, or responsibilities of the Director of the
15 National Reconnaissance Office and the Director of the
16 National Geospatial-Intelligence Agency, including with
17 respect to the authority of each such Director to—
18 ''(i) carry out the research, development, test,
19 and evaluation and procurement of satellites and
20 user satellite terminals of the Defense Agency of the
21 Director;
22 ''(ii) operate such terminals; and
23 ''(iii) develop requirements to ensure that the
24 space programs of the Department of Defense sup-
25 port the mission of the Director.

"(c) FUNCTIONS.—The Space Corps shall be organized, trained, and equipped to provide—

"(1) freedom of operation for the United States in, from, and to space; and

"(2) prompt and sustained space operations.

"(d) DUTIES.—It shall be the duty of the Space Corps to—

"(1) protect the interests of the United States in space;

"(2) deter aggression in, from, and to space; and

"(3) conduct space operations.

"(e) ACQUISITION SYSTEM.—(1) The Secretary of the Air Force may establish a separate, alternative acquisition system for defense space acquisitions, including with respect to procuring space vehicles, ground segments relating to such vehicles, and satellite terminals, pursuant to the plan specified in paragraph (2).

"(2) The Deputy Secretary of Defense shall develop the plan, and submit such plan to the congressional defense committees, under section 1601(b) of the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Public Law 115–232; 132 Stat. 2103).

"(3) The alternative acquisition system under paragraph (1) shall cover defense space acquisitions except

with respect to the National Reconnaissance Office and other elements of the Department of Defense that are elements of the intelligence community (as defined in section 3 of the National Security Act of 1947 (50 U.S.C. 3003)).

"(f) PERSONNEL DEVELOPMENT.—(1) The Secretary may ensure the quality of the members of the Space Corps pursuant to the plan specified in paragraph (2) and section 9095 of this title.

"(2) The Secretary shall develop the plan, and submit such plan to the congressional defense committees, under section 1601(c) of the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Public Law 115–232; 132 Stat. 2103).

"(3) In carrying out paragraph (1), the Secretary shall address the following:

"(A) Managing the career progression of members of the Space Corps and civilian employees of the Space Corps throughout the military or civilian career of the member or the employee, as the case may be, including with respect to—

"(i) defining career professional milestones;

"(ii) pay and incentive structures;

"(iii) the management and oversight of the Space Corps;

"(iv) training relating to planning and executing warfighting missions and operations in space;

"(v) conducting periodic Space Corps-wide professional assessments to determine how the Space Corps is developing as a group; and

"(vi) establishing a centralized method to control personnel assignments and distribution.

"(B) The identification of future space-related career fields that the Secretary determines appropriate, including a space acquisition career field.

"(C) The identification of any overlap that exists among operations and acquisitions career fields to determine opportunities for cross-functional career opportunities.

"§ 9093. Commandant of the Space Corps

"(a) APPOINTMENT.—(1) There is a Commandant of the Space Corps, appointed by the President, by and with the advice and consent of the Senate, from the general officers of the Air Force. The Commandant serves at the pleasure of the President.

"(2) The Commandant shall be appointed for a term of four years. In time of war or during a national emergency declared by Congress, the Commandant may be reappointed for a term of not more than four years.

"(b) GRADE.—The Commandant, while so serving, has the grade of general without vacating the permanent grade of the officer.

"(c) RELATIONSHIP TO THE SECRETARY OF THE AIR FORCE.—Except as otherwise prescribed by law and subject to section 9013(f) of this title, the Commandant performs the duties of such position under the authority, direction, and control of the Secretary of the Air Force and is directly responsible to the Secretary.

"(d) DUTIES.—Subject to the authority, direction, and control of the Secretary of the Air Force, the Commandant shall—

"(1) exercise supervision, consistent with the authority assigned to commanders of unified or specified combatant commands under chapter 6 of this title, over such of the members and organizations of the Space Corps as the Secretary determines; and

"(2) perform such other military duties, not otherwise assigned by law, as are assigned to the Commandant by the President, the Secretary of Defense, or the Secretary of the Air Force.

"(e) JOINT CHIEFS OF STAFF.—(1) The Commandant shall also perform the duties prescribed for the Commandant as a member of the Joint Chiefs of Staff under section 151 of this title.

"(2) To the extent that such action does not impair the independence of the Commandant in the performance of the duties of the Commandant as a member of the Joint Chiefs of Staff, the Commandant shall inform the Secretary of the Air Force regarding military advice rendered by members of the Joint Chiefs of Staff on matters affecting the Department of the Air Force.

"(3) Subject to the authority, direction, and control of the Secretary of Defense, the Commandant shall keep the Secretary of the Air Force fully informed of significant military operations affecting the duties and responsibilities of the Secretary.".

(d) CONFORMING AMENDMENTS.—

(1) JOINT CHIEFS OF STAFF.—

(A) MEMBERSHIP.—Section 151(a) of title 10, United States Code, is amended—

(i) by redesignating paragraph (7) as paragraph (8); and

(ii) by inserting after paragraph (6) the following new paragraph:

"(7) The Commandant of the Space Corps.".

(B) APPOINTMENT.—Section 152(b)(1)(B) of such title is amended by striking "or the Commandant of the Marine Corps" and insert-

ing ''the Commandant of the Marine Corps, or the Commandant of the Space Corps''.

(2) OFFICER CAREERS.—Chapter 907 of such title is amended as follows:

(A) In section 9084, by striking ''officers in the Air Force'' and inserting ''officers in the Space Corps''.

(B) By transferring section 9084, as amended by subparagraph (A), to chapter 909 and redesignating such section as section 9095.

(C) In the table of sections, by striking the item relating to section 9084.

(3) SECRETARY OF THE AIR FORCE.—Section 9013 of such title is amended—

(A) in subsection (f), by inserting ''and Space Corps'' after ''Officers of the Air Force''; and

(B) in subsection (g)(1), by inserting ''and Space Corps'' after ''members of the Air Force''.

(4) DEFINITIONS.—Section 101 of such title is amended—

(A) in subsection (a)—

(i) in paragraph (4), by inserting ''Space Corps,'' after ''Marine Corps,''; and

(ii) in paragraph (9)(C), by inserting ''and the Space Corps'' after ''concerning the Air Force''; and

(B) in subsection (b)—

(i) in paragraph (4), by striking ''or Marine Corps'' and inserting ''Marine Corps, or Space Corps''; and

(ii) in paragraph (13), by striking ''or Marine Corps'' and inserting ''Marine Corps, or Space Corps''.

(e) CLERICAL AMENDMENT.—The table of chapters for part I of subtitle D of title 10, United States Code, is amended by adding at the end the following new item:

''909. The Space Corps''.

SEC. 922. TRANSFER OF PERSONNEL, FUNCTIONS, AND ASSETS TO THE SPACE CORPS.

(a) TRANSFERS.—

(1) TRANSFER OF MILITARY PERSONNEL.—

(A) IN GENERAL.—The Secretary of Defense shall, during the transition period, transfer all covered military personnel to the Space Corps.

(B) RETENTION IN GRADE AND STATUS.—Covered military personnel transferred to the Space Corps pursuant to subparagraph (A) shall retain the grade and date of obtaining such grade that the individual person had before the date of the transfer unless otherwise altered or terminated in accordance with law.

(2) TRANSFER OF FUNCTIONS.—Except as otherwise directed by the Secretary of Defense, all functions, assets, and obligations of the space elements of the Air Force (including all property, records, installations, activities, facilities, agencies, and projects of such elements) shall be transferred to the Space Corps.

(b) CONFORMING REPEAL.—

(1) IN GENERAL.—Chapter 135 of title 10, United States Code, is amended by striking section 2279c.

(2) CLERICAL AMENDMENT.—The table of sections at the beginning of such chapter is amended by striking the item relating to section 2279c.

(3) EFFECTIVE DATE.—The amendments made by paragraphs (1) and (2) shall take effect on the date on which the transition period terminates, as determined by the Secretary of Defense in accord-

ance with subsection (c), which date shall be not later than December 30, 2023.

(c) NOTICE TO CONGRESS.—Not later than 30 days before the date on which the transition period terminates, the Secretary of Defense shall submit to the congressional defense committees a certification that identifies the date on which transition period will terminate.

(d) DEFINITIONS.—In this section:

(1) The term ''covered military personnel'' means commissioned officers and enlisted members of the space elements of the Air Force who are assigned to such elements as of the date on which such officers and members are transferred under subsection (a)(1).

(2) The term ''transition period'' means a period prescribed by the Secretary of Defense that—

(A) begins on January 1, 2021; and

(B) ends not later than December 30, 2023.

SEC. 923. REPORTS ON SPACE CORPS.

(a) REPORT ON STRUCTURE OF SPACE CORPS.—

(1) IN GENERAL.—The Secretary of Defense shall submit to the congressional defense committees a report that includes a detailed plan for the organizational structure of the Space Corps.

(2) ELEMENTS.—The report required under paragraph (1) shall include—

(A) a detailed description of the structure and organizational elements required for the Space Corps to perform its mission;

(B) a detailed description of the organization and staff required to support the Commandant of the Space Corps;

(C) a detailed explanation of how establishment of the Space Corps is expected to affect the composition and function of the space elements of the Armed Forces;

(D) a description of how the Space Corps will be organized, trained, and equipped;

(E) a description of how the Space Corps will exercise acquisition authorities;

(F) a description of how the Space Corps will coordinate with the United States Space Command, the Space Development Agency, and other space elements of the Armed Forces; and

(G) any other matters determined to be appropriate by the Secretary.

(b) REPORT ON MILITARY PERSONNEL.—

(1) IN GENERAL.—The Secretary of Defense shall submit to the congressional defense committees

a report on the military personnel requirements of the Space Corps.

(2) ELEMENTS.—The report required under paragraph (1) shall include—

(A) a detailed plan setting forth—

(i) the proposed military personnel composition and structure of the Space Corps; and

(ii) plans for the transfer or reassignment of military personnel from the space elements of the Armed Forces to the Space Corps;

(B) the number of officer and enlisted personnel to be transferred or reassigned to the Space Corps by functional area;

(C) a detailed description of the billet requirements for the Space Corps, including the staff organizational and rank structure; and

(D) the number of additional officer and enlisted billets that will be required for the Space Corps and a description of such billets.

(c) REPORT ON CIVILIAN PERSONNEL.—

(1) IN GENERAL.—The Secretary of Defense shall submit to the congressional defense committees

a report on the civilian personnel requirements of the Space Corps.

(2) ELEMENTS.—The report required under paragraph (1) shall include—

(A) an assessment of the projected size of the civilian workforce of the Space Corps in fiscal year 2021 and in each fiscal year covered by the most recent future-years defense program submitted to Congress under section 221 of title 10, United States Code;

(B) a detailed explanation of any projected changes to the size of the civilian workforce of the Space Corps from year-to-year; and

(C) a detailed plan for the transfer of civilian personnel from the space elements of the Armed Forces to the Space Corps.

(d) REPORT ON TRANSFER OF FUNCTIONS AND ASSETS.—

(1) IN GENERAL.—The Secretary of Defense shall submit to the congressional defense committees a report that includes a detailed plan for the transfer of the functions, assets, and obligations of the space elements of the Armed Forces (including any property, records, installations, activities, facilities,

agencies, and projects of such elements) to the Space Corps in accordance with section 922.

(2) ELEMENTS.—The report required under paragraph (1) shall include—

(A) a detailed list of the functions and assets to be transferred;

(B) a justification for each transfer proposed to be made under subparagraph (A);

(C) the location and value of each item proposed to be transferred under subparagraph (A); and

(D) the date on which each item is expected to be transferred.

(e) REPORT ON FUNDING REQUIREMENTS.—

(1) IN GENERAL.—The Secretary of Defense shall submit to the congressional defense committees a report on the funding requirements for the Space Corps.

(2) ELEMENTS.—The report required under paragraph (1) shall include a detailed estimate of the funding that will be required to establish the Space Corps and to conduct the activities and operations of the Corps, including estimated expenditures and proposed appropriations for each of fiscal years 2021 through 2025 as follows:

(A) With respect to procurement accounts—

(i) amounts displayed by account, budget activity, line number, line item, and line item title; and

(ii) a description of the requirements for each such amount specific to the Space Corps.

(B) With respect to research, development, test, and evaluation accounts—

(i) amounts displayed by account, budget activity, line number, program element, and program element title; and

(ii) a description of the requirements for each such amount specific to the Space Corps.

(C) With respect to operation and maintenance accounts—

(i) amounts displayed by account title, budget activity title, line number, and subactivity group title; and

(ii) a description of how such amounts will specifically be used.

(D) With respect to military personnel accounts—

(i) amounts displayed by account, budget activity, budget sub-activity, and budget sub-activity title; and

(ii) a description of the requirements for each such amount specific to the Space Corps.

(E) With respect to each project under military construction accounts (including with respect to unspecified minor military construction and amounts for planning and design), the country, location, project title, and project amount by fiscal year.

(F) With respect to any expenditures and proposed appropriations not included the materials submitted under subparagraphs (A) through (E), an explanation with a level of detail equivalent to or greater than the level of detail provided in the future-years defense program submitted to Congress under section 221 of title 10, United States Code.

(3) FORM OF REPORT.—The report required by paragraph (1) shall be submitted in unclassified form, but may include a classified annex.

(f) DEADLINE FOR SUBMITTAL.—Each of the reports required under subsections (a) through (e) shall be sub-

mitted to the congressional defense committees not later than February 1, 2020.

SEC. 924. SPACE NATIONAL GUARD.

The Secretary of Defense may not transfer any personnel or resources from any reserve components, including the National Guard, to the Space Corps established by section 921 until the date on which a Space National Guard of the United States has been established by law.

SEC. 925. EFFECTS ON MILITARY INSTALLATIONS.

Nothing in this part, or the amendments made by this part, shall be construed to authorize or require the relocation of any facility, infrastructure, or military installation of the Air Force.

PART II—OTHER SPACE MATTERS

SEC. 931. UNITED STATES SPACE COMMAND.

(a) RESTORATION OF GENERAL AUTHORITY FOR ESTABLISHMENT OF UNIFIED COMMAND.—

(1) IN GENERAL.—Section 169 of title 10, United States Code, is repealed.

(2) CLERICAL AMENDMENT.—The table of sections at the beginning of chapter 6 of title 10, United States Code, is amended by striking the item relating to section 169.

(b) CONFORMING AMENDMENT.—Section 2273a(d)(3) of title 10, United States Code, is amended

by striking ''The Commander of the United States Strategic Command, acting through the United States Space Command,'' and inserting ''The Commander of the United States Space Command, or, if no such command exists, the Commander of the United States Strategic Command,''.

TITLE X—GENERAL PROVISIONS

Subtitle A—Financial Matters

SEC. 1001. GENERAL TRANSFER AUTHORITY.

(a) AUTHORITY TO TRANSFER AUTHORIZATIONS.—

(1) AUTHORITY.—Upon determination by the Secretary of Defense that such action is necessary in the national interest, the Secretary may transfer amounts of authorizations made available to the Department of Defense in this division for fiscal year 2019 between any such authorizations for that fiscal year (or any subdivisions thereof). Amounts of authorizations so transferred shall be merged with and be available for the same purposes as the authorization to which transferred.

(2) LIMITATION.—Except as provided in paragraph (3), the total amount of authorizations that the Secretary may transfer under the authority of this section may not exceed $1,000,000,000.

(3) EXCEPTION FOR TRANSFERS BETWEEN MILITARY PERSONNEL AUTHORIZATIONS.—A transfer of funds between military personnel authorizations under title IV shall not be counted toward the dollar limitation in paragraph (2).

(b) LIMITATIONS.—The authority provided by subsection (a) to transfer authorizations—

(1) may only be used to provide authority for items that have a higher priority than the items from which authority is transferred; and

(2) may not be used to provide authority for an item that has been denied authorization by Congress.

(c) ADDITIONAL LIMITATION ON TRANSFERS FOR DRUG INTERDICTION AND COUNTER DRUG ACTIVITIES.—The authority provided by subsection (a) may not be used to transfer any amount to Drug Interdiction and Counter Drug Activities, Defense-wide.

(d) EFFECT ON AUTHORIZATION AMOUNTS.—A transfer made from one account to another under the authority of this section shall be deemed to increase the amount authorized for the account to which the amount is transferred by an amount equal to the amount transferred.

(e) NOTICE TO CONGRESS.—The Secretary shall promptly notify Congress of each transfer made under subsection (a).

(f) CERTIFICATION REQUIREMENT.—The authority to transfer any authorization under this section may not be used until the Secretary of Defense and the head of each entity affected by such transfer submits to the congressional defense committees certification in writing that—

(1) the amount transferred will be used for higher priority items, based on unforeseen military requirements, than the items from which authority is transferred; and

(2) the amount transferred will not be used for any item for which funds have been denied authorization by Congress.

SEC. 1002. ADDITIONAL REQUIREMENTS FOR ANNUAL REPORT AND BRIEFING ON FINANCIAL IMPROVEMENT AND AUDIT REMEDIATION PLAN.

Section 240b(b) of title 10, United States Code, is amended—

(1) in paragraph (1)(B)(iv), by adding at the end the following new subclause:

"(IV) A current accounting of the defense business systems of the Department of Defense that will be introduced, replaced, updated, modified, or retired in connection with the audit of the full financial statements of the Department, including a comprehensive roadmap that displays—

"(aa) in-service, retirement, and other pertinent dates for affected defense business systems;

"(bb) current cost-to-complete estimates for each affected system; and

"(cc) dependencies both between the various defense business systems and between the introduction, replacement, update, modification, and retirement of such systems.";

(2) in paragraph (2), by adding at the end the following new sentence: "Such briefing shall also include a description of any updates to the defense business systems roadmap referred to in paragraph (1)(B)(iv)(IV)."; and

(3) by amending paragraph (3) to read as follows:

''(3) DEFINITIONS.—In this subsection:

''(A) The term 'critical capabilities' means the critical capabilities described in the Department of Defense report titled 'Financial Improvement and Audit Readiness (FIAR) Plan Status Report' and dated May 2016.

''(B) The term 'defense business system' has the meaning given such term in section 2222(i)(1)(A) of this title.''.

SEC. 1003. FINANCIAL IMPROVEMENT AND AUDIT REMEDIATION PLAN.

(a) ELEMENTS OF ANNUAL REPORT.—Subsection (b)(1)(B) of section 240b of title 10, United States Code, is amended—

(1) in clause (vii)—

(A) by striking ''or if less than 50 percent of the audit remediation services''; and

(B) by striking ''and audit remediation activities''; and

(2) in clause (viii), by striking ''or if less than 25 percent of the audit remediation services''.

(b) SEMIANNUAL BRIEFINGS.—Subsection (b)(2) of such section is amended by striking ''or audit remediation''.

(c) AUDIT REMEDIATION SERVICES.—Subsection (b) of such section is further amended—

(1) in paragraph (1)(B), by adding at the end the following new clauses:

''(ix) If less than 50 percent of the audit remediation services under contract, as described in the briefing required under paragraph (2)(B), are being performed by individual professionals meeting the qualifications described in subsection (c), a detailed description of the risks associated with the risks of the acquisition strategy of the Department with respect to conducting audit remediation activities and an explanation of how the strategy complies with the policies expressed by Congress.

''(x) If less than 25 percent of the audit remediation services under contract, as described in the briefing required under paragraph (2)(B), are being performed by individual professionals meeting the qualifications described in subsection (c), a

written certification that the staffing ratio complies with commercial best practices and presents no increased risk of delay in the Department's ability to achieve a clean audit opinion.''; and

(2) in paragraph (2)—

(A) by striking ''Not later'' and inserting ''(A) Not later''; and

(B) by adding at the end the following new subparagraph:

''(B) Not later than January 31 and June 30 each year, the Under Secretary of Defense (Comptroller) and the comptrollers of the military departments shall provide a briefing to the congressional defense committees on the status of the corrective action plan. Such briefing shall include both the absolute number and percentage of personnel performing the amount of audit remediation services being performed by professionals meeting the qualifications described in subsection (c).''.

(d) SELECTION OF AUDIT REMEDIATION SERVICES.—Such section is further amended by adding at the end the following new subsection:

''(c) SELECTION OF AUDIT REMEDIATION SERVICES.—The selection of audit remediation service pro-

viders shall be based, among other appropriate criteria, on qualifications, relevant experience, and capacity to develop and implement corrective action plans to address internal control and compliance deficiencies identified during a financial statement or program audit.''.

SEC. 1004. REPORTING REQUIREMENTS RELATING TO DEPARTMENT OF DEFENSE AUDITS.

(a) ANNUAL REPORT.—

(1) IN GENERAL.—Chapter 9A of title 10, United States Code, is amended by adding at the end the following new section:

''§ 240g. Annual report on auditable financial statements

''(a) IN GENERAL.—Not later than January 30 of each year, the Secretary of Defense shall submit to the congressional defense committees a report ranking each of the military departments and Defense Agencies in order of how advanced they are in achieving auditable financial statements as required by law. In preparing the report, the Secretary shall seek to exclude information that is otherwise available in other reports to Congress.

''(b) BOTTOM QUARTILE.—Not later than June 30 of each year, the head of each of the military departments and Defense Agencies that were ranked in the bottom quartile of the report submitted under subsection (a) for

that year shall submit to the congressional defense committees a report that includes the following information for that military department or Defense Agency:

"(1) A description of the material weaknesses of the military department or Defense Agency.

"(2) The underlying causes of such weaknesses.

"(3) A plan for remediating such weaknesses.".

(2) CLERICAL AMENDMENT.—The table of sections at the beginning of such chapter is amended by adding at the end the following new item:

"240g. Annual report on auditable financial statements.".

(b) LIMITATION ON USE OF FUNDS.—Of the amounts authorized to be appropriated or otherwise made available by this Act for travel of persons for the head of a military department or Defense Agency described in subsection (b) of section 240g of title 10, United States Code, as added by subsection (a), for fiscal year 2020, not more than 80 percent may be obligated or expended before the submittal of the report required under that subsection for that military department or Defense Agency.

(c) PLAN FOR ACHIEVING UNMODIFIED AUDIT OPINION ON CONSOLIDATED AUDIT.—

(1) REPORT REQUIRED.—Not later than 90 days after the date of the enactment of this Act, the Secretary of Defense shall submit to the congressional defense committees a report containing the

plan of the Secretary for achieving an unmodified audit opinion of the Department of Defense-wide consolidated audit by not later than five years after the date of the enactment of this Act.

(2) LIMITATION ON USE OF FUNDS.—Of the amounts authorized to be appropriated or otherwise made available by this Act for Operation and Maintenance, Defense-Wide, Office of the Secretary of Defense, for Travel of Persons for fiscal year 2020, not more than 70 percent may be obligated or expended before the date on which the Secretary submits the report required under paragraph (1).

SEC. 1005. ANNUAL BUDGET JUSTIFICATION DISPLAY FOR SERVICE-COMMON AND OTHER SUPPORT AND ENABLING CAPABILITIES FOR SPECIAL OPERATIONS FORCES.

(a) IN GENERAL.—Chapter 9 of title 10, United States Code, is amended by inserting after section 225 the following new section:

"§ 226. Special operations forces: display of service-common and other support and enabling capabilities

''(a) IN GENERAL.—The Secretary shall include, in the budget materials submitted to Congress under section 1105 of title 31 for fiscal year 2021 and any subsequent

fiscal year, a consolidated budget justification display showing service-common and other support and enabling capabilities for special operations forces requested by a military service or Defense Agency. Such budget justification display shall include any amount for service-common or other capability development and acquisition, training, operations, pay, base operations sustainment, and other common services and support.

''(b) SERVICE-COMMON AND OTHER SUPPORT AND ENABLING CAPABILITIES.—In this section, the term 'service-common and other support and enabling capabilities' means capabilities provided in support of special operations that are not reflected in Major Force Program-11 or designated as special operations forces-peculiar.''.

(b) CLERICAL AMENDMENT.—The table of sections at the beginning of such chapter is amended by inserting after the item relating to section 225 the following new item:

''226. Special operations forces: display of service-common programs and activities.''.

SEC. 1006. DETERMINATION OF BUDGETARY EFFECTS.

The budgetary effects of this Act, for the purpose of complying with the Statutory Pay-As-You-Go Act of 2010, shall be determined by reference to the latest statement titled ''Budgetary Effects of PAYGO Legislation'' for this Act, submitted for printing in the Congressional Record

by the Chairman of the House Budget Committee, provided that such statement has been submitted prior to the vote on passage.

SEC. 1007. INDEPENDENT PUBLIC ACCOUNTANT AUDIT OF FINANCIAL SYSTEMS OF THE DEPARTMENT OF DEFENSE.

The Secretary of Defense shall ensure that each major implementation of, or modification to, a financial system of the Department of Defense is reviewed by an independent public accountant to validate that such financial system will meet any applicable Federal requirements.

Subtitle B—Counterdrug Activities

SEC. 1011. MODIFICATION OF AUTHORITY TO PROVIDE SUPPORT TO OTHER AGENCIES FOR COUNTERDRUG ACTIVITIES AND ACTIVITIES TO COUNTER TRANSNATIONAL ORGANIZED CRIME.

(a) TYPES OF SUPPORT.—Paragraph (7) of subsection (b) of section 284 of title 10, United States Code, is amended—

(1) by striking ''and fences''; and

(2) by striking ''to block'' and inserting ''along''.

(b) CONGRESSIONAL NOTIFICATION.—Subsection (h)(1) of such section is amended—

(1) by redesignating subparagraphs (A) and (B) as subparagraphs (B) and (C), respectively; and

(2) by inserting before subparagraph (B), as so redesignated, the following new subparagraph (A):

''(A) In case of support for a purpose described in subsection (b)—

''(i) an identification of the recipient of the support;

''(ii) a description of the support provided;

''(iii) a description of the sources and amounts of funds used to provide such support;

''(iv) a description of the amount of funds obligated to provide such support;

''(v) an assessment of the efficacy and cost-effectiveness of such support in advancing the objectives and strategy of the department or agency to which the support will be provided;

''(vi) any document describing a request for assistance from any other department or agency of the United States and any response to such a request from another department or agency of the United

States to which support will be provided; and

"(vii) in the case of any support for a purpose described under subsection (b)(7), metrics and analysis that establish that an area is a drug smuggling corridor.".

SEC. 1012. TECHNICAL CORRECTION AND EXTENSION OF REPORTING REQUIREMENT REGARDING ENHANCEMENT OF INFORMATION SHARING AND COORDINATION OF MILITARY TRAINING BETWEEN DEPARTMENT OF HOMELAND SECURITY AND DEPARTMENT OF DEFENSE.

Section 1014 of the National Defense Authorization Act for Fiscal Year 2017 (Public Law 114–328) is amended—

(1) by striking "section 371 of title 10, United States Code" each place it appears and inserting "section 271 of title 10, United States Code"; and

(2) in subsection (d)(3) by striking "January 31, 2020" and inserting "December 31, 2022".

SEC. 1013. REPEAL OF SECRETARY OF DEFENSE REVIEW OF CURRICULA AND PROGRAM STRUCTURES OF NATIONAL GUARD COUNTERDRUG SCHOOLS.

Section 901 of the Office of National Drug Control Policy Reauthorization Act of 2006 (Public Law 109–469; 32 U.S.C. 112 note) is amended—

(1) by striking subsection (e); and

(2) by redesignating subsections (f) through (h) as subsections (e) through (g), respectively.

Subtitle C—Naval Vessels and Shipyards

SEC. 1021. TRANSPORTATION BY SEA OF SUPPLIES FOR THE ARMED FORCES AND DEFENSE AGENCIES.

Section 2631 of title 10, United States Code, is amended—

(1) in the first sentence of subsection (a), by inserting ''or for a Defense Agency'' after ''Marine Corps''; and

(2) in subsection (b)—

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

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

''(2) Before entering into a contract for the transportation by sea of fuel products under this section, the Sec-

retary shall provide a minimum variance of three days on the shipment date.''; and

(C) in paragraph (4), as redesignated by subparagraph (A), by striking ''the requirement described in paragraph (1)'' and insert ''a requirement under paragraph (1) or (2)''.

SEC. 1022. USE OF NATIONAL DEFENSE SEALIFT FUND FOR PROCUREMENT OF TWO USED VESSELS.

Pursuant to section 2218(f)(3) of title 10, United States Code, and using amounts authorized to be appropriated for Operation and Maintenance, Navy, for fiscal year 2020, the Secretary of the Navy shall seek to enter into a contract for the procurement of two used vessels.

SEC. 1023. FORMAL SCHOOLHOUSE TRAINING FOR SHIPBOARD SYSTEM PROGRAMS OF RECORD.

(a) IN GENERAL.—The Secretary of the Navy shall ensure that there is a formal schoolhouse available at which training is provided in any shipboard system that is program of record on Navy surface vessels.

(b) TIMLINE FOR IMPLEMENTATION.—

(1) CURRENT PROGRAMS.—In the case of any shipboard system program of record that is in use as of the date of the enactment of this Act for which no formal schoolhouse is available, the Secretary shall ensure that such a schoolhouse is available for

the provision of training in such program by not later than 12 months after the date of the enactment of this Act.

(2) FUTURE PROGRAMS.—In the case of any shipboard system program of record that is first used after the date of the enactment of this Act, the Secretary shall ensure that a formal schoolhouse is established for the provision of training in such program by not later than 12 months after the date on which the shipboard system program of record is first used.

SEC. 1024. REPORT ON SHIPBUILDER TRAINING AND THE DEFENSE INDUSTRIAL BASE.

Not later than 180 days after the date of the enactment of this Act, the Secretary of Defense shall submit to the Committees on Armed Services of the Senate and House of Representatives a report on shipbuilder training and hiring requirements necessary to achieve the Navy's 30-year shipbuilding plan and to maintain the shipbuilding readiness of the defense industrial base. Such report shall include each of the following:

(1) An analysis and estimate of the time and investment required for new shipbuilders to gain proficiency in particular shipbuilding occupational specialties, including detailed information about the

occupational specialty requirements necessary for construction of naval surface ship and submarine classes to be included in the Navy's 30-year shipbuilding plan.

(2) An analysis of the age demographics and occupational experience level (measured in years of experience) of the shipbuilding defense industrial workforce.

(3) An analysis of the potential time and investment challenges associated with developing and retaining shipbuilding skills in organizations that lack intermediate levels of shipbuilding experience.

(4) Recommendations concerning how to address shipbuilder training during periods of demographic transition, including whether emerging technologies, such as augmented reality, may aid in new shipbuilder training.

(5) Recommendations concerning how to encourage young adults to enter the defense shipbuilding industry and to develop the skills necessary to support the shipbuilding defense industrial base.

Subtitle D—Counterterrorism

SEC. 1031. EXTENSION OF AUTHORITY FOR JOINT TASK FORCES TO PROVIDE SUPPORT TO LAW ENFORCEMENT AGENCIES CONDUCTING COUNTER-TERRORISM ACTIVITIES.

(a) EXTENSION.—Subsection (b) of section 1022 of the National Defense Authorization Act for Fiscal Year 2004 (Public Law 108–136; 10 U.S.C. 271 note) is amended by striking ''2020'' and inserting ''2022''.

(b) TECHNICAL CORRECTIONS.—Subsection (e) of such section is amended—

(1) in paragraph (1), by inserting a period at the end; and

(2) by adding at the end the following paragraph (2):

''(2) For purposes of applying the definition of transnational organized crime under paragraph (1) to this section, the term 'illegal means', as it appears in such definition, includes the trafficking of money, human trafficking, illicit financial flows, illegal trade in natural resources and wildlife, trade in illegal drugs and weapons, and other forms of illegal means determined by the Secretary of Defense.''.

SEC. 1032. PROHIBITION ON USE OF FUNDS FOR TRANSFER OR RELEASE OF INDIVIDUALS DETAINED AT UNITED STATES NAVAL STATION, GUANTANAMO BAY, CUBA, TO CERTAIN COUNTRIES.

No amounts authorized to be appropriated or otherwise made available for the Department of Defense may be used during the period beginning on the date of the enactment of this Act and ending on December 31, 2020, to transfer, release, or assist in the transfer or release of any individual detained in the custody or under the control of the Department of Defense at United States Naval Station, Guantanamo Bay, Cuba, to the custody or control of any country, or any entity within such country, as follows:

(1) Libya.

(2) Somalia.

(3) Syria.

(4) Yemen.

(5) Mexico.

(6) Guatemala.

(7) Honduras.

(8) El Salvador.

(9) Venezuela.

(10) Cuba.

(11) Iran.

(12) Russia.

(13) North Korea.

SEC. 1033. PROHIBITION ON USE OF FUNDS FOR TRANSFER TO AND DETENTION OF ADDITIONAL INDIVIDUALS, INCLUDING UNITED STATES CITIZENS, AT UNITED STATES NAVAL STATION, GUANTANAMO BAY, CUBA.

(a) PROHIBITION ON USE OF FUNDS.—No amounts authorized to be appropriated or otherwise made available to the Department of Defense may be used during the period beginning on the date of the enactment of this Act and ending on December 31, 2020, to—

(1) detain or provide assistance relating to the detention of any individual, including any United States citizen, pursuant to the law of war or a proceeding under chapter 47A of title 10, United States Code, at United States Naval Station, Guantanamo Bay, Cuba; or

(2) transfer or provide assistance relating to the transfer of any individual, including any United States citizen, for the purpose of detaining such individual pursuant to the law of war or a proceeding under chapter 47A of title 10, United States Code, at United States Naval Station, Guantanamo Bay, Cuba.

(b) EXCEPTION.—The prohibition in subsection (a) shall not apply to an individual who is or was detained pursuant to the law of war or a Military Commissions Act proceeding on or after May 2, 2018, at United States Naval Station, Guantanamo Bay, Cuba, by the Department of Defense.

(c) DISPOSITION PLAN.—Not later than 60 days after the date of the enactment of this Act, the Attorney General, in consultation with the Secretary of Defense, shall submit to the congressional defense committees a plan identifying a disposition, other than continued law of war detention at United States Naval Station, Guantanamo Bay, Cuba, for each individual detained at United States Naval Station, Guantanamo Bay, Cuba, as of the date of the enactment of this Act.

SEC. 1034. SENSE OF CONGRESS REGARDING THE PROVISION OF MEDICAL CARE TO INDIVIDUALS DETAINED AT UNITED STATES NAVAL STATION, GUANTANAMO BAY, CUBA.

(a) FINDINGS.—Congress makes the following findings:

(1) The individuals detained at United States Naval Station, Guantanamo Bay, Cuba, are aging, and such individuals are increasingly subject to a

number of health conditions exacerbated by age and the circumstances of their cases.

(2) Expeditionary medical treatment of individuals detained at United States Naval Station, Guantanamo Bay, Cuba, is logistically challenging and increasingly costly, especially treatment related to complex ailments that may become exacerbated with age.

(3) Medical care at United States Naval Station, Guantanamo Bay, Cuba, is likely to become an increasing challenge for the United States Government.

(4) Medical challenges at United States Naval Station, Guantanamo Bay, Cuba, also cause difficulties affecting the functions and processes of the military commissions and periodic review boards.

(b) SENSE OF CONGRESS.—It is the sense of Congress that—

(1) the United States has an ongoing obligation to provide medical care to individuals detained at United States Naval Station, Guantanamo Bay, Cuba, meeting appropriate standards of care; and

(2) the Secretary of Defense should take into account the standards of care provided at other relevant facilities, including those administered by the

Federal Bureau of Prisons, in determining the policies of the Department of Defense regarding the provision of medical care to individuals detained at United States Naval Station, Guantanamo Bay, Cuba.

SEC. 1035. INDEPENDENT ASSESSMENT ON GENDER AND COUNTERING VIOLENT EXTREMISM.

(a) IN GENERAL.—The Secretary of Defense shall seek to enter into a contract with a nonprofit entity or a federally funded research and development center independent of the Department of Defense to conduct research and analysis on the intersection of gender and violent extremism and terrorism.

(b) ELEMENTS.—The research and analysis conducted under subsection (a) shall include research and analysis of the following:

(1) The root and proximate causes of women's participation in terrorist and violent extremist organizations.

(2) Ways for the Department of Defense to engage women and girls who are vulnerable to extremist and terrorist behavior.

(3) Ways women and girls can assist the Armed Forces and partner military organizations in identifying individuals of concern.

(4) The intersection of violent extremism and terrorism and the following:

(A) Gender-based violence.

(B) Women's empowerment at the household level, such as property and inheritance rights, bride-price and dowry, and the level of societal sanction for the killing or harming of women.

(C) Adolescent girls' empowerment, such as the level of early, child, and forced marriage, and of girls' access to secondary education.

(5) Best practices for the Armed Forces to support women preventing and countering violent extremism and terrorism.

(6) Any other matters the Secretary of Defense determines to be appropriate.

(c) UTILIZATION.—The Secretary of Defense shall utilize the results of the research conducted under subsection (a) to inform each geographic combatant command's strategy report and individual country strategy reports, where appropriate.

(d) REPORTS.—

(1) REPORT TO SECRETARY.—Not later than one year after the date of the enactment of this Act, the nonprofit entity or federally funded research and

development center with which the Secretary of Defense enters into contract under subsection (a) shall submit to the Secretary of Defense a report that contains the assessment required by subsection (a).

(2) REPORT TO CONGRESS.—Not later than two years after the date of the enactment of this Act, the Secretary of Defense shall submit to the congressional defense committees a report on the results of research conducted under subsection (a).

Subtitle E—Miscellaneous Authorities and Limitations

SEC. 1041. SCHEDULING OF DEPARTMENT OF DEFENSE EXECUTIVE AIRCRAFT CONTROLLED BY SECRETARIES OF MILITARY DEPARTMENTS.

(a) IN GENERAL.—Chapter 2 of title 10, United States Code, is amended by adding at the end the following new section:

"§ 120. Department of Defense executive aircraft controlled by Secretaries of military departments

''(a) IN GENERAL.—The Secretary of Defense shall ensure that the Chief of the Air Force Special Air Mission Office is given the responsibility for scheduling all Department of Defense executive aircraft controlled by the Secretaries of the military departments.

"(b) RESPONSIBILITIES.—(1) The Secretary of each of the military departments shall ensure that there is representation from each of the armed forces within the Air Force Special Air Mission Office to provide for daily management and scheduling of the aircraft controlled by that military department.

"(2) The Secretary of Defense shall be responsible for resolving conflicts and arbitrating the allocation of aircraft based on demand and priority.

"(c) LIMITATIONS.—(1) The Secretary of Defense may not establish a new command and control organization to support aircraft controlled by the Secretary of a military department.

"(2) No aircraft controlled by the Secretary of a military department may be permanently stationed at any location without required users.

"(d) DEFINITIONS.—In this section:

"(1) The term 'required use traveler' has the meaning given such term in Department of Defense directive 4500.56, as in effect on the date of the enactment of this section.

"(2) The term 'executive aircraft' has the meaning given such term in Department of Defense directive 4500.43, as in effect on the date of the enactment of this section.".

(b) CLERICAL AMENDMENT.—The table of sections at the beginning of such chapter is amended by adding at the end the following new item:

"120. Department of Defense executive aircraft controlled by Secretaries of military departments.".

SEC. 1042. EXPLOSIVE ORDNANCE DEFENSE DISPOSAL PROGRAM.

(a) ROLES, RESPONSIBILITIES, AND AUTHORITIES.—Subsection (b) of section 2284 of title 10, United States Code, is amended—

(1) in paragraph (1)—

(A) in subparagraph (B), by inserting "and" after the semicolon;

(B) in subparagraph (C),

(i) by striking "joint program executive officer who" and inserting "training and technology program that";

(ii) by inserting ", provides common individual training," after "explosive ordnance disposal";

(iii) by striking "and procurement";

(iv) by inserting "for common tools" after "activities";

(v) by striking "and combatant commands"; and

(vi) by inserting ''and'' after the semicolon; and

(C) by striking subparagraphs (D) and (E);

(2) in paragraph (2), by striking ''such as weapon systems, manned and unmanned vehicles and platforms, cyber and communication equipment, and the integration of explosive ordnance disposal sets, kits and outfits and explosive ordnance disposal tools, equipment, sets, kits, and outfits developed by the department.'' and inserting ''; and''; and

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

''(3) the Secretary of the Army shall designate an Army explosive ordnance disposal-qualified general officer to serve as the co-chair of the Department of Defense explosive ordnance disposal defense program.''.

(b) DEFINITIONS.—Such section is further amended by adding at the end the following new subsection:

''(d) DEFINITIONS.—In this section:

''(1) The term 'explosive ordnance' has the meaning given such term in section 283(d) of this title.

"(2) The term 'explosive ordnance disposal' means the detection, identification, on-site evaluation, rendering safe, exploitation, recovery, and final disposal of explosive ordnance.".

SEC. 1043. NOTIFICATION ON THE PROVISION OF DEFENSE SENSITIVE SUPPORT.

Section 1055(b) of the National Defense Authorization Act for Fiscal Year 2017 (Public Law 114–328; 10 U.S.C. 113 note) is amended—

(1) in paragraph (2)—

(A) by redesignating subparagraph (C) as subparagraph (E); and

(B) by inserting after subparagraph (B) the following new subparagraphs:

"(C) A description of the required duration of the support.

"(D) A description of the initial costs for the support."; and

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

"(5) SUSTAINMENT COSTS.—If the Secretary determines that sustainment costs will be incurred as a result of the provision of defense sensitive support, the Secretary, not later than 72 hours after the initial provision of such support, shall certify to

the congressional defense committees (and the congressional intelligence committees with respect to matters relating to members of the intelligence community) that such sustainment costs will not interfere with the ability of the Department to execute operations, accomplish mission objectives, and maintain readiness.''.

SEC. 1044. MODIFICATION AND TECHNICAL CORRECTION OF AUTHORITY FOR DEPLOYMENT OF MEMBERS OF THE ARMED FORCES TO THE SOUTHERN LAND BORDER OF THE UNITED STATES.

(a) AUTHORITY.—Subsection (a) of section 1059 of the National Defense Authorization Act for Fiscal Year 2016 (Public Law 114–92; 129 Stat. 986; 10 U.S.C. 271 note prec.) is amended to read as follows:

''(a) AUTHORITY.—

''(1) IN GENERAL.—The Secretary of Defense may provide assistance to United States Customs and Border Protection for purposes of increasing ongoing efforts to secure the southern land border of the United States in accordance with the requirements of this section.

''(2) CERTIFICATION REQUIREMENT.—If the Secretary of Defense provides assistance under para-

graph (1), not later than 30 days before the provision of such assistance, the Secretary shall submit to the Committees on Armed Services of the Senate and House of Representatives certification, in writing, that—

"(A) the provision of the assistance will not negatively affect military training, operations, readiness, or other military requirement, including the readiness of the National Guard and reserve components; and

"(B) the tasks associated with the support provided align with the mission or occupational specialty of any members of the Armed Forces or units of the Armed Forces that are deployed; and

"(C) any task associated with the support is inherently governmental and cannot be performed by a contractor.

"(3) NOTIFICATION REQUIREMENT.—Not later than 30 days before the deployment of any member of the Armed Forces or unit of the Armed Forces to the southern land border of the United States in support United States Customs and Border Protection pursuant to this section or any other provision of law, the Secretary of Defense shall provide to the

Committees on Armed Forces of the Senate and House of Representatives notice of such deployment.''.

(b) SUPPORT.—Subsection (e) of such section is amended—

(1) by striking ''Of the amounts authorized to be appropriated for the Department of Defense by this Act, the'' and inserting ''The'';

(2) by striking ''use up to $75,000,000 to''; and

(3) by inserting ''on a reimbursable basis'' after ''subsection (a)''.

(c) REPORTING REQUIREMENTS.—Subsection (f) of such section is amended to read as follows:

''(f) REPORTS.—

''(1) REPORT REQUIRED.—Not later than 30 days after the date on which any member of the Armed Forces is deployed along the southern land border of the United States at the request of the Secretary of Homeland Security, and every 90 days thereafter until no members are so deployed, the Secretary of Defense shall submit to the Committee on Armed Services and the Committee on Homeland Security and Governmental Affairs of the Senate and the Committee on Armed Services and the Committee on Homeland Security of the House of Rep-

resentatives a report that includes, for both the period covered by the report and the total period of the deployment, each of the following:

"(A) An identification of each unit of the Armed Forces so deployed, including for each such unit—

"(i) the duty station or location to which the unit is assigned;

"(ii) the unit designation;

"(iii) the size of the unit; and

"(iv) whether any personnel in the unit deployed under section 12302 of title 10, United States Code.

"(B) An identification of any training exercises that were planned prior to such deployment that included deployed units and were planned to be executed after the date of the deployment.

"(C) For each unit so deployed, the readiness rating of the unit before deployment and 15 days after the last day of such deployment.

"(D) The projected length of the deployment and any special pay and incentives for which deployed personnel may qualify during the deployment.

"(E) A description of any specific pre-deployment training provided to any individual or unit before being so deployed, including the location and duration of any such training.

"(F) A description of the rules and additional guidance applicable to the deployment, including—

"(i) any special instructions provided to units so deployed prior to deployment;

"(ii) the standing rules for the use of force for deployed personnel; and

"(iii) whether personnel carry assigned weapons and are issued ammunition.

"(G) A description of the life support conditions, including living quarters and food ration cycles, associated with such deployment and associated costs.

"(H) A map indicating the locations where units so deployed are housed.

"(I) A map indicating the locations where units so deployed are conducting their assigned mission and an explanation for the choice of such locations.

"(J) A description of the specific missions and tasks, by location, that are assigned to the members of the Armed Forces who are so deployed.

"(K) The total amount of funds obligated or expended to provide support along the southern border of the United States, including costs associated with personnel (set forth separately from any special pay and allowances), transportation, operations, and any materials used in support of any such deployment or support provided.

"(L) An assessment of the ongoing efficacy and cost-effectiveness of the provision of such assistance, including a comparison to the execution by United States Customs and Border Protection, the strategy and recommendations of the Secretary to address the challenges on the southern border of the United States and to enhance the effectiveness of such assistance, and a plan to transition the functions performed by the members of the Armed Forces pursuant to such assistance.

"(M) The justification of United States Customs and Border Protection determining

each location where the Department of Defense provides support under this section and any actions taken by the Department of Homeland Security to complete the mission or tasks before requesting support from the Department of Defense and determining when support from the Department of Defense is needed, including—

"(i) copies of any relevant documents that describe the factors taken into consideration in requesting support from the Department of Defense;

"(ii) the analysis that informs the placement of members of the Armed Forces along the southern land border of the United States; and

"(iii) any memorandum, including requests for assistance and responses to such requests, shared between the Department of Homeland Security and the Department of Defense regarding the need for the deployment of members of the Armed Forces along the southern land border of the United States.

"(2) FORM OF REPORT.—Each report submitted under this subsection shall be submitted in

unclassified form and without any designation relating to dissemination control, but may include a classified annex.''.

(d) TERMINATION OF AUTHORITY.—Such section is further amended by adding at the end the following new subsection:

''(g) TERMINATION.—The authority under this section shall terminate on September 30, 2023.''.

(e) CLASSIFICATION.—The Law Revision Counsel is directed to place this section in a note following section 284 of title 10, United States Code.

SEC. 1045. LIMITATION ON USE OF FUNDS FOR THE INACTIVATION OF ARMY WATERCRAFT UNITS.

None of the funds authorized to be appropriated by this Act or otherwise made available for fiscal year 2020 may be obligated or expended for the inactivation of any Army watercraft unit until the Secretary of Defense submits to Congress certification that—

(1) the Secretary has completed the Army Watercraft Requirements Review;

(2) the Secretary has entered into a contract with a federally funded research and development corporation for the review of the ability of the Army to meet the watercraft requirements of the combatant commanders; and

(3) the federally funded research and development corporation has completed such review and validated the findings of such review.

SEC. 1046. PROHIBITION ON USE OF FUNDS FOR CONSTRUCTION OF A WALL, FENCE, OR OTHER PHYSICAL BARRIER ALONG THE SOUTHERN BORDER OF THE UNITED STATES.

(a) PROHIBITION.—National defense funds may not be obligated, expended, or otherwise used to design or carry out a project to construct, replace, or modify a wall, fence, or other physical barrier along the international border between the United States and Mexico.

(b) NATIONAL DEFENSE FUNDS DEFINED.—In this section, the term ''national defense funds'' means—

(1) amounts authorized to be appropriated for any purpose in this division or authorized to be appropriated in division A of any National Defense Authorization Act for any of fiscal years 2015 through 2019, including any amounts of such an authorization made available to the Department of Defense and transferred to another authorization by the Secretary of Defense pursuant to transfer authority available to the Secretary; and

(2) funds appropriated in any Act pursuant to an authorization of appropriations described in paragraph (1).

SEC. 1047. EXPENDITURE OF FUNDS FOR DEPARTMENT OF DEFENSE INTELLIGENCE AND COUNTER-INTELLIGENCE ACTIVITIES.

(a) IN GENERAL.—Subject to subsections (b) and (c), the Secretary of Defense may expend amounts made available for the Military Intelligence Program for any of fiscal years 2020 through 2025 for intelligence and counterintelligence activities for any purpose the Secretary determines to be proper with regard to intelligence and counterintelligence objects of a confidential, extraordinary, or emergency nature. Such a determination is final and conclusive upon the accounting officers of the United States.

(b) LIMITATION ON AMOUNT.—The Secretary of Defense may not expend more than five percent of the amounts described in subsection (a) for any fiscal year for objects described in that subsection unless—

(1) the Secretary notifies the congressional defense committees and the congressional intelligence committees of the intent to expend the amounts and purpose of the expenditure; and

(2) 30 days have elapsed from the date on which the Secretary provides the notice described in paragraph (1).

(c) CERTIFICATION.—For each expenditure of funds under this section, the Secretary shall certify that such expenditure was made for an object of a confidential, extraordinary, or emergency nature.

(d) REPORT.—Not later than December 31 of each of 2020 through 2025, the Secretary of Defense shall submit to the congressional defense committees and the congressional intelligence committees a report on expenditures made under this section during the fiscal year preceding the year in which the report is submitted. Each such report shall include, for each expenditure under this section during the fiscal year covered by the report, a description, the purpose, the program element, and the certification required under section (c).

(e) LIMITATION ON DELEGATIONS.—The Secretary of Defense may not delegate the authority under this section with respect to any expenditure in excess of $75,000.

(f) CONGRESSIONAL INTELLIGENCE COMMITTEES DEFINED.—In this section, the term ''congressional intelligence committees'' means—

(1) the Select Committee on Intelligence of the Senate; and

(2) the Permanent Select Committee on Intelligence of the House of Representatives.

SEC. 1048. LIMITATION ON USE OF FUNDS TO HOUSE CHILDREN SEPARATED FROM PARENTS.

(a) IN GENERAL.—None of the amounts authorized to be appropriated by this Act or otherwise made available to the Department of Defense for fiscal year 2020 may be used to house a child separated from a parent.

(b) CHILD SEPARATED FROM A PARENT.—

(1) IN GENERAL.—For purposes of this section, a child shall not be considered to be separated from a parent if the separation is conducted by an agent or officer of Customs and Border Protection at or near a port of entry or within 100 miles of a border of the United States, and one of the following has occurred:

(A) A State court, authorized under State law, terminates the rights of the parent or legal guardian, determines that it is in the best interests of the child to be removed from the parent or legal guardian, in accordance with the Adoption and Safe Families Act of 1997 (Public Law 105–89), or makes any similar determination that is legally authorized under State law.

(B) An official from the State or county child welfare agency with expertise in child trauma and development makes a best interests determination that it is in the best interests of the child to be removed from the parent or legal guardian because the child is in danger of abuse or neglect at the hands of the parent or legal guardian, or is a danger to herself or others.

(C) The separation is authorized based on—

(i) the finding of a chief patrol agent or the area port director in an official and undelegated capacity that—

(I) the child is a victim of trafficking or is at significant risk of becoming a victim of trafficking;

(II) there is a strong likelihood that the adult is not the parent or legal guardian of the child; or

(III) the child is in danger of abuse or neglect at the hands of the parent or legal guardian, or is a danger to themselves or others; and

(ii) the review and reauthorization of the separation by an independent child welfare expert licensed by the State or county in which the child was separated by not later than 48 hours after the initial decision by the Chief Patrol Agent or the Area Port Director.

(2) EFFECT OF FAILURE TO REAUTHORIZE.—In the case of a separation referred to in paragraph (1)(C)(ii), if the child welfare expert does not reauthorize such separation, the child shall be considered separated from a parent for purposes of this subsection.

SEC. 1049. LIMITATION ON USE OF FUNDS FOR PROVIDING HOUSING FOR UNACCOMPANIED ALIEN CHILDREN.

(a) LIMITATION.—None of the funds authorized to be appropriated by this Act or otherwise made available for the Department of Defense may be used to provide assistance to the Department of Health and Human Services for the purpose of providing housing for unaccompanied alien children unless the Secretary of Defense submits to Congress certification that—

(1) the proposed site for the housing meets the standards of the Department of Health and Human

Services, including those provided under the Flores settlement agreement;

(2) identifies any known or potential environmental hazards at or near the proposed site;

(3) describes the actions taken or to be taken to mitigate any such hazard; and

(4) identifies any waivers or exceptions to standards of the Department of Health and Human Services, including the Flores settlement agreement, that have been requested or granted with regard to the site.

(b) DEFINITIONS.—In this section:

(1) The term ''unaccompanied alien children'' has the meaning given such term in section 462 of the Homeland Security Act of 2002 (6 U.S.C. 279)).

(2) The term ''Flores settlement agreement'' means the stipulated settlement agreement filed on January 17, 1997, in the United States District Court for the Central District of California in Flores v. Reno, CV 85–4544–RJK.

Subtitle F—National Defense Strategy Implementation

SEC. 1051. SHORT TITLE.

This subtitle may be cited as the ''National Defense Strategy Implementation Act''.

SEC. 1052. REPORT ON OPERATIONAL CONCEPTS AND PLANS REGARDING STRATEGIC COMPETITORS.

Not later than February 1, 2020, and then biannually thereafter, the Secretary of Defense shall submit to the congressional defense committees a report on the Department of Defense's operational concepts and plans regarding strategic competitors, including on strategically significant matters identified in the National Defense Strategy, that also addresses each of the following:

(1) Ways of employing the force in peace time to effectively deter strategic competitors below the threshold of war while ensuring readiness for potential conflict.

(2) Ways of adapting innovative, operational concepts needed for strategically significant and plausible scenarios related to strategic competitors.

(3) Ways of addressing operational challenges related to achieving the strategic advantage against strategic competitors related to nuclear, space, cyber, conventional, and unconventional means in warfighting doctrine.

(4) The technologies, force developments, posture and capabilities, readiness, infrastructure, organization, personnel, and other elements of the defense program necessary to enable these operational

concepts and its implementation listed in paragraphs (1) through (3).

(5) The ability of the National Security Innovation Base to support the operational concepts listed in paragraphs (1) through (3).

(6) The resources and defense investments necessary to support the operational concepts and its implementation, including budget recommendations.

(7) The risks associated with the operational concepts, including the relationship and tradeoffs between missions, risks, and resources.

(8) Measures and metrics to track the effectiveness of the operational concepts and plans.

SEC. 1053. ACTIONS TO INCREASE ANALYTIC SUPPORT.

(a) IN GENERAL.—The Secretary of Defense shall direct the Under Secretary of Defense for Policy, the Director of the Joint Staff, and the Director of Cost Assessment and Program Evaluation, in consultation with the head of each military service, to jointly develop and implement a plan to strengthen the analytic capabilities, expertise, and processes necessary to meet the National Defense Strategy.

(b) ELEMENTS.—The plan under subsection (a) shall include—

(1) an assessment of the decision support capability of the Department of Defense, specifically the analytic expertise the Department is using to link National Defense Strategy objectives to innovative approaches for meeting future challenges, including winning in conflict and competing effectively against strategic competitors;

(2) an approach for comparing competing analyses and conducting joint analyses for force structure to support senior leaders in implementing the National Defense Strategy;

(3) a determination of the analytic products and support required to implement the National Defense Strategy, including the ability to update these products to reflect current strategy and future threats; and

(4) such other matters as the Secretary of Defense determines to be appropriate.

(c) BRIEFING REQUIRED.—Not later than March 1, 2020, the Secretary of Defense shall provide to the congressional defense committees a briefing on the plan under subsection (a).

SEC. 1054. DEFINITIONS.

In this subtitle:

(1) The term ''operational challenges'' means the principal operational challenges to meeting the defense objectives described in the most recent National Defense Strategy, as such challenges are defined by the Secretary of Defense in guidance issued to the Department of Defense. The guidance issued by the Secretary of under the preceding sentence shall—

(A) specifically identify operational challenges to the Department's principal strategic priorities of competing effectively with strategic competitors; and

(B) be made available in unclassified and publicly accessible form.

(2) The term ''strategic competitors'' means a country labeled as a strategic competitor in the ''Summary of the 2018 National Defense Strategy of the United States of America: Sharpening the American Military's Competitive Edge'' issued by the Department of Defense pursuant to section 113 of title 10, United States Code.

Subtitle G—Studies and Reports

SEC. 1061. REPORT ON TRANSFERS OF EQUIPMENT TO PROHIBITED ENTITIES.

(a) ANNUAL REPORT TO CONGRESS.—

(1) IN GENERAL.—Subchapter VIII of chapter 16 of title 10, United States Code, is amended by adding at the end the following new section:

"§ 387. Annual report on transfers of equipment to prohibited entities

"(a) REPORT REQUIRED.—Not later than March 1, 2021, and each subsequent year, the Secretary of Defense, in coordination with the Secretary of State, shall submit to the appropriate committees of Congress a report on the transfer of defense articles during the year preceding the year during which the report is submitted to—

"(1) any unit committing a gross violation of human rights; or

"(2) any group or organization prohibited from receiving assistance from the United States.

"(b) MATTERS TO BE INCLUDED.—Each report required by subsection (a) shall include the following for the year covered by the report:

"(1) A description of any confirmed instance in which the government of a foreign state that has received defense articles pursuant to a Department of Defense assistance authority has subsequently transferred the equipment to a unit of that foreign state that is prohibited from receiving assistance from the United States by reason of a determination by the

Secretary of State that there is credible evidence that such unit has committed a gross violation of human rights.

''(2) A description of any instance, confirmed or under investigation, in which the government of a foreign state that has received defense articles pursuant to a Department of Defense assistance authority has subsequently transferred the equipment to a group or organization that is prohibited from receiving assistance from the United States.

''(c) APPROPRIATE COMMITTEES OF CONGRESS DEFINED.—In this section, the term 'appropriate committees of Congress' means—

''(1) the Committee on Armed Services and the Committee on Foreign Relations of the Senate; and

''(2) the Committee on Armed Services and the Committee on Foreign Affairs of the House of Representatives.''.

(2) CLERICAL AMENDMENT.—The table of sections at the beginning of such chapter is amended by inserting after the item relating to section 386 the following new item:

''387. Annual report on transfers of equipment to prohibited entities.''.

(b) REPORT TO CONGRESS.—

(1) REPORT REQUIRED.—Not later than March 1, 2020, the Secretary of Defense shall submit to

the appropriate committees of Congress (as such term is defined in section 387 of title 10, United States Code, as added by subsection (a)), a report on the transfer of defense articles during the period beginning on January 1, 2015, and ending on the date of the enactment of this Act to—

(A) any unit committing a gross violation of human rights; or

(B) any group or organization prohibited from receiving assistance from the United States.

(2) MATTERS FOR INCLUSION.—Such report shall include, for such period, each of the following:

(A) A description of any confirmed instance in which the government of a foreign state that has received defense articles pursuant to a Department of Defense assistance authority has subsequently transferred the equipment to a unit of that foreign state that is prohibited from receiving assistance from the United States by reason of a determination by the Secretary of State that there is credible evidence that such unit has committed a gross violation of human rights.

(B) A description of any instance, confirmed or under investigation, in which the government of a foreign state that has received defense articles pursuant to a Department of Defense assistance authority has subsequently transferred the equipment to a group or organization that is prohibited from receiving assistance from the United States.

SEC. 1062. ELIMINATION OF REQUIREMENT TO SUBMIT REPORTS TO CONGRESS IN PAPER FORMAT.

Section 480 of title 10, United States Code, is amended—

(1) in subsection (a), by striking ''a copy of'';

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

(3) by inserting after subsection (b) the following new subsection:

''(c) ELIMINATION OF PAPER SUBMISSION REQUIREMENT.—Whenever the Secretary (or other official) provides a report to Congress (or any committee of either House of Congress) in an electronic medium under subsection (a), the Secretary (or other official) shall not be required to submit an additional copy of the report in a paper format.''.

SEC. 1063. MODIFICATION OF ANNUAL REPORT ON CIVILIAN CASUALTIES IN CONNECTION WITH UNITED STATES MILITARY OPERATIONS.

(a) ADDITIONAL ELEMENT FOR REPORT.—Subsection (b) of section 1057 of the National Defense Authorization Act for Fiscal Year 2018 (Public Law 115–91; 131 Stat. 1572), as amended by section 1062 of the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Public Law 115–232), is amended—

(1) by redesignating paragraphs (5) and (6) as paragraphs (8) and (9), respectively; and

(2) by inserting after paragraph (4) the following new paragraphs:

''(5) A description of any allegations of civilian casualties made by public or non-governmental sources investigated by the Department of Defense.

''(6) An evaluation of the general reasons for any discrepancies between the assessments of the United States and reporting from nongovernmental organizations regarding non-combatant deaths resulting from strikes and operations undertaken by the United States.

''(7) The definitions of 'combatant' and 'non-combatant' used in the preparation of the report.''.

(b) DEFINITION OF NON-COMBATANT.—Such section is further amended—

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

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

''(e) DEFINITION OF NON-COMBATANT.—For purposes of the preparation of a report under this section, the Secretary of Defense shall define the term 'non-combatant'. Such definition shall—

''(1) be consistent with the laws of war; and

''(2) provide that a male of military age shall not be determined to be a combatant solely on the basis of proximity to a strike or nonstrike kinetic operation, or the intended target of such an operation.''.

(c) EXTENSION.—Subsection (f) of such section, as so redesignated, is amended by striking ''five years'' and inserting ''ten years''.

(d) CLASSIFICATION.—The Law Revision Counsel is directed to place this section in a note following section 113 of title 10, United States Code.

SEC. 1064. INCLUSION OF CERTAIN INDIVIDUALS INVESTIGATED BY INSPECTORS GENERAL IN THE SEMIANNUAL REPORT.

Section 5(a) of the Inspector General Act of 1978 (5 U.S.C. App.) is amended—

(1) in paragraph (21), by striking ''; and'' at the end and inserting a semicolon;

(2) in paragraph (22), by striking the period at the end and inserting ''; and''; and

(3) by inserting after paragraph (22) the following new paragraph:

''(23) the name of each individual who is the subject of an investigation if the individual was an officer in the grade of O-7 and above, including officers who have been selected for promotion to O-7, or a civilian member of the Senior Executive Service.''.

SEC. 1065. ANNUAL REPORT ON JOINT MILITARY INFORMATION SUPPORT OPERATIONS WEB OPERATIONS CENTER.

(a) IN GENERAL.—Not later than March 1 of 2020, and each subsequent year until the termination date specified in subsection (c), the Commander of United States Special Operations Command shall submit to the congressional defense committees a report on the activities of the Joint Military Information Support Operations Web Operations Center (hereinafter referred to as the ''JMWC'') during the most recently concluded fiscal year.

(b) CONTENTS OF REPORT.—The report required by subsection (a) shall include each of the following, for the fiscal year covered by the report:

(1) Definitions of initial operating capability and full operational capability as such terms relate to the JMWC.

(2) A detailed description of all activities conducted toward achieving initial operating capability and full operational capability of the JMWC.

(3) A list of all associated funding requested for each program element for achieving initial operating capability and full operational capability.

(4) A detailed description of validated doctrine, organization, training, materiel, leadership and education, personnel, facilities, and policy requirements relating to establishment of the JMWC.

(5) A description of current JMWC capabilities, including information technology infrastructure and contractual arrangements.

(6) A list of all physical locations hosting JMWC capabilities.

(7) The number of military, contractor, and civilian personnel associated with the JMWC and any affiliated agency, service, or other Department of Defense entity.

(8) A description of the JMWC personnel organizational structure.

(9) An identification of inherently governmental functions relating to administration of the JMWC and execution of Military Information Support Operations (hereinafter referred to as ''MISO)'' programs hosted by the JMWC.

(10) A detailed description of frameworks, metrics, and capabilities established to measure the effectiveness of MISO programs hosted by the JMWC.

(11) A list of all associated funding requested by program element from each of the geographic combatant commanders for MISO programs hosted by the JMWC and a description of such MISO activities.

(12) An assessment of the effectiveness of MISO programs hosted by the JMWC.

(13) A description of efforts and activities conducted to share best practices and leverage lessons learned across the Department of Defense relating to MISO programs hosted by the JMWC, as well as a description of such best practices and lessons learned.

(14) An identification of liaisons and detailees to the JMWC from agencies and elements of the Department of Defense.

(15) Activities and efforts conducted to synchronize and deconflict MISO programs within the Department of Defense and with interagency and international partners related to strategic communications, as appropriate.

(16) Such other information as the Commander determines appropriate.

(c) TERMINATION.—The requirement to submit a report under this section shall terminate on January 1, 2025.

SEC. 1066. MOBILITY CAPABILITY REQUIREMENTS STUDY.

(a) IN GENERAL.—The Commander of the United States Transportation Command, in coordination with the Chairman of the Joint Chiefs of Staff and the Secretaries of the military departments, shall conduct a study of the end-to-end, full-spectrum mobility requirements to fulfill the national defense strategy required by section 113(g) of title 10, United States Code, for 2018. Such study shall be completed not later than January 1, 2021.

(b) ELEMENTS OF STUDY.—The study required under subsection (a) shall include each of the following:

(1) An assessment of the ability of the programmed airlift aircraft, tanker aircraft, sealift ships, and key mobility enablers to meet the integrated mobility requirements in expected strategic

environments, as defined by the guidance in such national defense strategy.

(2) An identification, quantification, and description of the associated risk-to-mission (as defined by Chairman of the Joint Chiefs of Staff Manual 3105.01, Joint Risk Analysis) required to fulfill such strategy, including—

(A) as assessment of risk-to-mission associated with achieving strategic and operational objectives using the programmed airlift aircraft, tanker aircraft, sealift ships, and key mobility enablers; and

(B) a description of the combinations of airlift aircraft, tanker aircraft, sealift ships, and key mobility enabler requirements and capabilities that provide low, moderate, significant, and high levels of risk-to-mission to fulfill such strategy.

(3) An identification of any mobility capability gaps, shortfalls, overlaps, or excesses, including—

(A) an assessment of associated risks with respect to the ability to conduct operations; and

(B) recommended mitigation strategies where possible.

(4) The articulation of all key assumptions and decisions made and excursions examined in conducting the study with respect to—

(A) risk;

(B) programmed forces and infrastructure;

(C) the availability of commercial airlift and sealift capabilities and resources, when applicable;

(D) aircraft usage rates, aircraft mission availability rates, aircraft mission capability rates, aircrew ratios, aircrew production, and aircrew readiness rates;

(E) readiness, crewing, and activation rates for sealift ships;

(F) prepositioning, forward stationing, seabasing, engineering, and infrastructure;

(G) demand signals used to represent missions described in the national defense strategy for 2018, in competition and wartime;

(H) concurrency and global integration of demand signals;

(I) integrated global presence and basing strategy;

(J) host nation or third-country support;

(K) adversary actions to degrade and disrupt United States mobility operations;

(L) aircraft being used for training or undergoing depot maintenance or modernization or ships undergoing depot maintenance;

(M) mobility enabling forces availability, readiness, and use;

(N) logistics concept of operations, including any support concepts, methods, combat support forces, and combat service support forces that are required to enable the projection and enduring support to forces both deployed and in combat for each analytic scenario;

(O) anticipated attrition rates for the assessed force structure; and

(P) such other matters as the Commander determines appropriate.

(5) Such other elements as the Commander determines appropriate.

(c) REPORTS AND BRIEFINGS.—

(1) INTERIM REPORT AND BRIEFING.—Not later than June 1, 2020, the Commander of the United States Transportation Command, in coordination with the Chairman of the Joint Chiefs of

Staff and the Secretaries of the military departments, shall—

(A) submit to the Committee on Armed Services of the House of Representatives an interim report on the study; and

(B) provide to such Committee a briefing on the report.

(2) FINAL REPORT AND BRIEFING.—Not later than January 1, 2021, the Commander of the United States Transportation Command, in coordination with the Chairman of the Joint Chiefs of Staff and the Secretaries of the military departments, shall—

(A) submit to the Committee on Armed Services of the House of Representatives a final report on the study; and

(B) provide to such Committee a briefing on the report.

(3) FORM OF REPORTS.—The reports required by paragraphs (1) and (2) shall be submitted in unclassified form, but may include a classified annex.

(d) DEFINITION OF SEALIFT SHIP.—In this section, the term ''sealift ship'' includes surge sealift vessels, tanker vessels, and non-governmental vessels incorporated as part of the maritime logistics enterprise.

SEC. 1067. ASSESSMENT OF SPECIAL OPERATIONS FORCE STRUCTURE.

(a) ASSESSMENT.—

(1) IN GENERAL.—The Secretary of Defense shall enter into an agreement with a federally funded research and development center for the conduct of an independent assessment of the force structure and roles and responsibilities of special operations forces.

(2) SUBMISSION TO CONGRESS.—Not later than July 1, 2020, the Secretary shall submit to the congressional defense committees the results of the assessment required under paragraph (1).

(3) FORM.—The assessment required under paragraph (1) shall be submitted in unclassified form, but may contain a classified annex.

(b) MATTERS TO BE CONSIDERED.—In performing the assessment under this section, the federally funded research and development center shall consider the following matters:

(1) The most recent national defense strategy under section 113(g) of title 10, United States Code.

(2) Special operations activities, as described in section 167(k) of title 10, United States Code.

(3) Potential future national security threats to the United States.

(4) Ongoing counterterrorism and contingency operations of the United States.

(5) The demand for special operations forces by geographic combatant commanders for security cooperation, exercises, and other missions that could be executed by conventional forces.

(6) Other government and non-government analyses that would contribute to the assessment through variations in study assumptions or potential scenarios.

(7) The role of emerging technology on special operations forces.

(8) Opportunities for reduced operation and sustainment costs of special operations.

(9) Current and projected capabilities of other United States Armed Forces that could affect force structure capability and capacity requirements of special operations forces.

(10) The process by which United States Special Operations Command determines force size and structure.

(11) The readiness of special operations forces for assigned missions and future conflicts.

(12) The adequacy of special operations force structure for meeting the goals of the National Mili-

tary Strategy under section 153(b) of title 10, United States Code.

(13) Any other matters deemed relevant.

(c) ASSESSMENT RESULTS.—The results of the assessment under this section shall include each of the following:

(1) Considerations and recommendations for improving the readiness of special operations forces and alternative force structure options.

(2) Legislative recommendations with respect to section 167 of title 10, United States Code, and other relevant provisions of law.

(3) The views of United States Special Operations Command on the assessment.

SEC. 1068. ARMY AVIATION STRATEGIC PLAN AND MODERNIZATION ROADMAP.

(a) STRATEGIC PLAN AND MODERNIZATION ROADMAP.—

(1) IN GENERAL.—The Secretary of the Army shall develop a comprehensive strategic plan for Army aviation, which shall be designed to—

(A) ensure the alignment between requirements, both current and future, and Army budget submissions to meet such requirements; and

(B) inform the preparation of future defense program and budget requests by the Secretary, and the consideration of such requests by Congress.

(2) ELEMENTS.—The plan required by paragraph (1) shall include the following:

(A) An assessment of all missions for Army aviation, both current missions and those missions necessary to support the national defense strategy and the U.S. Army in Multi-Domain Operations 2028 concept.

(B) An analysis of platforms, capabilities, and capacities necessary to fulfill such current and future Army aviation missions.

(C) The required life cycle budget associated with each platform, capability, and capacity requirement for both current and future requirements.

(D) An analysis showing operational, budget, and schedule trade-offs between sustainment of currently fielded capabilities, modernization of currently fielded capabilities, and development and production of new capabilities.

(b) REPORT TO CONGRESS.—Not later than March 30, 2020, the Secretary of the Army shall submit to the congressional defense committees a report containing—

(1) the comprehensive strategic plan required by subsection (a); and

(2) a sustainment and modernization plan for carrying out such strategic plan through fiscal year 2028.

SEC. 1069. REPORT ON GROUND-BASED LONG-RANGE ARTILLERY TO COUNTER LAND AND MARITIME THREATS.

(a) IN GENERAL.—Not later than March 1, 2020, the Secretary of Defense shall submit to the Committees on Armed Services of the Senate and House of Representatives a report on the efforts by the Army and Marine Corps to develop and deploy ground-based long-range rocket and cannon artillery to counter land and maritime threats.

(b) ELEMENTS.—The report required by subsection (a) shall include each of the following:

(1) An assessment of ongoing and future Army and Marine Corps efforts to develop and deploy ground-based long-range rocket and cannon artillery to counter land and maritime fires in the areas of

operations of United States Indo-Pacific Command and United States European Command.

(2) An assessment of and recommendations for how the Department of Defense can improve the development and deployment of such artillery.

(3) An analysis and assessment of how such artillery employed in support of the Armed Forces of the United States and allied forces would be deployed, positioned, and controlled to operate effectively against potential adversaries throughout the depth of their tactical, operational, and strategic formations, including any recommendations of the Secretary regarding how such support could be enhanced.

(c) FORM OF REPORT.—The report required by subsection (a) shall be submitted in unclassified form, but may contain a classified annex.

SEC. 1070. INDEPENDENT REVIEW OF TRANSPORTATION WORKING-CAPITAL FUND.

(a) IN GENERAL.—Not later than 30 days after the date of the enactment of this Act, the Secretary of Defense, in coordination with the Secretary of each of the military departments, shall enter into a contract with a federally funded research and development center for the conduct of an independent review of the transportation

working-capital fund (hereinafter referred to as the ''TWCF'') of the United States Transportation Command.

(b) MATTERS FOR INCLUSION.—The review conducted under subsection (a) shall include each of the following:

(1) The viability of the TWCF as it is structured as of the date of the enactment of this Act.

(2) An assessment of any instances in which excess TWCF funds were used for procurement or modernization efforts that would not otherwise have been funded using amounts made available for operation and maintenance.

(3) Recommendations for how the TWCF could be restructured in order to make the fund more effective and efficient.

(4) Potential alternative funding mechanisms for certain components of the TWCF, including the channel system.

(5) Any other matters the Secretaries jointly determine appropriate.

(c) REPORT.—Not later than March 1, 2021, the Secretary of Defense and the Secretary of each of the military departments shall jointly submit the to the congressional defense committees a copy of the review conducted under subsection (a).

SEC. 1071. GEOGRAPHIC COMMAND RISK ASSESSMENT OF PROPOSED USE OF CERTAIN AIRCRAFT CAPABILITIES.

(a) IN GENERAL.—Not later than March 31, 2020, each commander of a geographic combatant command shall submit to the congressional defense committees a report containing an assessment of the level of operational risk to that command posed by the plans of the Department of the Navy and Department of the Air Force to provide a mix of fifth generation and advanced fourth generation tactical aircraft capabilities to meet contingency and steady-state operational requirements against adversaries in support of the objectives of the 2018 national defense strategy.

(b) ASSESSMENT OF RISK.—In assessing levels of operational risk under subsection (a), a commander shall use the military risk matrix of the Chairman of the Joint Chiefs of Staff, as described in CJCS Instruction 3401.01E.

(c) GEOGRAPHIC COMBATANT COMMAND.—In this section, the term ''geographic combatant command'' means each of the following:

(1) United States European Command.

(2) United States Indo-Pacific Command.

(3) United States Africa Command.

(4) United States Southern Command.

(5) United States Northern Command.

(6) United States Central Command.

SEC. 1072. ANNUAL REPORT ON STRIKES UNDERTAKEN BY THE UNITED STATES AGAINST TERRORIST TARGETS OUTSIDE AREAS OF ACTIVE HOSTILITIES.

(a) ANNUAL REPORT.—Not later than May 1 of each year, the Secretary of Defense shall submit to Congress a report on the number of strikes undertaken by the United States against terrorist targets outside areas of active hostilities during the preceding calendar year, as well as assessments of combatant and non-combatant deaths resulting from those strikes.

(b) CONTENTS OF REPORT.—The report required by subsection (a) shall include—

(1) information obtained from relevant agencies regarding the general sources of information and methodology used to conduct the assessments of combatant and non-combatant deaths;

(2) to the extent feasible and appropriate, the general reasons for discrepancies between post-strike assessments from the United States and credible reporting from nongovernmental organizations regarding non-combatant deaths resulting from strikes un-

dertaken by the United States against terrorist targets outside areas of active hostilities.

(c) REVIEW OF POST-STRIKE REPORTING.—In preparing a report under this section, the Secretary shall review relevant and credible post-strike all-source reporting, including such information from nongovernmental sources, for the purpose of ensuring that this reporting is available to and considered by relevant agencies in their assessment of deaths.

(d) FORM OF REPORT.—The report required under subsection (a) shall be submitted in unclassified form, but may include a classified annex.

SEC. 1073. TERMINATION OF REQUIREMENT FOR SUBMITTAL TO CONGRESS OF CERTAIN RECURRING REPORTS.

(a) TERMINATION.—Effective on December 30, 2021, each report described in subsection (b) that is still required to be submitted to Congress as of such effective date shall no longer be required to be submitted to Congress.

(b) COVERED REPORTS.—A report described in this subsection is a recurring report that is required to be submitted to Congress by the Department of Defense, or by any officer, official, component, or element of the Depart-

ment, by any annual national defense authorization Act enacted on or after December 30, 2016.

SEC. 1074. REPORT ON OPERATIONAL CONCEPTS AND PLANS REGARDING STRATEGIC COMPETITORS.

Not later than February 1, 2020, and then biannually thereafter, the Secretary of Defense shall submit to the congressional defense committees a report on the Department of Defense's operational concepts and plans regarding strategic competitors, including on strategically significant matters identified in the National Defense Strategy, that also addresses each of the following:

(1) Ways of employing the force in peace time to effectively deter strategic competitors below the threshold of war while ensuring readiness for potential conflict.

(2) Ways of adapting innovative, operational concepts needed for strategically significant and plausible scenarios related to strategic competitors.

(3) Ways of addressing operational challenges related to achieving the strategic advantage against strategic competitors related to nuclear, space, cyber, conventional, and unconventional means in warfighting doctrine.

(4) The technologies, force developments, posture and capabilities, readiness, infrastructure, organization, personnel, and other elements of the defense program necessary to enable these operational concepts and its implementation listed in paragraphs (1) through (3).

(5) The ability of the National Security Innovation Base to support the operational concepts listed in paragraphs (1) through (3).

(6) The resources and defense investments necessary to support the operational concepts and its implementation, including budget recommendations.

(7) The risks associated with the operational concepts, including the relationship and tradeoffs between missions, risks, and resources.

(8) Measures and metrics to track the effectiveness of the operational concepts and plans.

Subtitle H—Other Matters

SEC. 1081. TECHNICAL, CONFORMING, AND CLERICAL AMENDMENTS.

(a) TITLE 10, UNITED STATES CODE.—Title 10, United States Code, is amended as follows:

(1) The table of chapters at the beginning of subtitle A, and at the beginning of part I of such

subtitle, are each amended by striking the item relating to chapter 9A and inserting the following:

"9A. Audit ..... 240a".

(2) The table of chapters at the beginning of subtitle A, and at the beginning of part I of such subtitle, are each amended by striking the item relating to chapter 112 and inserting the following:

"112. Cyber Scholarship Program ..... 2200".

(3) Section 113(j)(1) is amended by inserting ''the'' before ''congressional defense committees''.

(4) Section 119a is amended in each of the subsection headings for subsections (a) and (b) by striking ''AACMS'' and inserting ''ACCMS''.

(5) Section 127(c)(1) is amended by inserting ''the'' before ''congressional defense committees''.

(6) Section 130i is amended—

(A) in subsection (i)(1), by inserting ''(C)'' after ''(j)(3)''; and

(B) in subsection (j)(6), by striking ''40101'' and inserting ''44802''.

(7) Section 131(b)(8) is amended by redesignating subparagraph (I) as subparagraph (F).

(8) Section 132 is amended by redesignating subsection (e) as subsection (d).

(9) The item relating to section 169 in the table of sections at the beginning of chapter 6 is amended by inserting a period after ''Command''.

(10) The item relating to section 183a in the table of sections at the beginning of chapter 7 is amended to read as follows:

''183a. Military Aviation and Installation Assurance Clearinghouse for review of mission obstructions.''.

(11) Section 222a(d)(3)(A) is amended by inserting ''had'' before ''been''.

(12) Section 222b(a) is amended by striking ''United States Code,''.

(13) Section 284 is amended—

(A) by striking ''section 376'' both places it appears and inserting ''section 276'';

(B) in subsection (f), by inserting ''(''' after ''Stat. 1564)'';

(C) in subsection (g)(2), by striking ''section 375'' and inserting ''section 275''; and

(D) in subsection (h)(1)(A)(vi)(VI) by striking ''section 1004 of the National Defense Authorization Act for Fiscal Year 1991 (10 U.S.C. 374 note) and''.

(14) Section 240b(b)(1)(B)(i) is amended by striking ''section 253a'' and inserting ''section 240c''.

(15) The table of sections at the beginning of subchapter V of chapter 16 is amended by striking ''Sec.'' after the item relating to section 350.

(16) Section 341(e)(2)(A) is amended by adding a period at the end.

(17) Section 526(k) is amended by inserting ''the'' before ''number of general officers''.

(18) Section 649j is amended by striking ''(a) IN GENERAL.–The'' and inserting ''The''.

(19) Section 651(a) is amended by inserting ''shall serve'' after ''(50 U.S.C. 3806(d)(1))''.

(20) The heading of section 928b (article 128b of the Uniform Code of Military Justice) is amended to read as follows:

''§ 928b. Art. 128b. Domestic violence''.

(21) Section 1034(b)(1)(B)(ii) is amended by striking ''subsection (i)'' and inserting ''subsection (j)'';

(22) Section 1073c(a) is amended by redesignating the second paragraph (4) as paragraph (6).

(23) Section 1074g(b) is amended by striking ''under subsection (h)'' and inserting ''under subsection (i)''.

(24) Section 1075(d)(1) is amended in the table by striking ''25% of out of network'' and inserting ''25% out of network''.

(25) Section 1076d(d)(1) is amended by striking ''section 1075 of this section'' and inserting ''section 1075 of this title''.

(26) Section 1076e(d)(1) is amended by striking ''section 1075 of this section'' and inserting ''section 1075 of this title''.

(27) Section 1142(c)(3) is amended by striking ''paragraph (2)(B)'' and inserting ''paragraph (2)(C)''.

(28) Section 1762(c) is amended by striking ''in at any one time'' and inserting ''at any one time in''.

(29) Section 1788a is amended in subsection (d)(1) by striking ''Not later than March 1, 2019, and each March 1 thereafter'' and inserting ''Not later than March 1 each year''.

(30) Section 2208(u) is amended by inserting ''of this title'' after ''2805'' each place it appears.

(31) Section 2216(b)(1) is amended by striking ''subsection (c)(1)(B)(iii)'' and inserting ''subsection (c)(1)(B)(ii)''.

(32) Section 2222(i)(11) is amended by striking ''subsection (a)(6)(A)'' and inserting ''subsection (e)(6)(A)''.

(33) Section 2228(a)(2) is amended by striking the second period at the end.

(34) The item relating to section 2229b in the table of sections at the beginning of chapter 131 is amended to read as follows:

''2229b. Comptroller General assessment of acquisition programs and initiatives.''.

(35) Section 2273(b)(1) is amended by inserting a semicolon at the end.

(36) The heading for section 2279d is amended by striking the period at the end.

(37) The heading of section 2284, as added by section 311(a) of the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Public Law 115–232; 132 Stat. 1708), is amended to read as follows:

''§ 2284. Explosive ordnance disposal defense program''.

(38) Section 2304(f)(1)(B) is amended—

(A) in clause (ii), by striking ''paragraph (6)(A)'' and inserting ''paragraph (5)(A)''; and

(B) in clause (iii), by striking ''paragraph (6)(B)'' and inserting ''paragraph (5)(B)''.

(39) Section 2305a(d)(1) is amended by striking ''a indefinite'' and inserting ''an indefinite''.

(40)(A) Section 2304e is amended by striking the last four words of the section heading.

(B) Section 2323a is amended—

(i) in the section heading, by striking the last six words; and

(ii) in subsection (e)—

(I) in paragraph (1), by striking ''102 Stat. 2468;'';

(II) in paragraph (2), by striking ''(25 U.S.C. 450b(d))'' and inserting ''(25 U.S.C. 5304(d))''; and

(III) in paragraph (3), by striking ''(25 U.S.C. 450b(e))'' and inserting ''(25 U.S.C. 5304(e))''.

(C) The table of sections at the beginning of chapter 137 is amended by striking the last four words of the item relating to section 2304e and the last six words of the item relating to section 2323a.

(41) Section 2307(a) is amended by striking ''may'' and inserting ''may—''.

(42) Section 2313b(d) is amended by striking ''an task order'' both places it appears and inserting ''a task order''.

(43) Section 2329(g)(1) is amended by striking ''bridge contact'' and inserting ''bridge contract''.

(44) Section 2339a(e)(5) is amended by striking ''section 3542(b)'' and inserting ''section 3552(b)(6)''.

(45) Section 2366a(c)(1)(F) is amended by striking ''section 2366a(b)(6) of this title'' and inserting ''subsection (b)(6)''.

(46) Section 2371b(d)(1)(C) is amended by striking ''other than'' after ''sources''.

(47) Section 2380B is amended—

(A) by inserting ''section'' before ''2376(1) of this title''; and

(B) by striking ''purposed of'' and inserting ''purposes of''.

(48) Section 2401(e)(2) is amended by striking ''subsection (f)'' and inserting ''subsection (g)''.

(49) Section 2417(a)(2) is amended by striking ''of eligible entities'' and all that follows through ''for meetings'' and inserting the following: ''of eligible entities—

''(A) for meetings''.

(50) The item relating to section 2439 in the table of sections at the beginning of chapter 144 is amended to read as follows:

"2439. Negotiation of price for technical data before development, production, or sustainment of major weapon systems.".

(51) The item relating to subchapter II in the table of subchapters for chapter 144B is amended to read as follows:

"II. Development, Prototyping, and Deployment of Weapon System Components or Technology ..... 2447a".

(52) Section 2447a(a) is amended by striking "after fiscal year 2017".

(53) Section 2547(b)(2) is amended—

(A) by striking "material" and inserting "materiel"; and

(B) by striking "Material" both places it appears and inserting "Materiel".

(54) Section 2802(e)(1) is amended by striking "shall comply with" and inserting "shall—

"(A) comply with".

(55) Section 2804(b) is amended—

(A) in the second sentence—

(i) by striking "(1)" and "(2)"; and

(ii) by striking "project and" and inserting "project,"; and

(B) in the third sentence, by striking ''; and''.

(56) Section 2805(d)(1)(B) is amended by inserting ''under'' after ''made available''.

(57) Section 2835a(c) is amended by striking ''(1) The Secretary'' and inserting ''The Secretary''.

(58) Section 2879(a)(2)(A) is amended by striking the comma after ''2017''.

(59) Section 2913(c) is amended by striking ''government a gas or electric utility'' and inserting ''government gas or electric utility''.

(60) The item relating to section 2914 in the table of sections at the beginning of chapter 173 is amended to read as follows:

''2914. Energy resilience and conservation construction projects.''.

(61)(A) The heading of section 8749, as amended by section 1114(b)(2) and redesignated by section 807(d)(6) of the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Public Law 115–232), is amended by capitalizing the initial letter of the fifth, sixth, and seventh words and the initial letter of the last two words.

(B) The heading of section 8749a, as added by section 1114(a) and redesignated by section 8(d)(6) of the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Public Law 115–

232), is amended by capitalizing the initial letter of the fifth, sixth, and seventh words.

(62) Section 9069(a) is amended by striking ''are'' and inserting ''is''.

(63) Section 10217(e)(4) is amended by striking ''shall an individual'' and inserting ''shall be an individual''.

(64) The item relating to section 2568a in the table of sections at the beginning of chapter 152 is amended to read as follows:

''2568a. Damaged personal protective equipment: award to members separating from the armed forces and veterans.''.

(b) NDAA FOR FISCAL YEAR 2019.—Effective as of August 13, 2018, and as if included therein as enacted, the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Public Law 115–232) is amended as follows:

(1) Section 331(g)(2) (132 Stat. 1724) is amended by inserting ''of such title'' after ''chapter 2''.

(2) Section 844(b) (132 Stat. 1881) is amended by striking ''This section and the amendments made by this section'' and inserting ''The amendment made by subsection (a)''.

(3) Section 1246(1)(B) (132 Stat. 2049) is amended by adding at the end before the semicolon

the following: ''and transferring it to appear after paragraph (15)''.

(4) Section 2805(c) (132 Stat. 2262; 10 U.S.C. 2864 note) is amended by striking ''United Facilities Criteria'' and inserting ''Unified Facilities Criteria''.

(c) NDAA FOR FISCAL YEAR 2018.—Effective as of December 12, 2017, and as if included therein as enacted, section 1609(b)(3) of the National Defense Authorization Act for Fiscal Year 2018 (Public Law 115–91; 131 Stat. 1728; 10 U.S.C. 2273 note) is amended by striking '', and,'' and inserting '', and''.

(d) NDAA FOR FISCAL YEAR 2012.—Effective as of December 31, 2011, and as if included therein as enacted, section 315 of the National Defense Authorization Act for Fiscal Year 2012 (Public Law 112–81; 125 Stat. 1358; 10 U.S.C. 2911 note) is amended by redesignating subsections (d), (e), and (f) as subsections (c), (d), and (e), respectively.

(e) COORDINATION WITH OTHER AMENDMENTS MADE BY THIS ACT.—For purposes of applying amendments made by provisions of this Act other than this section, the amendments made by this section shall be treated as having been enacted immediately before any such amendments by other provisions of this Act.

SEC. 1082. SUBMISSION TO CONGRESS OF DEPARTMENT OF DEFENSE EXECUTE ORDERS.

(a) IN GENERAL.—Chapter 2 of title 10, United States Code, is amended by adding at the end the following new section:

"§ 119b. Execute orders: congressional oversight

''Not later than 30 days after the date on which the Secretary of Defense or the commander of a combatant command issues an execute order, the Secretary of Defense shall provide to the chairman and ranking member of each of the congressional defense committees, and their designated staff with the appropriate security clearance, a copy of the execute order.''.

(b) CLERICAL AMENDMENT.—The table of sections at the beginning of such chapter is amended by adding at the end the following new item:

''119b. Execute orders: congressional oversight.''.

(c) PREVIOUSLY ISSUED EXECUTE ORDERS.—Not later than 30 days after the date of the enactment of this Act, the Secretary of Defense shall submit to the chairman and ranking member of each of the congressional defense committees, and their designated staff with the appropriate security clearance, copies of each execute order issued by the Secretary or by a commander of a combatant command before the date of the enactment of this Act.

SEC. 1083. EXTENSION OF NATIONAL SECURITY COMMISSION ON ARTIFICIAL INTELLIGENCE.

Section 1051 of the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Public Law 115–232) is amended—

(1) in subsection (c)(1), by striking ''180 days'' and inserting ''360 days''; and

(2) in subsection (e), by striking ''October 1, 2020'' and inserting ''March 1, 2021''.

SEC. 1084. NATIONAL COMMISSION ON MILITARY AVIATION SAFETY.

(a) EXTENSION OF DEADLINE FOR REPORT.—Subsection (h)(2) of section 1087 of the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Public Law 115–232) is amended by striking ''March 1, 2020'' an inserting ''December 1, 2020''.

(b) SECRETARY OF DEFENSE REPORT.—Such section is further amended by adding at the end the following new subsection:

''(l) REPORT TO CONGRESS.—Not later than 120 days after the date of the submittal of the report under subsection (h)(2), the Secretary of Defense, in coordination with the Secretary of each of the military departments, shall submit to the Committees on Armed Services of the Senate and House of Representatives a report that includes each of the following:

"(1) An assessment of the findings and conclusions of the Commission.

"(2) The plan of the Secretaries for implementing the recommendations of the Commission.

"(3) Any other actions taken or planned by the Secretary of Defense or the Secretary of any of the military departments to improve military aviation safety.".

(c) AUTHORIZATION OF APPROPRIATIONS.—In addition to any other amounts authorized to be appropriated for the National Commission on Military Aviation Safety established under section 1087 of the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Public Law 115–232), of the amounts authorized to be appropriated for Operation and Maintenance, Defense-wide for fiscal year 2020, as specified in the funding table in section 4301, $3,000,000 shall be available for the National Commission on Aviation Safety.

SEC. 1085. EXTENSION OF POSTAGE STAMP FOR BREAST CANCER RESEARCH.

Section 414(h) of title 39, United States Code, is amended by striking "2019" and inserting "2027".

SEC. 1086. PROCESSES AND PROCEDURES FOR NOTIFICATIONS REGARDING SPECIAL OPERATIONS FORCES.

(a) IN GENERAL.—Not later than 180 days after enactment of this Act, the Secretary of Defense shall establish and submit to the congressional defense committees processes and procedures for providing notifications to the committees regarding members of special operations forces, as identified in section 167(j) of title 10, United States Code.

(b) PROCESSES AND PROCEDURES.—The processes and procedures established under subsection (a) shall—

(1) clarify the roles and responsibilities of the Secretaries of the military departments, the Assistant Secretary of Defense for Special Operations and Low Intensity Conflict, and the Commander of United States Special Operations Command;

(2) provide guidance relating to the types of matters that would warrant congressional notification, including awards, reprimands, incidents, and any other matters the Secretary determines necessary;

(3) be consistent with the national security of the United States;

(4) be designed to protect sensitive information during an ongoing investigation;

(5) account for the privacy of members of the Armed Forces; and

(6) take in to account existing processes and procedures for notifications to the congressional defense committees regarding members of the conventional Armed Forces.

SEC. 1087. ASSESSMENT OF STANDARDS, PROCESSES, PROCEDURES, AND POLICY RELATING TO CIVILIAN CASUALTIES.

(a) ASSESSMENT REQUIRED.—The Secretary of Defense shall enter into an agreement with a federally funded research and development center for the conduct of an independent assessment of the sufficiency of Department of Defense standards, processes, procedures, and policy relating to civilian casualties resulting from United States military operations.

(b) MATTERS TO BE CONSIDERED.—In conducting the assessment under this section, the federally funded research and development center shall consider the following matters:

(1) Department of Defense policy relating to civilian casualties resulting from United States military operations.

(2) Standards, processes, and procedures for internal assessments and investigations of civilian cas-

ualties resulting from United States military operations.

(3) Standards, processes, and procedures for identifying, assessing, investigating, and responding to reports of civilian casualties resulting from United States military operations from the public and non-governmental entities and sources, including the consideration of relevant information from all available sources.

(4) Combatant command organizational constructs for assessing and investigating civilian casualties resulting from United States military operations.

(5) Mechanisms for public and non-governmental entities to report civilian casualties that have resulted from United States military operations to the Department of Defense.

(6) Enterprise-wide mechanisms for accurately recording kinetic strikes, including raids, strikes, and other missions, and civilian casualties resulting from United States military operations.

(7) Standards, processes, procedures, and policy for reducing the likelihood of civilian casualties from United States military operations.

(8) The institutionalization of lessons learned and best practices for reducing the likelihood of civilian casualties and relating to civilian casualties resulting from United States military operations.

(9) Any other matters the Secretary of Defense determines appropriate.

(c) ASSESSMENT RESULTS.—The results of the assessment under this section shall—

(1) present considerations for improving standards, processes, procedures, policy, and organizational constructs relating to civilian casualties resulting from military operations;

(2) provide for the presentation of Department of Defense views on the assessment; and

(3) provide for the presentation of the views of non-governmental organizations on the assessment.

(d) REPORT TO CONGRESS.—

(1) IN GENERAL.—Not later than March 1, 2020, the Secretary of Defense shall submit to the congressional defense committees a report containing the results of the assessment conducted under this section.

(2) FORM OF REPORT.—The report under paragraph (1) shall be submitted in unclassified form, but may contain a classified annex.

(3) PUBLIC AVAILABILITY.—The Secretary shall make the report under paragraph (1) publicly available.

SEC. 1088. DISPOSAL OF IPV4 ADDRESSES.

(a) DISPOSAL REQUIRED.—

(1) IN GENERAL.—Not later than 10 years after the date of the enactment of this Act, the Secretary of Defense shall sell all of the IPv4 addresses described in subsection (b) at fair market value. The net proceeds collected from a sale under this section shall be deposited in the General Fund of the Treasury.

(2) DEADLINES FOR CERTAIN BLOCKS.—Of the IPv4 addresses described in subsection (b), the Secretary of Defense shall sell in accordance with paragraph (1)—

(A) one block referred to in such subsection, or an equivalent number of IPv4 addresses, by not later than two years after the date of the enactment of this Act; and

(B) one additional such block, or an equivalent number of IPv4 addresses, by not later than three years after the date of the enactment of this Act.

(b) IPv4 ADDRESSES.—The IPv4 addresses described in this subsection are all IPv4 addresses assigned to any agency or entity of the Department of Defense, including all addresses contained in blocks 6.0.0.0/8, 7.0.0.0/8, 11.0.0.0/8, 21.0.0.0/8, 22.0.0.0/8, 26.0.0.0/8, 28.0.0.0/8, 29.0.0.0/8, 30.0.0.0/8, 33.0.0.0/8, 55.0.0.0/8, 214.0.0.0/8, and 215.0.0.0/8.

(c) REPORT TO CONGRESS.—

(1) IN GENERAL.—Not later than 180 days after the date of the enactment of this Act, the Secretary shall submit to the congressional defense committees a report that includes each of the following:

(A) A description of the measures taken by the Secretary regarding the disposal of the IPv4 addresses described in subsection (b).

(B) An accounting of the total IPv4 address holdings of the Department of Defense, as of the date of the submittal of the report.

(C) A description of any legacy systems of the Department that are dependent on the IPv4 addresses described in subsection (b).

(D) The plan of the Secretary to transition all Department addresses to IPv6.

(E) Such other information as the Secretary determines appropriate.

(2) FORM OF REPORT.—The report required by paragraph (1) shall be submitted in unclassified form, but may contain a classified annex.

(d) LIMITATION ON USE OF FUNDS.—Of the funds authorized to be appropriated by this Act or otherwise made available for fiscal year 2020 for Operation and Maintenance, Defense-wide, Office of the Secretary of Defense, for Travel of Persons (OP 32 Line 308), not more than 70 percent may be obligated or expended until the date on which the Secretary of Defense submits to the Committees on Armed Services of the Senate and the House of Representatives the report required under subsection (c).

SEC. 1089. SECURING AMERICAN SCIENCE AND TECHNOLOGY.

(a) INTERAGENCY WORKING GROUP.—

(1) IN GENERAL.—The Director of the Office of Science and Technology Policy, acting through the National Science and Technology Council, in consultation with the National Security Advisor, shall establish an interagency working group to coordinate activities to protect federally funded research and development from foreign interference, cyberattacks, theft, or espionage and to develop common definitions and best practices for Federal science agencies

and grantees, while accounting for the importance of the open exchange of ideas and international talent required for scientific progress and American leadership in science and technology.

(2) MEMBERSHIP.—

(A) IN GENERAL.—The working group shall include a representative of—

(i) the National Science Foundation;

(ii) the Department of Energy;

(iii) the National Aeronautics and Space Administration;

(iv) the National Institute of Standards and Technology;

(v) the Department of Commerce;

(vi) the National Institutes of Health;

(vii) the Department of Defense;

(viii) the Department of Agriculture;

(ix) the Department of Education;

(x) the Department of State;

(xi) the Department of the Treasury;

(xii) the Department of Justice;

(xiii) the Department of Homeland Security;

(xiv) the Central Intelligence Agency;

(xv) the Federal Bureau of Investigation;

(xvi) the Office of the Director of National Intelligence;

(xvii) the Office of Management and Budget;

(xviii) the National Economic Council; and

(xix) such other Federal department or agency as the President considers appropriate.

(B) CHAIR.—The working group shall be chaired by the Director of the Office of Science and Technology Policy (or the Director's designee).

(3) RESPONSIBILITIES OF THE WORKING GROUP.—The working group established under paragraph (1) shall—

(A) identify known and potential cyber, physical, and human intelligence threats and vulnerabilities within the United States scientific and technological enterprise;

(B) coordinate efforts among agencies to share and update important information, including specific examples of foreign inter-

ference, cyberattacks, theft, or espionage directed at federally funded research and development or the integrity of the United States scientific enterprise;

(C) identify and assess existing mechanisms for protection of federally funded research and development;

(D) develop an inventory of—

(i) terms and definitions used across Federal science agencies to delineate areas that may require additional protection; and

(ii) policies and procedures at Federal science agencies regarding protection of federally funded research; and

(E) develop and periodically update unclassified policy guidance to assist Federal science agencies and grantees in defending against threats to federally funded research and development and the integrity of the United States scientific enterprise that—

(i) includes—

(I) descriptions of known and potential threats to federally funded research and development and the integ-

rity of the United States scientific enterprise;

(II) common definitions and terminology for categorization of research and technologies that are protected;

(III) identified areas of research or technology that might require additional protection;

(IV) recommendations for how control mechanisms can be utilized to protect federally funded research and development from foreign interference, cyberattacks, theft or espionage, including any recommendations for updates to existing control mechanisms;

(V) recommendations for best practices for Federal science agencies and grantees to defend against threats to federally funded research and development, including coordination and harmonization of any relevant reporting requirements that Federal science agencies implement for grantees;

(VI) assessments of potential consequences that any proposed practices would have on international collaboration and United States leadership in science and technology; and

(VII) a classified addendum as necessary to further inform Federal science agency decisionmaking; and

(ii) accounts for the range of needs across different sectors of the United States science and technology enterprise.

(4) COORDINATION WITH NATIONAL ACADEMIES ROUNDTABLE.—The Director of the Office of Science and Technology Policy shall coordinate with the Academies to ensure that at least one member of the interagency working group is also a member of the roundtable under subsection (b).

(5) INTERIM REPORT.—Not later than six months after the date of enactment of this Act, the Director of the Office of Science and Technology Policy shall provide a report to the relevant committees that includes the inventory required under paragraph (3)(D), and an update on progress toward developing the policy guidance required under para-

graph (3)(E), as well as any additional activities undertaken by the working group in that time.

(6) BIENNIAL REPORTING.—Two years after the date of enactment of this Act, and at least every two years thereafter, the Director of the Office of Science and Technology Policy shall provide a summary report to the relevant committees on the activities of the working group and the most current version of the policy guidance required under paragraph (3)(E).

(b) NATIONAL ACADEMIES SCIENCE, TECHNOLOGY AND SECURITY ROUNDTABLE.—

(1) IN GENERAL.—The National Science Foundation, the Department of Energy, and the Department of Defense, and any other agencies as determined by the Director of the Office of Science and Technology Policy, shall enter into a joint agreement with the Academies to create a new ''National Science, Technology, and Security Roundtable'' (hereinafter in this subsection referred to as the ''roundtable'').

(2) PARTICIPANTS.—The roundtable shall include senior representatives and practitioners from Federal science, intelligence, and national security agencies, law enforcement, as well as key stake-

holders in the United States scientific enterprise including institutions of higher education, Federal research laboratories, industry, and non-profit research organizations.

(3) PURPOSE.—The purpose of the roundtable is to facilitate among participants—

(A) exploration of critical issues related to protecting United States national and economic security while ensuring the open exchange of ideas and international talent required for scientific progress and American leadership in science and technology;

(B) identification and consideration of security threats and risks involving federally funded research and development, including foreign interference, cyberattacks, theft, or espionage;

(C) identification of effective approaches for communicating the threats and risks identified in subparagraph (b) to the academic and scientific community, including through the sharing of unclassified data and relevant case studies;

(D) sharing of best practices for addressing and mitigating the threats and risks identified in subparagraph (B); and

(E) examination of potential near- and long-term responses by the government and the academic and scientific community to mitigate and address the risks associated with foreign threats.

(4) REPORT AND BRIEFING.—The joint agreement under paragraph (1) shall specify that—

(A) the roundtable shall periodically organize workshops and issue publicly available reports on the topics described in paragraph (3) and the activities of the roundtable; and

(B) not later than March 1, 2020, the Academies shall provide a briefing to relevant committees on the progress and activities of the roundtable.

(5) AUTHORIZATION OF APPROPRIATIONS.—There is authorized to be appropriated $5,000,000 to the Secretary of Defense for fiscal years 2020 to 2024 to carry out this subsection.

(c) DEFINITIONS.—In this section:

(1) The term ''Academies'' means the National Academies of Science, Engineering and Medicine.

(2) The term ''Federal science agency'' means any Federal agency with at least $100,000,000 in basic and applied research obligations in fiscal year 2018.

(3) The term ''grantee'' means an entity that is—

(A) a recipient or subrecipient of a Federal grant or cooperative agreement; and

(B) an institution of higher education or a non-profit organization.

(4) The term ''relevant committees'' means—

(A) the Committee on Science, Space, and Technology of the House of Representatives;

(B) the Committee on Commerce, Science, and Transportation of the Senate;

(C) the Committee on Armed Services of the House of Representatives; and

(D) the Committee on Armed Services of the Senate.

SEC. 1090. STANDARDIZED POLICY GUIDANCE FOR CALCULATING AIRCRAFT OPERATION AND SUSTAINMENT COSTS.

Not later than 270 days after the date of the enactment of this Act, the Under Secretary of Defense for Acquisition and Sustainment, in coordination with the Direc-

tor of Cost Analysis and Program Evaluation and in consultation with the Secretary of each of the military services, shall develop and implement standardized policy guidance for calculating aircraft operation and sustainment costs for the Department of Defense. Such guidance shall provide for a standardized calculation of—

(1) aircraft cost per flying hour;

(2) aircraft cost per aircraft tail per year; and

(3) total cost of ownership per flying hour for aircraft systems.

SEC. 1091. SPECIAL FEDERAL AVIATION REGULATION WORKING GROUP.

(a) IN GENERAL.—Not later than 90 days after the date of the enactment of this Act, the Secretary of Defense, the Secretary of Transportation, and the Secretary of State, shall jointly establish a Special Federal Aviation Regulation (in this section referred to as the ''SFAR'') interagency working group to review the current options for the Department of Defense to use contracted United States civil aviation to provide support for Department of Defense missions in areas where a Federal Aviation Administration SFAR is in effect.

(b) DUTIES.—The working group shall—

(1) analyze all options currently available for the Department of Defense to use contracted United

States civil aviation to provide support for Department of Defense missions in areas where a Federal Aviation Administration SFAR is in effect;

(2) review existing processes of the Department of Defense, the Federal Aviation Administration, and the Department of State, with respect to the Department of Defense's use of contracted United States civil aviation in areas where a Federal Aviation Administration SFAR is in effect;

(3) identify any issues, inefficiencies, or concerns with the existing options and processes, including safety of flight, legal considerations, mission delivery, and security considerations; and

(4) develop recommendations, if any, to improve existing processes or expand the options available for the Department of Defense to use contracted United States civil aviation to provide support to Department of Defense missions in areas where a Federal Aviation Administration SFAR is in effect.

(c) MEMBERS.—

(1) APPOINTMENT.—The Secretary of Defense, the Secretary of Transportation, and the Secretary of State shall each appoint not more than 5 members to the working group with expertise in civil aviation safety, state aircraft operations, the provi-

sion of contracted aviation support to the Department of Defense, and the coordination of such efforts between the Department of Defense, the Department of State, and the Federal Aviation Administration. The 5 members appointed by the Secretary of Transportation shall include at least 3 members from the Federal Aviation Administration.

(2) QUALIFICATIONS.—All working group members shall be full-time employees of the Federal Government with appropriate security clearances to allow discussion of all classified information and materials necessary to fulfill the working group's duties pursuant to subsection (b).

(d) REPORT.—Not later than 1 year after the date it is established, the working group shall submit a report on its findings and any recommendations developed pursuant to subsection (b) to the congressional defense committees, the Committee on Commerce, Science, and Transportation of the Senate, and the Committee on Transportation and Infrastructure of the House of Representatives.

(e) TERMINATION.—The working group shall terminate 90 days after the date the report is submitted under subsection (d).

(f) DEFINITIONS.—In this section the following definitions apply:

(1) The term ''United States civil aviation'' means—

(A) United States air carriers and United States commercial operators;

(B) persons exercising the privileges of an airman certificate issued by the FAA, except such persons operating United States-registered aircraft for a foreign air carrier; and

(C) operators of civil aircraft registered in the United States, except where the operator of such aircraft is a foreign air carrier.

(2) The term ''Federal Aviation Administration SFAR'' means the Special Federal Aviation Regulation included under subpart M of part 91 of title 14, Code of Federal Regulations.

TITLE XI—CIVILIAN PERSONNEL MATTERS

SEC. 1101. DEFENSE ADVANCED RESEARCH PROJECTS AGENCY PERSONNEL MANAGEMENT AUTHORITY.

Section 1599h(b)(1)(B) of title 10, United States Code, is amended by striking ''100 positions'' and inserting ''140 positions''.

SEC. 1102. MODIFICATION OF PROBATIONARY PERIOD FOR CERTAIN DEPARTMENT OF DEFENSE EMPLOYEES.

(a) IN GENERAL.—Section 1599e of title 10, United States Code, is amended by—

(1) striking subsection (a) and inserting the following:

''(a) IN GENERAL.—Notwithstanding sections 3321 and 3393(d) of title 5, the probationary period applicable under those sections to a covered employee may be extended by the Secretary concerned at the discretion of such Secretary.''; and

(2) by striking subsection (d).

(b) CONFORMING AMENDMENTS.—Title 5, United States Code, is amended—

(1) in section 7501(1), by striking '', except as provided in section 1599e of title 10,''; and

(2) in section 7511(a)(1)(A)(ii), by striking ''except as provided in section 1599e of title 10,''.

(c) APPLICATION.—The amendments made by this section shall apply to any covered employee (as that term is defined in paragraph (1) of section 1599e(b) of title 10, United States Code) appointed to a position described under subparagraph (A) or (B) of such paragraph on or after the date of the enactment of this Act.

SEC. 1103. CIVILIAN PERSONNEL MANAGEMENT.

Section 129 of title 10, United States Code, is amended—

(1) in subsection (a)—

(A) in the first sentence, by striking ''each fiscal year'' and inserting ''each fiscal year solely''; and

(B) in the second sentence—

(i) by striking ''Any'' and inserting ''The management of such personnel in any fiscal year shall not be subject to any''; and

(ii) by striking ''shall be developed'' and all that follows through ''changed circumstances''; and

(2) in subsection (c)(2)—

(A) in each of subparagraphs (A) and (B), by inserting ''and associated costs'' after each instance of ''projected size''; and

(B) in subparagraph (B), by striking ''that have been taken'' and all that follows through the period and inserting ''to reduce the overall costs of the total force of military, civilian, and contract workforces.''.

SEC. 1104. ONE-YEAR EXTENSION OF TEMPORARY AUTHORITY TO GRANT ALLOWANCES, BENEFITS, AND GRATUITIES TO CIVILIAN PERSONNEL ON OFFICIAL DUTY IN A COMBAT ZONE.

Paragraph (2) of section 1603(a) of the Emergency Supplemental Appropriations Act for Defense, the Global War on Terror, and Hurricane Recovery, 2006 (Public Law 109–234; 120 Stat. 443), as added by section 1102 of the Duncan Hunter National Defense Authorization Act for Fiscal Year 2009 (Public Law 110–417; 122 Stat. 4616) and as most recently amended by section 1115 of the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Public Law 115–232), is further amended by striking ''2020'' and inserting ''2021''.

SEC. 1105. ONE-YEAR EXTENSION OF AUTHORITY TO WAIVE ANNUAL LIMITATION ON PREMIUM PAY AND AGGREGATE LIMITATION ON PAY FOR FEDERAL CIVILIAN EMPLOYEES WORKING OVERSEAS.

(a) EXTENSION OF AUTHORITY.—Section 1101(a) of the Duncan Hunter National Defense Authorization Act for Fiscal Year 2009 (Public Law 110–417; 122 Stat. 4615), as most recently amended by section 1104 of the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Public Law 115–232), is further

amended by striking ''through 2019'' and inserting ''through 2020''.

(b) EFFECTIVE DATE.—The amendment made by this section shall take effect on January 1, 2020.

SEC. 1106. PERFORMANCE OF CIVILIAN FUNCTIONS BY MILITARY PERSONNEL.

Subparagraph (B) of paragraph (1) of subsection (g) of section 129a of title 10, United States Code, is amended to read as follows:

''(B) such functions may be performed by military personnel for a period that does not exceed one year if the Secretary of the military department concerned determines that—

''(i) the performance of such functions by military personnel is required to address critical staffing needs resulting from a reduction in personnel or budgetary resources by reason of an Act of Congress; and

''(ii) the military department concerned is in compliance with the policies, procedures, and analysis required by this section and section 129 of this title.''.

SEC. 1107. EXTENSION OF DIRECT HIRE AUTHORITY FOR DOMESTIC INDUSTRIAL BASE FACILITIES AND MAJOR RANGE AND TEST FACILITIES BASE.

(a) IN GENERAL.—Subsection (a) of section 1125 of the National Defense Authorization Act for Fiscal Year 2017 (Public Law 114–328), as amended by subsection (a) of section 1102 of the National Defense Authorization Act for Fiscal Year 2018 (Public Law 115–91), is further amended by striking ''through 2021,'' and inserting ''through 2025,''.

(b) BRIEFING.—Subsection (b) of such section 1102 is amended by striking ''fiscal years 2019 and 2021'' and inserting ''fiscal years 2019 through 2025''.

SEC. 1108. AUTHORITY TO PROVIDE ADDITIONAL ALLOWANCES AND BENEFITS FOR CERTAIN DEFENSE CLANDESTINE SERVICE EMPLOYEES.

Section 1603 of title 10, United States Code, is amended by adding at the end the following new subsection:

''(c) ADDITIONAL ALLOWANCES AND BENEFITS FOR CERTAIN EMPLOYEES OF THE DEFENSE CLANDESTINE SERVICE.—(1) Beginning on the date on which the Secretary of Defense submits the report under paragraph (3)(A), in addition to the authority to provide compensation under subsection (a), the Secretary may provide a

1 covered employee allowances and benefits under paragraph
2 (1) of section 9904 of title 5 without regard to the limita-
3 tions in that section—
4 ''(A) that the employee be assigned to activities
5 outside the United States; or
6 ''(B) that the activities to which the employee
7 is assigned be in support of Department of Defense
8 activities abroad.
9 ''(2) The Secretary may not provide allowances and
10 benefits under paragraph (1) to more than 125 covered
11 employees per year.
12 ''(3)(A) The Secretary shall submit to the appro-
13 priate congressional committees a report containing a
14 strategy addressing the mission of the Defense Clandes-
15 tine Service during the period covered by the most recent
16 future-years defense program submitted under section 221
17 of this title, including—
18 ''(i) how such mission will evolve during such
19 period;
20 ''(ii) how the authority provided by paragraph
21 (1) will assist the Secretary in carrying out such
22 mission; and
23 ''(iii) an implementation plan for carrying out
24 paragraph (1), including a projection of how much
25 the amount of the allowances and benefits provided

under such paragraph compare with the amount of the allowances and benefits provided before the date of the report.

''(B) Not later than December 31, 2020, and each year thereafter, the Secretary shall submit to the appropriate congressional committees a report, with respect to the fiscal year preceding the date on which the report is submitted—

''(i) identifying the number of covered employees for whom the Secretary provided allowances and benefits under paragraph (1); and

''(ii) evaluating the efficacy of such allowances and benefits in enabling the execution of the objectives of the Defense Intelligence Agency.

''(C) The reports under subparagraphs (A) and (B) may be submitted in classified form.

''(4) In this subsection:

''(A) The term 'appropriate congressional committees' means—

''(i) the congressional defense committees; and

''(ii) the Permanent Select Committee on Intelligence of the House of Representatives and the Select Committee on Intelligence of the Senate.

"(B) The term 'covered employee' means an employee in a defense intelligence position who is assigned to the Defense Clandestine Service at a location in the United States that the Secretary determines has living costs equal to or higher than the District of Columbia.".

SEC. 1109. PROHIBITED PERSONNEL PRACTICES.

(a) IN GENERAL.—Section 2302 of title 5, United States Code, is amended by adding at the end the following:

"(g)(1) All protections afforded to an employee under subparagraphs (A), (B), and (D) of subsection (b)(1) shall be afforded, in the same manner and to the same extent, to an intern and an applicant for internship.

"(2) For purposes of the application of this subsection, a reference to an employee shall be considered a reference to an intern in—

"(A) section 717 of the Civil Rights Act of 1964 (42 U.S.C. 2000e–16);

"(B) sections 12 and 15 of the Age Discrimination in Employment Act of 1967 (29 U.S.C. 631, 633a); and

"(C) section 501 of the Rehabilitation Act of 1973 (29 U.S.C. 791).

"(3) In this subsection, the term 'intern' means an individual who performs uncompensated voluntary service in an agency to earn credit awarded by an educational institution or to learn a trade or occupation.".

(b) CONFORMING AMENDMENT.—Section 3111(c)(1) of title 5, United States Code, is amended by inserting "section 2302(g) (relating to prohibited personnel practices)," before "chapter 81".

SEC. 1110. ENHANCEMENT OF ANTIDISCRIMINATION PROTECTIONS FOR FEDERAL EMPLOYEES.

(a) SENSE OF CONGRESS.—Section 102 of the Notification and Federal Employee Antidiscrimination and Retaliation Act of 2002 (5 U.S.C. 2301 note) is amended—

(1) in paragraph (4), to read as follows:

"(4) accountability in the enforcement of Federal employee rights is furthered when Federal agencies take appropriate disciplinary action against Federal employees who have been found to have committed discriminatory or retaliatory acts;"; and

(2) in paragraph (5)(A)—

(A) by striking "nor is accountability" and inserting "but accountability is not"; and

(B) by inserting "for what by law the agency is responsible" after "under this Act".

(b) NOTIFICATION OF VIOLATION.—Section 202 of the Notification and Federal Employee Antidiscrimination and Retaliation Act of 2002 (5 U.S.C. 2301 note) is amended by adding at the end the following:

"(d) NOTIFICATION OF FINAL AGENCY ACTION.—

"(1) Not later than 30 days after a Federal agency takes final action or the Equal Employment Opportunity Commission issues an appellate decision involving a finding of discrimination or retaliation prohibited by a provision of law covered by paragraph (1) or (2) of section 201(a), as applicable, the head of the agency subject to the finding shall provide notice for at least 1 year on the agency's internet website in a clear and prominent location linked directly from the agency's internet home page stating that a finding of discrimination or retaliation has been made.

"(2) The notification shall identify the date the finding was made, the date or dates on which the discriminatory or retaliatory act or acts occurred, and the law or laws violated by the discriminatory or retaliatory act or acts. The notification shall also advise Federal employees of the rights and protections available under the respective provisions of law covered by paragraph (1) or (2) of section 201(a).".

(c) REPORTING REQUIREMENTS.—

(1) ELECTRONIC FORMAT REQUIREMENT.—

(A) IN GENERAL.—Section 203(a) of the Notification and Federal Employee Anti-discrimination and Retaliation Act of 2002 (5 U.S.C. 2301 note) is amended—

(i) by inserting ''Homeland Security and'' before ''Governmental Affairs'';

(ii) by inserting ''Oversight and'' before ''Government Reform''; and

(iii) by inserting ''(in an electronic format prescribed by the Office of Personnel Management)'' after ''an annual report''.

(B) EFFECTIVE DATE.—The amendment made by paragraph (1)(C) shall take effect on the date that is 1 year after the date of enactment of this Act.

(C) TRANSITION PERIOD.—Notwithstanding the requirements of section 203(a) of the Notification and Federal Employee Anti-discrimination and Retaliation Act of 2002 (5 U.S.C. 2301 note), the report required under such section may be submitted in an electronic format, as prescribed by the Office of Personnel

Management, during the period beginning on the date of enactment of this Act and ending on the effective date in paragraph (2).

(2) REPORTING REQUIREMENT FOR DISCIPLINARY ACTION.—Section 203 of such Act is amended by adding at the end the following:

''(e) DISCIPLINARY ACTION REPORT.—Not later than 60 days after the date on which a Federal agency takes final action or a Federal agency receives an appellate decision issued by the Equal Employment Opportunity Commission involving a finding of discrimination or retaliation in violation of a provision of law covered by paragraph (1) or (2) of section 201(a), as applicable, the employing Federal agency shall submit to the Commission a report stating whether disciplinary action has been initiated against a Federal employee as a result of the violation.''.

(d) DATA TO BE POSTED BY EMPLOYING FEDERAL AGENCIES.—Section 301(b) of the Notification and Federal Employee Antidiscrimination and Retaliation Act of 2002 (5 U.S.C. 2301 note) is amended—

(1) in paragraph (9)—

(A) in subparagraph (A), by striking ''and'' at the end;

(B) in subparagraph (B)(ii), by striking the period at the end and inserting ", and"; and

(C) by adding at the end the following:

"(C) for each such finding counted under subparagraph (A), the agency shall specify—

"(i) the date of the finding;

"(ii) the affected agency;

"(iii) the law violated; and

"(iv) whether a decision has been made regarding necessary disciplinary action as a result of the finding."; and

(2) by adding at the end the following:

"(11) Data regarding each class action complaint filed against the agency alleging discrimination or retaliation, including—

"(A) information regarding the date on which each complaint was filed;

"(B) a general summary of the allegations alleged in the complaint;

"(C) an estimate of the total number of plaintiffs joined in the complaint if known;

"(D) the current status of the complaint, including whether the class has been certified; and

"(E) the case numbers for the civil actions in which discrimination or retaliation has been found.".

(e) DATA TO BE POSTED BY THE EQUAL EMPLOYMENT OPPORTUNITY COMMISSION.—Section 302(b) of the Notification and Federal Employee Antidiscrimination and Retaliation Act of 2002 (5 U.S.C. 2301 note) is amended by striking "(10)" and inserting "(11)".

(f) NOTIFICATION AND FEDERAL EMPLOYEE ANTIDISCRIMINATION AND RETALIATION ACT AMENDMENTS.—

(1) NOTIFICATION REQUIREMENTS.—The Notification and Federal Employee Antidiscrimination and Retaliation Act of 2002 (5 U.S.C. 2301 note) is amended by adding after section 206 the following:

"SEC. 207. COMPLAINT TRACKING.

"Not later than 1 year after the date of enactment of the Federal Employee Antidiscrimination Act of 2019, each Federal agency shall establish a system to track each complaint of discrimination arising under section 2302(b)(1) of title 5, United States Code, and adjudicated through the Equal Employment Opportunity process from inception to resolution of the complaint, including whether

a decision has been made regarding necessary disciplinary action as the result of a finding of discrimination.

"SEC. 208. NOTATION IN PERSONNEL RECORD.

''If a Federal agency takes an adverse action covered under section 7512 of title 5, United States Code, against a Federal employee for an act of discrimination or retaliation prohibited by a provision of law covered by paragraph (1) or (2) of section 201(a), the agency shall, after all appeals relating to such action have been exhausted, include a notation of the adverse action and the reason for the action in the employee's personnel record.''.

(2) PROCESSING AND REFERRAL.—The Notification and Federal Employee Antidiscrimination and Retaliation Act of 2002 (5 U.S.C. 2301 note) is amended by adding at the end the following:

"TITLE IV—PROCESSING AND REFERRAL

"SEC. 401. PROCESSING AND RESOLUTION OF COMPLAINTS.

''Each Federal agency is responsible for the fair, impartial processing and resolution of complaints of employment discrimination and retaliation arising in the Federal administrative process and shall establish a model Equal Employment Opportunity Program that—

"(1) is not under the control, either structurally or practically, of a Human Capital or General Counsel office;

"(2) is devoid of internal conflicts of interest and ensures fairness and inclusiveness within the organization; and

"(3) ensures the efficient and fair resolution of complaints alleging discrimination or retaliation.

"SEC. 402. NO LIMITATION ON HUMAN CAPITAL OR GENERAL COUNSEL ADVICE.

"Nothing in this title shall prevent a Federal agency's Human Capital or General Counsel office from providing advice or counsel to Federal agency personnel on the processing and resolution of a complaint, including providing legal representation to a Federal agency in any proceeding.

"SEC. 403. HEAD OF PROGRAM REPORTS TO HEAD OF AGENCY.

"The head of each Federal agency's Equal Employment Opportunity Program shall report directly to the head of the agency.

"SEC. 404. REFERRALS OF FINDINGS OF DISCRIMINATION.

"(a) EEOC FINDINGS OF DISCRIMINATION.—Not later than 30 days after the Equal Employment Opportunity Commission issues an appellate decision involving

1 a finding of discrimination or retaliation within a Federal
2 agency, the Commission shall refer the matter to the Of-
3 fice of Special Counsel.

4 ''(b) REFERRALS TO SPECIAL COUNSEL.—The Office
5 of Special Counsel shall accept and review a referral from
6 the Commission under subsection (a) for purposes of seek-
7 ing disciplinary action under its authority against a Fed-
8 eral employee who commits an act of discrimination or re-
9 taliation.

10 ''(c) NOTIFICATION.—The Office of Special Counsel
11 shall notify the Commission in a case in which the Office
12 of Special Counsel initiates disciplinary action.

13 ''(d) SPECIAL COUNSEL APPROVAL.—A Federal
14 agency may not take disciplinary action against a Federal
15 employee for an alleged act of discrimination or retaliation
16 referred by the Commission under this section except in
17 accordance with the requirements of section 1214(f) of
18 title 5, United States Code.''.

19 (3) CONFORMING AMENDMENTS.—The table of
20 contents in section 1(b) of the Notification and Fed-
21 eral Employee Antidiscrimination and Retaliation
22 Act of 2002 (5 U.S.C. 2301 note) is amended—

23 (A) by inserting after the item relating to
24 section 206 the following:

''Sec. 207. Complaint tracking.
''Sec. 208. Notation in personnel record.'';

and

(B) by adding at the end the following:

"TITLE IV—PROCESSING AND REFERRAL

"Sec. 401. Processing and resolution of complaints.
"Sec. 402. No limitation on Human Capital or General Counsel advice.
"Sec. 403. Head of Program reports to head of agency.
"Sec. 404. Referrals of findings of discrimination.".

(g) NONDISCLOSURE AGREEMENT LIMITATION.—Section 2302(b) of title 5, United States Code, is amended—

(1) in paragraph (13)—

(A) by inserting "or the Office of Special Counsel" after "Inspector General";

(B) by striking "implement" and inserting "(A) implement"; and

(C) by striking the period that follows the quoted material and inserting "; or"; and

(2) by adding after subparagraph (A), as added by paragraph (1)(B), and preceding the flush left matter that follows paragraph (13), the following:

"(B) implement or enforce any nondisclosure policy, form, or agreement, if such policy, form, or agreement prohibits or restricts an employee from disclosing to Congress, the Office of Special Counsel, or an Office of the Inspector General any information that relates to any violation of any law, rule, or regulation, or mis-

management, a gross waste of funds, an abuse of authority, or a substantial, and specific danger to public health or safety, or any other whistleblower protection.''.

SEC. 1111. MODIFICATION OF DIRECT HIRE AUTHORITIES FOR THE DEPARTMENT OF DEFENSE.

(a) IN GENERAL.—Section 9905 of title 5, United States Code, is amended—

(1) in subsection (a)—

(A) by amending paragraph (2) to read as follows:

''(2) Any cyber workforce position.''; and

(B) by adding afer paragraph (4) the following:

''(5) Any scientific, technical, engineering, or mathematics positions, including technicians, within the defense acquisition workforce, or any category of acquisition positions within the Department designated by the Secretary as a shortage or critical need category.

''(6) Any scientific, technical, engineering, or mathematics position, except any such position within any defense Scientific and Technology Reinvention Laboratory, for which a qualified candidate is required to possess a bachelor's degree or an ad-

vanced degree, or for which a veteran candidate is being considered.

''(7) Any category of medical or health professional positions within the Department designated by the Secretary as a shortage category or critical need occupation.

''(8) Any childcare services position for which there is a critical hiring need and a shortage of childcare providers.

''(9) Any financial management, accounting, auditing, actuarial, cost estimation, operational research, or business or business administration position, for which a qualified candidate is required to possess a finance, accounting, management or actuarial science degree or a related degree, or a related degree equivalent experience.

''(10) Any position, as determined by the Secretary, for the purpose of assisting and facilitating the efforts of the Department in business transformation and management innovation.''; and

(2) by striking subsection (b) and inserting the following:

''(b) SUNSET.—

"(1) IN GENERAL.—Except as provided in paragraph (2), effective on September 30, 2025, the authority provided under subsection (a) shall expire.

"(2) EXCEPTION.—Paragraph (1) shall not apply to the authority provided under subsection (a) to make appointments to positions described under paragraph (5) of such subsection.

"(c) SUSPENSION OF OTHER HIRING AUTHORITIES.—During the period beginning on the effective date of the regulations issued to carry out the hiring authority with respect to positions described in paragraphs (5) through (10) of subsection (a) and ending on the date described in subsection (b)(1), the Secretary of Defense may not exercise or otherwise use any hiring authority provided under the following provisions of law:

"(1) Sections 1599c(a)(2) and 1705(h) of title 10.

"(2) Sections 1112 and 1113 of the National Defense Authorization Act for Fiscal Year 2016 (Public Law 114–92; 129 Stat. 1033).

"(3) Sections 1110 and 1643(a)(3) of the National Defense Authorization Act for Fiscal Year 2017 (Public Law 114–328; 130 Stat. 2450 and 2602).

"(4) Sections 559 and 1101 of the National Defense Authorization Act for Fiscal Year 2018 (Public Law 115–91).".

(b) REPORT.—

(1) IN GENERAL.—Not later than February 1, 2021, the Secretary of Defense, in coordination with the Director of the Office of Personnel Management, shall contract with a Federally funded research and development center to submit a report to the congressional defense committees and the Committee on Oversight and Reform of the House of Representatives.

(2) CONTENTS.—The report required under paragraph (1) shall—

(A) assess and identify steps that could be taken to improve the competitive hiring process at the Department and ensure that direct hiring is conducted in a manner consistent with ensuring a merit based civil service and a diverse workforce in the Department and the rest of the Federal Government; and

(B) consider the feasibility and desirability of using cohort hiring, or hiring "talent pools", instead of conducting all hiring on a position-by-position basis.

(3) OTHER MATTERS.—The Federally funded research and development center selected to carry out the report under this subsection shall, in preparing such report, consult with all stakeholders, public sector unions, hiring managers, career agency, and Office of Personnel Management personnel specialists, and survey public sector employees and job applicants, when developing its analysis and recommendations.

SEC. 1112. PERMITTED DISCLOSURES BY WHISTLEBLOWERS.

(a) RECIPIENTS OF WHISTLEBLOWER DISCLOSURES.—Section 2302(b)(8)(B) of title 5, United States Code, is amended by striking ''or to the Inspector'' and all that follows through ''such disclosures'' and inserting ''the Inspector General of an agency, a supervisor in the employee's direct chain of command up to and including the head of the employing agency, or to an employee designated by any of the aforementioned individuals for the purpose of receiving such disclosures''.

(b) DETERMINATION OF BUDGETARY EFFECTS.—The budgetary effects of this section, for the purpose of complying with the Statutory Pay-As-You-Go Act of 2010, shall be determined by reference to the latest statement titled ''Budgetary Effects of PAYGO Legislation'' for this

section, submitted for printing in the Congressional Record by the Chairman of the House Budget Committee, provided that such statement has been submitted prior to the vote on passage.

TITLE XII—MATTERS RELATING TO FOREIGN NATIONS

Subtitle A—Assistance and Training

SEC. 1201. MODIFICATION OF AUTHORITY TO BUILD CAPACITY OF FOREIGN SECURITY FORCES.

(a) AUTHORITY.—Subsection (a)(7) of section 333 of title 10, United States Code, is amended by inserting ''existing'' before ''international coalition operation''.

(b) NOTICE AND WAIT ON ACTIVITIES UNDER PROGRAMS.—Subsection (e) of such section is amended by adding at the end the following:

''(9) In the case of a program described in subsection (a)(7), each of the following:

''(A) A description of whether assistance under the program could be provided pursuant to other authorities under this title, the Foreign Assistance Act of 1961, or any other train and equip authorities of the Department of Defense.

''(B) An identification of each such authority described in subparagraph (A).''.

SEC. 1202. MODIFICATION AND EXTENSION OF CROSS SERVICING AGREEMENTS FOR LOAN OF PERSONNEL PROTECTION AND PERSONNEL SURVIVABILITY EQUIPMENT IN COALITION OPERATIONS.

Section 1207 of the Carl Levin and Howard P. ''Buck'' McKeon National Defense Authorization Act for Fiscal Year 2015 (10 U.S.C. 2342 note) is amended—

(1) by redesignating subsections (d) and (e) as subsections (e) and (f), respectively;

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

''(d) REPORTS TO CONGRESS.—If the authority provided under this section is exercised during a fiscal year, the Secretary of Defense shall, with the concurrence of the Secretary of State, submit to the appropriate committees of Congress a report on the exercise of such authority by not later than October 30 of the year in which such fiscal year ends. Each report on the exercise of such authority shall specify the recipient country of the equipment loaned, the type of equipment loaned, and the duration of the loan of such equipment.''; and

(3) in subsection (f), as redesignated, by striking ''September 30, 2019'' and inserting ''December 31, 2024''.

SEC. 1203. MODIFICATION OF QUARTERLY REPORT ON OBLIGATION AND EXPENDITURE OF FUNDS FOR SECURITY COOPERATION PROGRAMS AND ACTIVITIES.

Section 381(b) of title 10, United States Code, is amended by striking ''30 days'' and inserting ''60 days''.

SEC. 1204. INTEGRATION OF GENDER PERSPECTIVES AND MEANINGFUL PARTICIPATION BY WOMEN IN SECURITY COOPERATION AUTHORITIES.

Section 333(c)(3) of title 10, United States Code, is amended—

(1) in the heading, by inserting ''THE INTEGRATION OF GENDER PERSPECTIVES AND MEANINGFUL PARTICIPATION BY WOMEN,'' after ''FUNDAMENTAL FREEDOMS,''; and

(2) in the text, by inserting ''the integration of gender perspectives and meaningful participation by women,'' after ''fundamental freedoms,''.

Subtitle B—Matters Relating to Afghanistan and Pakistan

SEC. 1211. EXTENSION AND MODIFICATION OF AUTHORITY FOR REIMBURSEMENT OF CERTAIN COALITION NATIONS FOR SUPPORT PROVIDED TO UNITED STATES MILITARY OPERATIONS.

(a) EXTENSION.—Subsection (a) of section 1233 of the National Defense Authorization Act for Fiscal Year

2008 (Public Law 110– 181; 122 Stat. 393) is amended in the matter preceding paragraph (1) by striking ''October 1, 2018, and ending on December 31, 2019'' and inserting ''October 1, 2019, and ending on December 31, 2020''.

(b) MODIFICATION TO LIMITATION.—Subsection (d)(1) of such section is amended—

(1) by striking ''October 1, 2018, and ending on December 31, 2019'' and inserting ''October 1, 2019, and ending on December 31, 2020''; and

(2) by striking ''$350,000,000'' and inserting ''$450,000,000''.

SEC. 1212. MODIFICATION AND EXTENSION OF AFGHAN SPECIAL IMMIGRANT VISA PROGRAM.

(a) PRINCIPAL ALIENS.—Subclause (I) of section 602(b)(2)(A)(ii) of the Afghan Allies Protection Act of 2009 (8 U.S.C. 1101 note) is amended to read as follows:

''(I) by, or on behalf of, the United States Government; or''.

(b) EXTENSION OF AFGHAN SPECIAL IMMIGRANT PROGRAM.—Section 602(b)(3)(F) of the Afghan Allies Protection Act of 2009 (8 U.S.C. 1101 note) is amended—

(1) in the heading, by striking ''2015, 2016, AND 2017'' and inserting ''2015 THROUGH 2020'';

(2) in the matter preceding clause (i), by striking ''18,500'' and inserting ''18,800'';

(3) in clause (i), by striking ''December 31, 2020'' and inserting ''December 31, 2021''; and

(4) in clause (ii), by striking ''December 31, 2020'' and inserting ''December 31, 2021''.

SEC. 1213. EXTENSION OF AUTHORITY TO TRANSFER DEFENSE ARTICLES AND PROVIDE DEFENSE SERVICES TO THE MILITARY AND SECURITY FORCES OF AFGHANISTAN.

(a) EXTENSION OF AUTHORITY.—Subsection (h) of section 1222 of the National Defense Authorization Act for Fiscal Year 2013 (Public Law 112–239; 126 Stat. 1992) is amended by striking ''December 31, 2020'' and inserting ''December 31, 2022''.

(b) EXCESS DEFENSE ARTICLES.—Subsection (i)(2) of such section is amended by striking ''December 31, 2020'' each place it appears and inserting ''December 31, 2022''.

SEC. 1214. EXTENSION AND MODIFICATION OF AUTHORITY TO ACQUIRE PRODUCTS AND SERVICES PRODUCED IN COUNTRIES ALONG A MAJOR ROUTE OF SUPPLY TO AFGHANISTAN.

(a) TERMINATION OF AUTHORITY.—Subsection (f) of section 801 of the National Defense Authorization Act for

Fiscal Year 2010 (Public Law 111–84; 123 Stat. 2399) is amended by striking ''December 31, 2019'' and inserting ''December 31, 2021''.

(b) REPORT ON AUTHORITY.—Such section, as so amended, is further amended by adding at the end the following:

''(g) REPORT ON AUTHORITY.—

''(1) IN GENERAL.—Not later than March 1, 2020, and March 1, 2021, the Secretary of Defense shall submit to the appropriate congressional committees a report on the use of the authority provided in subsection (a). The report shall address, at a minimum, the following:

''(A) The number of determinations made by the Secretary pursuant to subsection (b).

''(B) A description of the products and services acquired using the authority.

''(C) The extent to which the use of the authority has met the objectives of subparagraph (A), (B), or (C) of subsection (b)(2).

''(D) A list of the countries providing products or services as a result of a determination made pursuant to subsection (b).

''(2) APPROPRIATE CONGRESSIONAL COMMITTEES DEFINED.—For purposes of this subsection,

the term 'appropriate congressional committees' means—

"(A) the congressional defense committees; and

"(B) the Committee on Foreign Affairs of the House of Representatives and the Committee on Foreign Relations of the Senate.".

SEC. 1215. AUTHORITY FOR CERTAIN PAYMENTS TO REDRESS INJURY AND LOSS IN AFGHANISTAN, IRAQ, SYRIA, SOMALIA, LIBYA, AND YEMEN.

(a) AUTHORITY.—During the period beginning on the date of the enactment of this Act and ending on December 31, 2020, not more than $5,000,000, to be derived from funds authorized to be appropriated to the Office of the Secretary of Defense under the Operation and Maintenance, Defense-wide account, may be made available for ex gratia payments for damage, personal injury, or death that is incident to combat operations of the United States Armed Forces in Afghanistan, Iraq, Syria, Somalia, Libya, and Yemen.

(b) NOTICE.—The Secretary of Defense shall, upon each exercise of the authority in this subsection, submit to the congressional defense committees a report setting forth the following:

(1) The amount that will be used for payments pursuant to this subsection.

(2) The manner in which claims for payments shall be verified.

(3) The officers or officials who shall be authorized to approve claims for payments.

(4) The manner in which payments shall be made.

(c) AUTHORITIES APPLICABLE TO PAYMENT.—Any payment made pursuant to this subsection shall be made in accordance with the authorities and limitations in section 8121 of the Department of Defense Appropriations Act, 2015 (division C of Public Law 113–235), other than subsection (h) of such section.

SEC. 1216. EXTENSION OF SEMIANNUAL REPORT ON ENHANCING SECURITY AND STABILITY IN AFGHANISTAN.

Section 1225 of the Carl Levin and Howard P. ''Buck'' McKeon National Defense Authorization Act for Fiscal Year 2015 (Public Law 113–291; 128 Stat. 3558) is amended—

(1) in subsection (a)—

(A) in paragraph (2), by striking ''December 15, 2020'' and inserting ''December 15, 2022''; and

(B) by amending paragraph (3) to read as follows:

''(3) FORM.—Each report required under paragraph (1) shall be submitted in unclassified form without any designation relating to dissemination control, but may include a classified annex.''; and

(2) in subsection (b)—

(A) by inserting '', to include the progress of the Government of Afghanistan on securing Afghan territory and population,'' after ''the current security conditions in Afghanistan''; and

(B) by striking ''and the Haqqani Network'' and inserting ''the Haqqani Network, and the Islamic State of Iraq and Syria Khorasan''.

Subtitle C—Matters Relating to Syria, Iraq, and Iran

SEC. 1221. MODIFICATION OF AUTHORITY TO PROVIDE ASSISTANCE TO COUNTER THE ISLAMIC STATE OF IRAQ AND SYRIA.

(a) LIMITATION ON AVAILABILITY OF AUTHORITY.—Of the amounts made available for fiscal year 2020 pursuant to the authorization in section 1236 of the Carl Levin and Howard P. ''Buck'' McKeon National Defense Au-

thorization Act for Fiscal Year 2015 (Public Law 113–291; 128 Stat. 3558), as amended by this section, not more than 70 percent may be obligated or expended until the date on which the Secretary of Defense submits to the congressional defense committees, the Committee on Foreign Affairs of the House of Representatives, and the Committee on Foreign Relations of the Senate a report in unclassified form, that may include a classified annex, that includes each of the following:

(1) Any updates to or changes in the plan, strategy, process, vetting requirements and process as described in subsection (e) of such section 1236, and end-use monitoring mechanisms and procedures.

(2) A description of how attacks against United States or coalition personnel are being mitigated, statistics on any such attacks, including ''green-on-blue'' attacks.

(3) A description of the forces receiving assistance authorized under subsection (a) of such section 1236.

(4) A description of the recruitment, throughput, and retention rates of recipients and equipment.

(5) A description of any misuse or loss of provided equipment and how such misuse or loss is being mitigated.

(6) An assessment of the operational effectiveness of the forces receiving assistance authorized under subsection (a) of such section 1236.

(7) A description of sustainment support provided to the forces authorized under subsection (a) of such section 1236.

(8) A list of new projects for construction, repair, or renovation commenced during the period covered by such progress report, and a list of projects for construction, repair, or renovation continuing from the period covered by the preceding progress report.

(9) A statement of the amount of funds expended during the period for which the report is submitted.

(10) An assessment of the effectiveness of the assistance authorized under subsection (a) of such section 1236.

(11) A list of the forces or elements of forces that are restricted from receiving assistance under subsection (a) of such section 1236, other than the forces or elements of forces with respect to which the Secretary of Defense has exercised the waiver authority under subsection (j) of such section 1236, as a result of vetting required by subsection (e) of

such section 1236 or by section 2249e of title 10, United States Code, and a detailed description of the reasons for such restriction, including for each force or element, as applicable, the following:

(A) Information relating to gross violation of human rights committed by such force or element, including the time-frame of the alleged violation.

(B) The source of the information described in subparagraph (A) and an assessment of the veracity of the information.

(C) The association of such force or element with terrorist groups or groups associated with the Government of Iran.

(D) The amount and type of any assistance provided to such force or element by the Government of Iran.

(12) An assessment of—

(A) security in liberated areas in Iraq;

(B) the extent to which security forces trained and equipped, directly or indirectly, by the United States are prepared to provide post-conflict stabilization and security in such liberated areas; and

(C) the effectiveness of security forces in the post-conflict environment and an identification of which such forces will provide post-conflict stabilization and security in such liberated areas.

(13) A summary of available information relating to the disposition of militia groups throughout Iraq, with particular focus on groups in areas liberated from ISIS or in sensitive areas with historically mixed ethnic or minority communities.

(b) FUNDING.—Subsection (g) of section 1236 of the Carl Levin and Howard P. ''Buck'' McKeon National Defense Authorization Act for Fiscal Year 2015 (Public Law 113–291; 128 Stat. 3558) is amended—

(1) by striking ''fiscal year 2019'' and inserting ''fiscal year 2020''; and

(2) by striking ''$850,000,000'' and inserting ''$663,000,000''.

(c) MODIFICATION OF ELEMENTS IN QUARTERLY PROGRESS REPORTS.—Subsection (d) of such section 1236 is amended—

(1) in paragraph (11), by striking ''section 2249e of title 10, United States Code'' and inserting ''section 362 of title 10, United States Code''; and

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

''(13) A summary of available information relating to the disposition of militia groups throughout Iraq, with particular focus on groups in areas liberated from ISIS or in sensitive areas with historically mixed ethnic or minority communities.''.

(d) CLARIFICATION WITH RESPECT TO SCOPE OF AUTHORITY.—

(1) IN GENERAL.—Subsection (j)(2) of such section 1236 is amended to read as follows:

''(2) SCOPE OF ASSISTANCE AUTHORITY.—Notwithstanding paragraph (1), the authority granted by subsection (a) may only be exercised in consultation with the Government of Iraq.''.

(2) TECHNICAL CORRECTION.—The heading of subsection (j) of such section 1236 is amended by inserting ''; SCOPE'' after ''AUTHORITY''.

(e) TECHNICAL CORRECTION.—Subsection (c) of such section 1236 is amended in the matter preceding paragraph (1) by striking ''subsection (a)(1)'' and inserting ''subsection (b)(1)(A)''.

SEC. 1222. EXTENSION AND MODIFICATION OF AUTHORITY TO PROVIDE ASSISTANCE TO THE VETTED SYRIAN OPPOSITION.

(a) IN GENERAL.—Section 1209 of the Carl Levin and Howard P. ''Buck'' McKeon National Defense Authorization Act for Fiscal Year 2015 (Public Law 113–291; 128 Stat. 3559) is amended as follows:

(1) In subsection (a)—

(A) in the matter preceding paragraph (1)—

(i) by inserting '', appropriately vetted local security forces in northeast Syria, including units of the Syrian Democratic Forces and their associated counter-terrorism units,'' after ''elements of the Syrian opposition''; and

(ii) by striking ''December 31, 2019'' and inserting ''December 31, 2020''.

(B) in paragraph (1), by inserting ''or previously controlled by ISIL'' after ''Syrian opposition''.

(2) By amending subsection (b) to read as follows:

''(b) NOTICE BEFORE PROVISION OF ASSISTANCE.—Not later than 15 days prior to each instance of the provision of assistance under subsection (a), the Secretary of

Defense, in coordination with the Secretary of State, shall submit to the appropriate congressional committees and leadership of the House of Representatives and Senate a notification that includes the following:

''(1) The plan for providing the assistance.

''(2) The requirements and process used to determine appropriately vetted recipients with respect to the assistance.

''(3) The mechanisms and procedures that will be used to monitor and report to the appropriate congressional committees and leadership of the House of Representatives and Senate on unauthorized end-use of provided training and equipment or other violations of relevant law by appropriately vetted recipients.

''(4) The amount, type, and purpose of assistance to be funded and the recipient of the assistance.

''(5) The budget and implementation timeline, with milestones and anticipated delivery schedule for the assistance.

''(6) A description of any material use of assistance previously provided under subsection (a) to any appropriately vetted recipient of such assistance for a purpose other than the purposes specified in sub-

section (a) that occurred since the most recent notification submitted by the Secretary pursuant to this subsection, with a specific description of the following:

''(A) The details of such material misuse.

''(B) The recipient or recipients responsible for such material misuse.

''(C) The consequences of such material misuse.

''(D) The actions taken by the Secretary to remedy the causes and effects of such material misuse.

''(7) The goals and objectives of the assistance.

''(8) The concept of operations, timelines, and types of training, equipment, stipends, sustainment, construction, and supplies to be provided.

''(9) The roles and contributions of partner nations.

''(10) The number and role of United States Armed Forces personnel involved.

''(11) Any additional military support and sustainment activities.

''(12) Any other relevant details.''.

(3) By amending subsection (c) to read as follows:

"(c) FORM.—The notifications required by subsection (b) shall be submitted in unclassified form but may include a classified annex.".

(4) By striking subsection (f) and inserting the following:

"(f) RESTRICTION ON SCOPE OF ASSISTANCE IN THE FORM OF WEAPONS.—

"(1) IN GENERAL.—The Secretary may only provide assistance in the form of weapons pursuant to the authority under subsection (a) if such weapons are small arms, including handguns, rifles and carbines, sub-machine guns, or light machine guns.

"(2) WAIVER.—The Secretary may waive the restriction under paragraph (1) if the Secretary certifies to the appropriate congressional committees that such provision of law would (but for the waiver) impede national security objectives of the United States by prohibiting, restricting, delaying, or otherwise limiting the provision of assistance. Such waiver shall not take effect until 15 days after the date on which such certification is submitted to the appropriate congressional committees.".

(5) In subsection (g)—

(A) by inserting ", at the end of the 15-day period beginning on the date the Secretary

notifies the congressional defense committees of the amount, source, and intended purpose of such contributions'' after ''as authorized by this section''; and

(B) by striking ''operation and maintenance accounts'' and all that follows through the end of the subsection and inserting ''accounts.''.

(6) In subsection (k), by inserting '', at the end of the 15-day period beginning on the date the Secretary notifies the congressional defense committees of the amount, recipient, and intended purpose of such assistance'' after ''authorized under this section''.

(7) In subsection (l)—

(A) by striking ''$10,000,000'' and inserting ''$20,000,000'';

(B) by adding at the end the following new sentence: ''Amounts accepted as contributions pursuant to the authority in subsection (g) for construction and repair projects may be expended without regard to the limitation under this subsection.'';

(C) by striking ''REPAIR PROJECTS.—The aggregate'' and inserting . ''REPAIR PROJECTS.—

''(1) IN GENERAL.—The aggregate''; and

(D) by adding at the end the following:

''(2) WAIVER.—The Secretary may waive the limitation under paragraph (1) if the Secretary certifies to the appropriate congressional committees that such provision of law would (but for the waiver) impede national security objectives of the United States by prohibiting, restricting, delaying, or otherwise limiting the provision of assistance. Such waiver shall not take effect until 15 days after the date on which such certification is submitted to the appropriate congressional committees.''.

(8) By striking subsection (j).

(9) By redesignating subsections (k) through (m) (as amended by this subsection) as subsections (j) through (l), respectively.

(b) EFFECTIVE DATE AND AVAILABILITY OF AUTHORITY.—

(1) IN GENERAL.—The amendments made by subsection (a) shall take effect on the date of the enactment of this section.

(2) AVAILABILITY OF AUTHORITY.—Notwithstanding paragraph (1), the Secretary may not provide assistance pursuant to the authority provided by section 1209 of the Carl Levin and Howard P. ''Buck'' McKeon National Defense Authorization Act for Fiscal Year 2015 (Public Law 113–291; 128 Stat. 3559), as amended by subsection (a) of this section, during the period beginning on January 1, 2020, and ending on the date on which each quarterly report required to be submitted pursuant to subsection (d) of such section 1209, as of the date of the enactment of this section, has been submitted.

SEC. 1223. EXTENSION AND MODIFICATION OF AUTHORITY TO SUPPORT OPERATIONS AND ACTIVITIES OF THE OFFICE OF SECURITY COOPERATION IN IRAQ.

(a) EXTENSION OF AUTHORITY.—Subsection (f)(1) of section 1215 of the National Defense Authorization Act for Fiscal Year 2012 (10 U.S.C. 113 note) is amended by striking ''fiscal year 2019'' and inserting ''fiscal year 2020''.

(b) AMOUNT AVAILABLE.—Such section is further amended—

(1) in subsection (c), by striking ''fiscal year 2019'' and inserting ''fiscal year 2020''; and

(2) in subsection (d), by striking ''fiscal year 2019'' and inserting ''fiscal year 2020''.

(c) LIMITATION ON AVAILABILITY OF FUNDS.—Of the amount available for fiscal year 2020 for section 1215 of the National Defense Authorization Act for Fiscal Year 2012, as amended by this section, not more than an amount equal to 50 percent may be obligated or expended for the Office of Security Cooperation in Iraq until the date on which the Secretary of Defense certifies to the congressional defense committees, the Committee on Foreign Affairs of the House of Representatives, and the Committee on Foreign Relations of the Senate, that each of the following reforms relating to that Office has been completed:

(1) The appointment of a Senior Defense Official/Defense Attache to oversee the Office.

(2) The development of a Joint Service staffing plan to reorganize the Office similar to that of other security cooperation offices in the region, that places foreign area officers in key leadership positions and closes duplicative or extraneous sections.

(3) The planning and initiation of bilateral engagement with the Government of Iraq for the purpose of establishing a Joint Military Commission and the initiation and drafting of a five-year security

assistance roadmap for developing strategic and sustainable military capacity and capabilities for Iraq that includes a plan to reform Iraq's defense industrial base and security sector by reducing corruption and optimizing procurement.

SEC. 1224. PROHIBITION ON PROVISION OF WEAPONS AND OTHER FORMS OF SUPPORT TO CERTAIN ORGANIZATIONS.

None of the funds authorized to be appropriated by this Act or otherwise made available to the Department of Defense for fiscal year 2020 may be used to knowingly provide weapons or any other form of support to Al Qaeda, the Islamic State of Iraq and Syria (ISIS), Jabhat Fateh al Sham, or any individual or group affiliated with any such organization.

SEC. 1225. RULE OF CONSTRUCTION RELATING TO USE OF MILITARY FORCE AGAINST IRAN.

Nothing in this Act or any amendment made by this Act may be construed to authorize the use of military force against Iran.

SEC. 1226. SENSE OF CONGRESS ON SUPPORT FOR MINISTRY OF PESHMERGA FORCES OF THE KURDISTAN REGION OF IRAQ.

It is the sense of Congress that—

(1) the United States led coalition and coalition enabled partner forces, including Ministry of Peshmerga forces of the Kurdistan Region of Iraq and Iraqi Security Forces (ISF), have made significant gains in liberating all territory in Iraq from Islamic State of Iraq and Syria (ISIS) control and disrupting ISIS safe havens and networks;

(2) nevertheless, ISIS is regenerating key functions and capabilities in Iraq, and ISIS elements will continue to exist in Iraq for the foreseeable future;

(3) ISIS will attempt to rebuild combat power through clandestine networks providing sanctuary, and ISIS will continue to attempt to conduct insurgent-type activities while simultaneously recruiting and training fighters, establishing facilitation networks, and attempting to remain relevant in the information domain;

(4) the Ministry of Peshmerga forces of the Kurdistan Region of Iraq made significant contributions and sacrifices in the United States-led campaign to degrade, dismantle, and destroy ISIS; and

(5) the Department of Defense and the Department of State should continue to work with and support the non-partisan forces of the Ministry of Peshmerga of the Kurdistan Region of Iraq in order

to continue to develop their capabilities, promote security sector reforms, and enhance sustainability and interoperability with the other elements of the Iraqi security forces in order to provide for Iraq's lasting security against terrorist threats.

Subtitle D—Matters Relating to Russia

SEC. 1231. PROHIBITION ON THE USE OF FUNDS TO SUSPEND, TERMINATE, OR WITHDRAW THE UNITED STATES FROM THE OPEN SKIES TREATY.

(a) FINDINGS.—Congress finds the following:

(1) Since 1992, the United States has supported the Open Skies Treaty with dedicated aircraft and observation mission teams, conducting several hundred training and observation missions with other countries.

(2) This commitment by the United States has helped to confirm and refine operational procedures, to improve implementation and effectiveness of the Open Skies Treaty, and provide United States leadership and engagement opportunities that have supported broader objectives and improved European transparency.

(3) The Open Skies Treaty provides signatories with the ability to gather information through aerial imaging on military forces and activities of concern to them which contributes to greater transparency and stability in the Euro-Atlantic region, which benefits both the United States and United States allies and partners.

(4) In order to maximize United States benefits from the Open Skies Treaty, the United States needs to recapitalize and modernize its aircraft and sensors, and the ongoing work to certify the Digital Visual Imaging System and the new effort for the Open Skies Treaty Aircraft Recapitalization (OSTAR) are critical to United States leadership and involvement in the Treaty.

(5) The current 1960s-era United States aircraft used with respect to the Open Skies Treaty are ill-suited to extreme operating environments in Russia and experience regular, unplanned maintenance issues, often resulting in mission delays or cancellations.

(6) The OSTAR effort will provide a United States aircraft capability that allows the United States to fully implement the goals and objectives of the Open Skies Treaty.

(7) The United States also demonstrated in December 2018, along with United States allies of Canada, the United Kingdom, France, Germany, and Romania, that Open Skies Treaty mechanisms can be used during times of crisis.

(8) Following Russia's unprovoked attack on Ukrainian vessels near the Kerch Strait, the United States and United States allies conducted an ''extraordinary'' Open Skies Treaty observation mission over Ukraine to reaffirm commitment to Ukraine.

(b) SENSE OF CONGRESS.—It is the sense of Congress that—

(1) the United States should forcefully address Russian violations of its obligations under the Open Skies Treaty; and

(2) due to the significant benefits that observation missions under the Open Skies Treaty provide to the United States and United States allies, the United States should commit to continued participation in the Treaty.

(c) PROHIBITION.—

(1) IN GENERAL.—Except as provided in paragraph (2), none of the funds authorized to be appropriated by this Act or otherwise made available to the Department of Defense for fiscal year 2020 may

be obligated or expended to take any action to suspend, terminate, or withdraw the United States from the Open Skies Treaty.

(2) EXCEPTION.—The prohibition in paragraph (1) shall not apply if the Secretary of Defense and the Secretary of State jointly determine and certify to the congressional defense committees, the Committee on Foreign Affairs of the House of Representatives, and the Committee on Foreign Relations of the Senate, that—

(A) Russia is in material breach of its obligations under the Open Skies Treaty and is not taking steps to return to compliance with such obligations, and all other state parties to the Open Skies Treaty concur in such determination of the Secretaries; or

(B) withdrawing from the Open Skies Treaty would be in the best interests of United States national security and the other state parties to the Open Skies Treaty have been consulted with respect to such withdrawal.

(d) REPEAL OF LIMITATION ON USE OF FUNDS TO VOTE TO APPROVE OR OTHERWISE ADOPT ANY IMPLEMENTING DECISION OF THE OPEN SKIES CONSULTATIVE COMMISSION AND MODIFICATIONS TO REPORT.—

(1) IN GENERAL.—Section 1236 of the National Defense Authorization Act for Fiscal Year 2017 (Public Law 114–328; 130 Stat. 2491) is amended—

(A) by striking subsections (a) and (b); and

(B) by redesignating subsections (c), (d), (e), and (f) as subsections (a), (b), (c), and (d), respectively.

(2) MODIFICATIONS TO REPORT.—Subsection (a) of such section, as so redesignated, is amended—

(A) in the heading, by striking ''QUARTERLY'' and inserting ''BI-ANNUAL'';

(B) in paragraph (1)—

(i) by inserting ''the Secretary of State,'' before ''the Secretary of Energy'';

(ii) by striking ''quarterly basis'' and inserting ''bi-annual basis'';

(iii) by striking ''by the Russian Federation over the United States'' and inserting ''by all parties to the Open Skies Treaty, including the United States, under the Treaty''; and

(iv) by striking ''calendar quarter'' and inserting ''preceding 6-month period''; and

(C) in paragraph (2), by striking subparagraphs (B), (C), and (D) and inserting the following:

''(B) In the case of an observation flight by the United States, including an observation flight over the territory of Russia—

''(i) an analysis of data collected that supports United States intelligence and military collection goals; and

''(ii) an assessment of data collected regarding military activity that could not be collected through other means.

''(C) In the case of an observation flight over the territory of the United States—

''(i) an analysis of whether and the extent to which any United States critical infrastructure was the subject of image capture activities of such observation flight;

''(ii) an estimate for the mitigation costs imposed on the Department of De-

fense or other United States Government agencies by such observation flight; and

"(iii) assessment of how such information is used by party conducting the observation flight, for what purpose, and how the information fits into the overall collection posture.".

(3) FORM.—Subsection (c) of such section, as so redesignated, is amended by striking "certification, report, and notice" and inserting "report".

(4) DEFINITIONS.—Subsection (d) of such section, as so redesignated, is amended—

(A) by striking paragraphs (3) and (6); and

(B) by redesignating paragraphs (4), (5), and (7) as paragraphs (3), (4), and (5), respectively.

(e) OPEN SKIES: IMPLEMENTATION PLAN.—Section 1235(a) of the National Defense Authorization Act for Fiscal Year 2018 (Public Law 115–91; 131 Stat. 1660) is amended—

(1) in paragraph (1)—

(A) by striking "during such fiscal year" and inserting "during a calendar year"; and

(B) by striking ''the President submits'' and all that follows and inserting ''the Secretary of Defense provides to the appropriate congressional committees a briefing on a plan described in paragraph (2) with respect to such calendar year.'';

(2) in paragraph (2), by striking ''such fiscal year'' and inserting ''such calendar year''; and

(3) in paragraph (3), by striking ''a fiscal year and submit the updated plan'' and inserting ''a calendar year and provide a briefing on the updated plan''.

(f) DEFINITION OF OPEN SKIES TREATY; TREATY.—In this section, the term ''Open Skies Treaty'' or ''Treaty'' means the Treaty on Open Skies, done at Helsinki March 24, 1992, and entered into force January 1, 2002.

SEC. 1232. EXTENSION OF LIMITATION ON MILITARY COOPERATION BETWEEN THE UNITED STATES AND RUSSIA.

Section 1232(a) of the National Defense Authorization Act for Fiscal Year 2017 (Public Law 114–328; 130 Stat. 2488), is amended by striking ''or 2019'' and inserting '', 2019, or 2020''.

SEC. 1233. PROHIBITION ON AVAILABILITY OF FUNDS RELATING TO SOVEREIGNTY OF RUSSIA OVER CRIMEA.

(a) PROHIBITION.—None of the funds authorized to be appropriated by this Act or otherwise made available for fiscal year 2020 for the Department of Defense may be obligated or expended to implement any activity that recognizes the sovereignty of Russia over Crimea.

(b) WAIVER.—The Secretary of Defense, with the concurrence of the Secretary of State, may waive the restriction on the obligation or expenditure of funds required by subsection (a) if the Secretary—

(1) determines that to do so is in the national security interest of the United States; and

(2) submits a notification of the waiver, at the time the waiver is invoked, to the Committee on Armed Services and the Committee on Foreign Affairs of the House of Representatives and the Committee on Armed Services and the Committee on Foreign Relations of the Senate.

SEC. 1234. MODIFICATION AND EXTENSION OF UKRAINE SECURITY ASSISTANCE INITIATIVE.

Section 1250 of the National Defense Authorization Act for Fiscal Year 2016 (Public Law 114–92; 129 Stat. 1068) is amended—

(1) in subsection (a), by striking ''in coordination with the Secretary of State'' and inserting ''with the concurrence of the Secretary of State'';

(2) in subsection (c)—

(A) in paragraph (1), by striking ''50 percent of the funds available for fiscal year 2019 pursuant to subsection (f)(4)'' and inserting ''50 percent of the funds available for fiscal year 2020 pursuant to subsection (f)(5)''; and

(B) in paragraph (3), by striking ''fiscal year 2019'' and inserting ''fiscal year 2020''; and

(C) in paragraph (5), by striking ''Of the funds available for fiscal year 2019 pursuant to subsection (f)(4)'' and inserting ''Of the funds available for fiscal year 2020 pursuant to subsection (f)(5)''; and

(3) in subsection (f), by adding at the end the following:

''(5) For fiscal year 2020, $250,000,000.''.

SEC. 1235. REPORT ON TREATIES RELATING TO NUCLEAR ARMS CONTROL.

(a) FINDINGS.—Congress finds the following:

(1) On October 24, 2018, the House Committee on Armed Services and House Committee on For-

eign Affairs wrote to the Secretary of Defense requesting information regarding the Administration's policies and strategies related to nuclear arms control.

(2) The Committees did not receive the requested information from the Secretary of Defense.

(b) ASSESSMENT REQUIRED.—Not later than 120 days after the date of the enactment of this Act, the Secretary of Defense, in consultation with the Secretary of State and the Director of National Intelligence, shall submit to the Committee on Armed Services, the Permanent Select Committee on Intelligence, and the Committee on Foreign Affairs of the House of Representatives and the Committee on Armed Services, the Select Committee on Intelligence, and the Committee on Foreign Relations of the Senate an assessment that includes each of the following:

(1) The implications, in terms of military threat to the United States or its allies in Europe, of Russian deployment of intermediate-range cruise and ballistic missiles without restriction.

(2) What new capabilities the United States might need in order to pursue additional technologies or programs to offset such Russian capabili-

ties, and the costs associated with such capabilities, technologies, and programs.

(3) An assessment of the threat to the United States of Russia's strategic nuclear force in the event the New START Treaty lapses.

(4) What measures could have been taken short of withdrawal, including economic, military, and diplomatic options, to increase pressure on Russia for violating the INF Treaty.

(5) The status of all consultations with allies pertaining to the INF Treaty and the threat posed by Russian forces that are noncompliant with the obligations of such treaty.

(6) The impact that Russian withdrawal from the INF Treaty and the expiration of the New START Treaty could have on long-term United States-Russia strategic stability.

(c) WITHHOLDING OF FUNDS.—Until the date of the submission of the assessment required by subsection (b), an amount that is equal to 20 percent of the total amount authorized to be appropriated to the Office of the Secretary of Defense under the Operations and Maintenance, Defense-Wide account for the travel of persons shall be withheld from obligation or expenditure.

(d) DEFINITIONS.—In this section:

(1) NEW START TREATY.—The term ''New START Treaty'' means the Treaty between the United States of America and the Russian Federation on Measures for the Further Reduction and Limitation of Strategic Offensive Arms, signed at Prague April 8, 2010, and entered into force February 5, 2011.

(2) INF TREATY.—The term ''INF Treaty'' means the Treaty between the United States of America and the Union of Soviet Socialist Republics on the Elimination of Their Intermediate-Range and Shorter-Range Missiles, signed at Washington December 8, 1987, and entered into force June 1, 1988.

SEC. 1236. SENSE OF CONGRESS ON UPDATING AND MODERNIZING EXISTING AGREEMENTS TO AVERT MISCALCULATION BETWEEN THE UNITED STATES AND RUSSIA.

It is the sense of Congress that, in order to strengthen the defense of United States and its allies and partners in Europe and avert the risk of miscalculation and unintended escalation that could lead to a broader and dangerous military catastrophe, the Secretary of Defense and Secretary of State, in consultation with the commander of United States European Command and Assistant Sec-

retary of State for European and Eurasian Affairs, should—

(1) pursue updating and modernizing the Agreement on the prevention of incidents on and over the high seas (entered into force with respect to the United States on May 25, 1972; 23 U.S.T. 1063);

(2) explore additional options to reduce the risk of accidents in the air; and

(3) explore the possibility of updating the notifications in the Vienna Document of the Organization for Security and Cooperation in Europe with a view to reducing the risk that the United States, the North Atlantic Treaty Organization, or Russia might misinterpret a military exercise, including pursuing greater use of the Vienna Document's provision that provides for voluntary hosting of visits that seek to dispel possible concern regarding military activities.

SEC. 1237. SENSE OF CONGRESS ON SUPPORT FOR GEORGIA.

(a) FINDINGS.—Congress finds the following:

(1) Georgia is a valued friend of the United States and has repeatedly demonstrated its commitment to advancing the mutual interests of both

countries, including the deployment of Georgian forces as part of the former International Security Assistance Force (ISAF) and the current Resolute Support Mission led by the North Atlantic Treaty Organization (NATO) in Afghanistan and the Multi-National Force in Iraq.

(2) The European Deterrence Initiative builds the partnership capacity of Georgia so it can work more closely with the United States and NATO, as well as provide for its own defense.

(3) In addition to the European Deterrence Initiative, Georgia's participation in the NATO initiative Partnership for Peace is paramount to interoperability with the United States and NATO, and establishing a more peaceful environment in the region.

(4) Despite the losses suffered, as a NATO partner, Georgia is committed to the Resolute Support Mission in Afghanistan with the fourth-largest contingent on the ground.

(b) SENSE OF CONGRESS.—Congress—

(1) reaffirms United States support for Georgia's sovereignty and territorial integrity within its internationally-recognized borders, and does not recognize the independence of the Abkhazia and South

Ossetia regions currently occupied by the Russian Federation; and

(2) supports continued cooperation between the United States and Georgia and the efforts of the Government of Georgia to provide for the defense of its people and sovereign territory.

SEC. 1238. SENSE OF CONGRESS ON SUPPORT FOR ESTONIA, LATVIA, AND LITHUANIA.

(a) FINDINGS.—Congress finds the following:

(1) The Baltic countries of Estonia, Latvia, and Lithuania are highly valued allies of the United States, and they have repeatedly demonstrated their commitment to advancing our mutual interests as well as those of the NATO Alliance.

(2) Operation Atlantic Resolve is a series of exercises and coordinating efforts demonstrating the United States' commitment to its European partners and allies, including the Baltic countries of Estonia, Latvia, and Lithuania, with the shared goal of peace and stability in the region. Operation Atlantic Resolve strengthens communication and understanding, and is an important effort to deter Russian aggression in the region.

(3) Through Operation Atlantic Resolve, the European Deterrence Initiative undertakes exercises,

training, and rotational presence necessary to reassure and integrate our allies, including the Baltic countries, into a common defense framework.

(4) All three Baltic countries contributed to the NATO-led International Security Assistance Force in Afghanistan, sending troops and operating with few caveats. The Baltic countries continue to commit resources and troops to the Resolute Support Mission in Afghanistan.

(b) SENSE OF CONGRESS.—Congress—

(1) reaffirms its support for the principle of collective defense in Article 5 of the North Atlantic Treaty for our NATO allies, including Estonia, Latvia, and Lithuania;

(2) supports the sovereignty, independence, territorial integrity, and inviolability of Estonia, Latvia, and Lithuania as well as their internationally recognized borders, and expresses concerns over increasingly aggressive military maneuvering by the Russian Federation near their borders and airspace;

(3) expresses concern over and condemns subversive and destabilizing activities by the Russian Federation within the Baltic countries; and

(4) encourages the Administration to further enhance defense cooperation efforts with Estonia,

Latvia, and Lithuania and supports the efforts of their Governments to provide for the defense of their people and sovereign territory.

Subtitle E—Matters Relating to the Indo-Pacific Region

SEC. 1241. MODIFICATION OF INDO-PACIFIC MARITIME SECURITY INITIATIVE.

(a) TYPES OF ASSISTANCE AND TRAINING.—Subsection (c)(2)(A) of section 1263 of the National Defense Authorization Act for Fiscal Year 2016 (10 U.S.C. 2282 note) is amended by inserting ''the law of armed conflict, the rule of law, and'' after ''respect for''.

(b) NOTICE TO CONGRESS ON ASSISTANCE AND TRAINING.—Subsection (g)(1) of such section is amended—

(1) in subparagraph (A), by inserting at the end before the period the following: '', the specific unit or units whose capacity to engage in activities under a program of assistance or training to be provided under subsection (a) will be built under the program, and the amount, type, and purpose of the support to be provided'';

(2) by redesignating subparagraph (F) as subparagraph (J); and

(3) by inserting after subparagraph (E) the following new subparagraphs:

"(F) Information, including the amount, type, and purpose, on assistance and training provided under subsection (a) during the three preceding fiscal years, if applicable.

"(G) A description of the elements of the theater campaign plan of the geographic combatant command concerned and the interagency integrated country strategy that will be advanced by the assistance and training provided under subsection (a).

"(H) A description of whether assistance and training provided under subsection (a) could be provided pursuant to—

"(i) section 333 of title 10, United States Code, or other security cooperation authorities of the Department of Defense; or

"(ii) security cooperation authorities of the Department of State.

"(I) An identification of each such authority described in subparagraph (H).".

(c) ANNUAL MONITORING REPORTS.—Such section is amended—

(1) by redesignating subsection (h) as subsection (j); and

(2) by inserting after subsection (g) the following new subsection:

''(h) ANNUAL MONITORING REPORTS.—

''(1) IN GENERAL.—Not later than December 31, 2019, and annually thereafter, the Secretary of Defense shall submit to the appropriate committees of Congress a report setting forth, for the preceding calendar year, the following:

''(A) Information, by recipient foreign country, on the status of funds allocated for assistance and training provided under subsection (a), including funds allocated but not yet obligated or expended.

''(B) Information, by recipient foreign country, on the delivery and use of assistance and training provided under subsection (a).

''(C) Information, by recipient foreign country, on the timeliness of delivery of assistance and training provided under subsection (a) as compared to the timeliness of delivery of assistance and training previously provided to the foreign country under subsection (a).

"(2) APPROPRIATE COMMITTEES OF CONGRESS DEFINED.—In this subsection, the term 'appropriate committees of Congress' has the meaning given the term in subsection (g)(2).".

(d) LIMITATIONS.—Such section, as so amended, is further amended by inserting after subsection (h), as added by subsection (c)(2), the following:

"(i) LIMITATIONS.—

"(1) ASSISTANCE OTHERWISE PROHIBITED BY LAW.—The Secretary of Defense may not use the authority in subsection (a) to provide any type of assistance or training that is otherwise prohibited by any provision of law.

"(2) PROHIBITION ON ASSISTANCE TO UNITS THAT HAVE COMMITTED GROSS VIOLATIONS OF HUMAN RIGHTS.—The provision of assistance and training pursuant to a program under subsection (a) shall be subject to the provisions of section 362 of title 10, United States Code.

"(3) ASSESSMENT, MONITORING, AND EVALUATION OF PROGRAMS AND ACTIVITIES.—The provision of assistance and training pursuant to a program under subsection (a) shall be subject to the provisions of section 383 of title 10, United States Code.".

(e) REPORT.—

(1) IN GENERAL.—Not later than January 31, 2020, the Secretary of Defense, with the concurrence of the Secretary of State, shall submit to the appropriate congressional committees a report on the implementation of the Indo-Pacific Maritime Security Initiative under section 1263 of the National Defense Authorization Act for Fiscal Year 2016, as amended by this section.

(2) MATTERS TO BE INCLUDED.—The report required by paragraph (1) shall include the following:

(A) Objectives of the Initiative, including—

(i) a discussion of United States security requirements that are satisfied or enhanced under the Initiative; and

(ii) an assessment of progress toward each such objective and the metrics used to assess such progress.

(B) A discussion of how the Initiative relates to, complements, or overlaps with other United States security cooperation and security assistance authorities.

(C) A description of the process and criteria by which the utilization of each such au-

thority or authorities described in subparagraph (B) is determined.

(D) An assessment, by recipient foreign country, of—

(i) the country's capabilities relating to maritime security and maritime domain awareness;

(ii) the country's capability enhancement priorities, including how such priorities relate to the theater campaign strategy, country plan, and theater campaign plan relating to maritime security and maritime domain awareness;

(E) A discussion, by recipient foreign country, of—

(i) priority capabilities that the Department of Defense plans to enhance under the Initiative and priority capabilities the Department plans to enhance under separate United States security cooperation and security assistance authorities; and

(ii) the anticipated timeline for assistance and training for each such capability.

(F) Information, by recipient foreign country, on the delivery and use of assistance and training provided under the Initiative.

(G) Any other matters the Secretary of Defense determines should be included.

(3) FORM.—The report required by paragraph (1) shall be submitted in unclassified form without any designation relating to dissemination control, but may include a classified annex.

(4) DEFINITION.—In this section, the term ''appropriate congressional committees'' means—

(A) the congressional defense committees; and

(B) the Committee on Foreign Relations of the Senate and the Committee on Foreign Affairs of the House of Representatives.

SEC. 1242. EXTENSION AND MODIFICATION OF REPORT ON MILITARY AND SECURITY DEVELOPMENTS INVOLVING NORTH KOREA.

(a) EXTENSION.—Subsection (a) of section 1236 of the National Defense Authorization Act for Fiscal Year 2012 (Public Law 112–81; 125 Stat. 1641) is amended—

(1) by striking ''and November 1, 2017'' and inserting ''November 1, 2017, April 1, 2020, and April 1, 2021''; and

(2) by inserting ''(without any designation relating to dissemination control)'' after ''unclassified''.

(b) ADDITIONAL MATTERS TO BE INCLUDED.—Subsection (b) of such section is amended—

(1) by redesignating paragraph (8) as paragraph (9); and

(2) by inserting after paragraph (7) the following new paragraph:

''(8) Developments in North Korea's nuclear program, including the size and state of North Korea's stockpile of nuclear weapons, its nuclear strategy and associated doctrines, its civil and military production capacities, and projections of its future arsenals.''.

SEC. 1243. LIMITATION ON USE OF FUNDS TO REDUCE THE TOTAL NUMBER OF MEMBERS OF THE ARMED FORCES SERVING ON ACTIVE DUTY WHO ARE DEPLOYED TO SOUTH KOREA.

None of the funds authorized to be appropriated by this Act may be used to reduce the total number of members of the Armed Forces serving on active duty who are deployed to South Korea below 28,500 unless the Secretary of Defense first certifies to the congressional defense committees the following:

(1) Such a reduction is in the national security interest of the United States and will not significantly undermine the security of United States allies in the region.

(2) The Secretary has appropriately consulted with allies of the United States, including South Korea and Japan, regarding such a reduction.

SEC. 1244. REPORT ON DIRECT, INDIRECT, AND BURDEN-SHARING CONTRIBUTIONS OF JAPAN AND SOUTH KOREA.

(a) IN GENERAL.—Not later than March 1, 2020, and March 1, 2021, the Secretary of Defense shall submit to the appropriate congressional committees a report on the direct, indirect, and burden-sharing contributions of Japan and South Korea to support overseas military installations of the United States and United States Armed Forces deployed to or permanently stationed in Japan and South Korea, respectively.

(b) ELEMENTS.—The report required by subsection (a) shall include the following:

(1) The benefits to United States national security and regional security derived from the forward presence of United States Armed Forces in the Indo-Pacific region, including Japan and South Korea.

(2) For calendar year 2016 and each subsequent calendar year, a description of the one-time and recurring costs associated with the presence of United States Armed Forces in Japan and South Korea, including—

(A) costs to relocate the Armed Forces within Japan and South Korea and to realign the Armed Forces from Japan and South Korea;

(B) military personnel costs;

(C) operation and maintenance costs; and

(D) military construction costs.

(3) A description of direct, indirect, and burden-sharing contributions of Japan and South Korea, including—

(A) contributions for labor costs associated with the presence of United States Armed Forces;

(B) contributions to military construction projects of the Department of Defense, including planning, design, environmental reviews, construction, construction management costs, rents on privately-owned land, facilities, labor, utilities, and vicinity improvements;

(C) contributions such as loan guarantees on public-private venture housing and payment-in-kind for facilities returned to Japan and South Korea;

(D) contributions accepted for labor, logistics, utilities, facilities, and any other purpose; and

(E) other contributions as determined appropriate by the Secretary.

(4) The methodology and accounting procedures used to measure and track direct, indirect, and burden-sharing contributions made by Japan and South Korea.

(c) DESCRIPTION OF CONTRIBUTIONS IN UNITED STATES DOLLARS.—The report required by subsection (a) shall describe the direct, indirect, and burden-sharing contributions of Japan and South Korea in United States dollars and shall specify the exchange rates used to determine the United States dollar value of such contributions.

(d) FORM.—The report required by subsection (a) shall be submitted in unclassified form without any designation relating to dissemination control, but may contain a classified annex.

(e) APPROPRIATE CONGRESSIONAL COMMITTEES DEFINED.—In this section, the term ''appropriate congressional committees'' means—

(1) the congressional defense committees; and

(2) the Committee on Foreign Relations of the Senate and the Committee on Foreign Affairs of the House of Representatives.

SEC. 1245. REPORT ON STRATEGY ON THE PHILIPPINES.

(a) STRATEGY REQUIRED.—Not later than 120 days after the date of the enactment of this Act, the Secretary of Defense, in consultation with the Secretary of State, shall submit to the appropriate congressional committees a report describing the Department of Defense's objectives and strategy for achieving such objectives with the Philippines.

(b) ELEMENTS OF STRATEGY.—The strategy required by subsection (b) shall include the following:

(1) A description of the national security interests and objectives of the United States furthered by the Mutual Defense Treaty between the Republic of the Philippines and the United States of America.

(2) A description of the regional security environment, including an assessment of threats to United States national security interests and the

role of the Department of Defense in addressing such threats, including—

(A) a description of security challenges detrimental to regional peace and global stability;

(B) a description of violent extremist organizations present in the Philippines and the primary objectives of each such organization, including—

(i) an assessment of the size and capability of each such organization;

(ii) an assessment of the transnational threat posed by each such organization;

(iii) an assessment of recent trends in the capability and influence of each such organization; and

(iv) a description of the metrics used to assess the capability and influence of each such organization.

(3) A description of Department of Defense objectives with respect to the Philippines and the benchmarks for assessing progress towards such objectives.

(4) An identification of all current and planned Department of Defense resources, programs, and ac-

tivities to support the strategy, including a review of the necessity of an ongoing named operation and the criteria used to determine such necessity.

(5) An identification of all current and planned Department of Defense security cooperation and other support or assistance programs or activities in the Philippines, including—

(A) a description of the purpose, objectives, and type of training, equipment, or assistance provided under each such program or activity;

(B) an identification of the lead agency responsible for each such program or activity;

(C) an identification of the authority or authorities under which each such program or activity is conducted;

(D) a description of the process and criteria used to determine utilization between each such authority or authorities;

(E) a description of how each such program or activity advances United States national security interests as it relates to the Department's strategy on the Philippines;

(F) an identification of the specific units of the Philippine national security forces to receive

training, equipment, or assistance under each such program;

(G) a description of the process and criteria by which specific units of the Philippine national security forces are selected as recipients of such programs and activities;

(H) an assessment of the current operational effectiveness of such units and their command and control structures and a description of the metrics used to make and carry out such assessment;

(I) an identification of priority capabilities of such units to enhance through training, equipment, or assistance under each such program or activity;

(J) a plan to monitor and assess each such program or activity to meet its objectives to enhance the capabilities of each such unit;

(K) a description of the planned posture of United States Armed Forces and the planned level of engagement by such forces with elements of the Philippine national security forces; and

(L) an identification of—

(i) units of the Philippine national security forces that are alleged or determined to have committed human rights abuses; and

(ii) units of the Philippine national security forces that are under the command and control of any unit identified under clause (i) or otherwise associated with any such unit.

(6) A description of relations of the Philippines with other countries in the Indo-Pacific region.

(7) Any other matters the Secretary of Defense determines should be included.

(c) FORM.—The strategy required by subsection (b) shall be submitted in unclassified form without any designation relating to dissemination control, but may contain a classified annex.

(d) APPROPRIATE CONGRESSIONAL COMMITTEES DEFINED.—In this section, the term ''appropriate congressional committees'' means—

(1) the congressional defense committees; and

(2) the Committee on Foreign Relations of the Senate and the Committee on Foreign Affairs of the House of Representatives.

SEC. 1246. MODIFICATION OF ANNUAL REPORT ON MILITARY AND SECURITY DEVELOPMENTS INVOLVING THE PEOPLE'S REPUBLIC OF CHINA.

(a) ANNUAL REPORT.—Subsection (a) of section 1202 of the National Defense Authorization Act for Fiscal Year 2000 (10 U.S.C. 113 note) is amended by inserting ", in consultation with the heads of other Federal departments and agencies as appropriate," after "the Secretary of Defense".

(b) MATTERS TO BE INCLUDED.—Subsection (b) of such section is amended by striking paragraph (26) and inserting the following:

"(26) An assessment of Chinese overseas investment, including a state-owned or controlled digital or physical infrastructure project of China, and their relationship to Chinese security and military objectives, including implications for United States military or government interests related to denial of access, compromised intelligence activities, and network advantages.".

(c) SPECIFIED CONGRESSIONAL COMMITTEES.—Subsection (c) of such section is amended—

(1) in paragraph (1), by striking "and the Committee on Foreign Relations" and inserting ", the

Committee on Foreign Relations, and the Select Committee on Intelligence''; and

(2) in paragraph (2), by striking ''and the Committee on International Relations'' and inserting '', the Committee on Foreign Affairs, and the Permanent Select Committee on Intelligence''.

(d) OTHER DEFINITIONS.—Such section, as so amended, is further amended—

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

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

''(d) OTHER DEFINITIONS.—

''(1) IN GENERAL.—In subsection (b)(26), the term 'state-owned or controlled digital or physical infrastructure project of China' means a transportation, energy, or information technology infrastructure project owned, controlled, under the direct or indirect influence of, or subsidized by the Government of China, including any agency, instrumentality, subdivision, or other unit of government at any level of jurisdiction.

''(2) OWNED; CONTROLLED.—In paragraph (1)—

"(A) the term 'owned', with respect to a project, means a majority or controlling interest, whether by value or voting interest, in that project, including through fiduciaries, agents, or other means; and

"(B) the term 'controlled', with respect to a project, means—

"(i) the power by any means to determine or influence, directly or indirectly, important matters affecting the project, regardless of the level of ownership and whether or not that power is exercised; and

"(ii) any Chinese company operating in a sector identified as a strategic industry in the Chinese Government's 'Made in China 2025' strategy to make China a 'manufacturing power' as a core national interest.".

SEC. 1247. MODIFICATION OF ANNUAL REPORT ON MILITARY AND SECURITY DEVELOPMENTS INVOLVING THE PEOPLE'S REPUBLIC OF CHINA.

(a) ANNUAL REPORT.—Subsection (a) of section 1202 of the National Defense Authorization Act for Fiscal Year 2000 (10 U.S.C. 113 note) is amended by inserting

1 ", in consultation with the heads of other Federal depart-
2 ments and agencies as appropriate," after "the Secretary
3 of Defense".

4 (b) MATTERS TO BE INCLUDED.—Subsection (b) of
5 such section is amended by adding at the end the fol-
6 lowing:

7 "(29) Developments relating to the China Coast
8 Guard (in this paragraph referred to as the 'CCG'),
9 including an assessment of—

10 "(A) how the change in the CCG's com-
11 mand structure to report to China's Central
12 Military Commission affects the CCG's status
13 as a law enforcement entity;

14 "(B) the implications of the CCG's com-
15 mand structure with respect to the use of the
16 CCG as a coercive tool in 'gray zone' activity in
17 the East China Sea and the South China Sea;
18 and

19 "(C) how the change in the CCG's com-
20 mand structure may affect interactions between
21 the CCG and the United States Navy.".

22 (c) SPECIFIED CONGRESSIONAL COMMITTEES.—Sub-
23 section (c) of such section is amended—

24 (1) in paragraph (1), by striking "and the Com-
25 mittee on Foreign Relations" and inserting ", the

Committee on Foreign Relations, and the Select Committee on Intelligence''; and

(2) in paragraph (2), by striking ''and the Committee on International Relations'' and inserting '', the Committee on Foreign Affairs, and the Permanent Select Committee on Intelligence''.

SEC. 1248. SENSE OF CONGRESS ON TAIWAN.

It is the sense of Congress that—

(1) the Taiwan Relations Act (22 U.S.C. 3301 et seq.) and the ''Six Assurances'' are both cornerstones of United States relations with Taiwan;

(2) the United States should continue to strengthen defense and security cooperation with Taiwan to support the development of capable, ready, and modern defense forces necessary for Taiwan to maintain a sufficient self-defense capability, including capabilities in support of an asymmetric defense strategy;

(3) the United States should continue to support the acquisition by Taiwan of appropriate defensive weapons through foreign military sales, direct commercial sales, and industrial cooperation, with a particular emphasis on asymmetric warfare, information sharing, air defense, and maritime capabilities, consistent with the Taiwan Relations Act;

(4) the United States should improve the predictability of arms sales to Taiwan by ensuring timely review of and response to requests of Taiwan for defense articles and defense services as well as timely notification to Congress and adherence to congressional oversight and review procedures; and

(5) the Secretary of Defense, in consultation with the Secretary of State, should promote policies concerning cooperation and exchanges that enhance the security of Taiwan, including exchanges between senior defense officials and general officers of the United States and Taiwan consistent with the Taiwan Travel Act (Public Law 115–135).

SEC. 1249. ENHANCING DEFENSE COOPERATION WITH SINGAPORE.

It is the sense of Congress that—

(1) the United States Armed Forces and Singaporean armed forces have built a strong and enduring security partnership based on long-standing and mutually beneficial cooperation;

(2) security cooperation between the United States Armed Forces and Singaporean armed forces is crucial to promoting peace and stability in the Asia-Pacific region;

(3) Singapore's status as a major security cooperation partner of the United States, as recognized in the ''2005 Strategic Framework Agreement between the United States and the Republic of Singapore for a Closer Partnership in Defense and Security'', has an important role in the promotion of peace and stability, and global efforts to counter terrorism;

(4) Singapore's provision of access to its military facilities for the United States has supported the continued security presence of the United States in Southeast Asia;

(5) the Singaporean armed forces' support of United States-led multinational reconstruction efforts in Iraq from 2003 to 2008, reconstruction and stabilization efforts in Afghanistan from 2007 to 2013, counter-piracy operations in the Gulf of Aden under the ambit of Combined Task Force 151, and contribution of physical and military assets to the Defeat-ISIS Coalition since 2014, has contributed to global efforts to counter terrorism;

(6) in recognition of the enduring security partnership between the United States and Singapore, the Secretary of State, in consultation with the Secretary of Defense, should, in negotiating the renewal

of the "1990 Memorandum of Understanding Regarding the United States Use of Facilities in Singapore" that is due in 2020:

(A) reinforce Singapore's status as a major security cooperation partner of the United States;

(B) enhance defense cooperation; and

(C) increase interoperability between the United States Armed Forces and Singaporean armed forces to promote peace and stability in the Asia-Pacific region.

Subtitle F—Matters Relating to Europe and NATO

SEC. 1251. EXTENSION AND MODIFICATION OF NATO SPECIAL OPERATIONS HEADQUARTERS.

(a) AUTHORIZATION.—Subsection (a) of section 1244 of the National Defense Authorization Act for Fiscal Year 2010 (Public Law 111–84; 123 Stat. 2541) is amended by striking "2020" and inserting "2023".

(b) REPEAL OF CERTIFICATION; LIMITATION.—Such section is amended—

(1) by striking subsection (c); and

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

"(c) LIMITATION.—Of the amounts made available under subsection (a) for fiscal year 2020, not more than 90 percent of such amounts may be obligated or expended until the Secretary of Defense, acting through the Assistant Secretary of Defense for Special Operations and Low Intensity Conflict, submits to the congressional defense committees a report on the rearrangement of responsibilities for overseeing and supporting NSHQ from U.S. Special Operations Command to U.S. European Command in 2019, including—

"(1) a justification and description of the impact of such rearrangement; and

"(2) a description of how such rearrangement will strengthen the role of the NSHQ in fostering special operations capabilities within NATO.".

(c) ANNUAL REPORT.—Such section, as so amended, is further amended by adding at the end the following new subsection:

"(d) ANNUAL REPORT.—Not later than March 1 of each year until 2024, the Secretary of Defense shall submit to the congressional defense committees and the Committee on Foreign Relations of the Senate and the Committee on Foreign Affairs of the House of Representatives a report regarding support for the NSHQ. Each report shall include the following:

"(1) The total amount of funding provided by the United States and other NATO nations to the NSHQ for operating costs of the NSHQ.

"(2) A description of the activities carried out with such funding, including—

"(A) the amount of funding allocated for each such activity;

"(B) the extent to which other NATO nations participate in each such activity;

"(C) the extent to which each such activity is carried out in coordination or cooperation with the Joint Special Operations University;

"(D) the extent to which each such activity is carried out in relation to other security cooperation activities, exercises, or operations of the Department of Defense;

"(E) the extent to which each such activity is designed to meet the purposes set forth in paragraphs (1) through (5) of subsection (b); and

"(F) an assessment of the extent to which each such activity will promote the mission of the NSHQ.

"(3) Other contributions, financial or in kind, provided by the United States and other NATO nations in support of the NSHQ.

"(4) Any other matters that the Secretary of Defense considers appropriate.".

SEC. 1252. MODIFICATION AND EXTENSION OF FUTURE YEARS PLAN AND PLANNING TRANSPARENCY FOR THE EUROPEAN DETERRENCE INITIATIVE.

(a) PLAN REQUIRED.—Section 1273(a) of the National Defense Authorization Act for Fiscal Year 2018 (Public Law 115–91; 131 Stat. 1696) is amended—

(1) in paragraph (1), by striking "the date of the enactment of this Act" and inserting "the date of the enactment of the National Defense Authorization Act for Fiscal Year 2020, and annually thereafter"; and

(2) in paragraph (2) to read as follows:

"(2) APPLICABILITY.—The initial plan shall apply with respect to fiscal year 2021 and at least the four succeeding fiscal years and each subsequent plan shall apply with respect to the next subsequent fiscal year and at least the four succeeding fiscal years.".

(b) BUDGET DISPLAY INFORMATION.—The Secretary of Defense shall include in the materials submitted to Congress by the Secretary in support of the budget of the President for fiscal year 2021 and each fiscal year thereafter (as submitted under section 1105 of title 31, United States Code), a detailed budget display for the European Deterrence Initiative that includes the following information (regardless of whether the funding line is for overseas contingency operations):

(1) With respect to procurement accounts—

(A) amounts displayed by account, budget activity, line number, line item, and line item title; and

(B) a description of the requirements for each such amounts specific to the Initiative.

(2) With respect to research, development, test, and evaluation accounts—

(A) amounts displayed by account, budget activity, line number, program element, and program element title; and

(B) a description of the requirements for each such amounts specific to the Initiative.

(3) With respect to operation and maintenance accounts—

(A) amounts displayed by account title, budget activity title, line number, and subactivity group title; and

(B) a description of how such amounts will specifically be used.

(4) With respect to military personnel accounts—

(A) amounts displayed by account, budget activity, budget subactivity, and budget subactivity title; and

(B) a description of the requirements for each such amounts specific to the Initiative.

(5) With respect to each project under military construction accounts (including with respect to unspecified minor military construction and amounts for planning and design), the country, location, project title, and project amount by fiscal year.

SEC. 1253. PROTECTION OF EUROPEAN DETERRENCE INITIATIVE FUNDS FROM DIVERSION FOR OTHER PURPOSES.

(a) REPORT ON OBLIGATION OF FUNDS.—

(1) IN GENERAL.—Not later than 15 days after any obligation of funds in an amount of $10,000,000 or more for the European Deterrence Initiative for fiscal year 2020 and each fiscal year

thereafter, the Secretary of Defense shall submit to the congressional defense committees a report on that obligation of such funds for that fiscal year.

(2) MATTERS TO BE INCLUDED.—Each report under paragraph (1) shall specify—

(A) the activities and forms of assistance for which the Secretary obligated such funds; and

(B) the amount of the obligation.

(b) END OF FISCAL YEAR REPORT.—Not later than November 30, 2020, and annually thereafter, the Secretary of Defense shall submit to the congressional defense committees a report that contains—

(1) a detailed summary of funds obligated for the European Deterrence Initiative for the preceding fiscal year; and

(2) a detailed comparison of funds obligated for the European Deterrence Initiative for the preceding fiscal year to amounts requested for the Initiative for that fiscal year in the materials submitted to Congress by the Secretary in support of the budget of the President for that fiscal year as required by section 1252(b), including with respect to each of the accounts described in paragraphs (1), (2), (3),

(4), and (5) of section 1252(b) and the information required under each such paragraph.

SEC. 1254. STATEMENT OF POLICY ON UNITED STATES MILITARY INVESTMENT IN EUROPE.

It is the policy of the United States to develop, implement, and sustain a credible deterrent against aggression and long-term strategic competition by the Government of Russia in order to enhance regional and global security and stability, including by the following:

(1) Increased United States presence in Europe, including additional permanently stationed forces, continued rotational deployments, increased pre-positioned military equipment, and sufficient and necessary infrastructure additions and improvements throughout Europe.

(2) Planning regarding the United States military footprint in Europe to recognize the essential role played by United States allies and partners in establishing deterrence and advancing regional and global security and stability.

(3) Commitment to the North Atlantic Treaty Organization (NATO) and its founding values and commitments by NATO allies to the common defense, including NATO goals regarding defense in-

vestments, and to NATO's founding principles of democracy, individual liberty, and the rule of law.

(4) Planning to ensure the United States military footprint in Europe is holistic and geographically appropriate for a comprehensive response to the challenges posed by the Government of Russia across numerous European fronts.

(5) Commitment to United States Government investment and prioritization of efforts in Europe, particularly through efforts led by the Department of State, to counter the Government of Russia's global campaign to interfere in and undermine democratic systems of government, elections, values, and institutions, and disrupt United States alliances and partnerships, through indirect action (such as information operations intended to influence), including robust information sharing and cooperation with partners and allies to counter influence campaigns and sufficient cyber, counter-messaging, and intelligence resources.

(6) Planning to take into account the importance of strategic stability, arms control, and strategic dialogue as they contribute to United States national security, collective defense, and regional and global security.

(7) Encouraging increased communication by NATO officials, to raise awareness of the Alliance's mission, efforts, and concerns achieved by actively engaging with Congress and the executive branch.

SEC. 1255. LIMITATION ON TRANSFER OF F–35 AIRCRAFT TO TURKEY.

(a) LIMITATION.—Except as provided in subsection (b), no funds authorized to be appropriated or otherwise made available to the Department of Defense for fiscal year 2020 may be obligated or expended—

(1) to transfer, facilitate the transfer, or authorize the transfer of, any F–35 aircraft or related support equipment or parts to Turkey;

(2) to transfer intellectual property, technical data, or material support necessary for or related to any maintenance or support of the F–35 aircraft necessary to establish Turkey's indigenous F–35 capability; or

(3) to construct a storage facility for, or otherwise facilitate the storage in Turkey of, any F–35 aircraft transferred to Turkey.

(b) EXCEPTION.—The Secretary of Defense, jointly with the Secretary of State, may waive the limitation under subsection (a) only if such Secretaries submit to the appropriate congressional committees a written certifi-

cation that contains a determination of such Secretaries, and any relevant documentation that forms the basis for the determination, that—

(1) the Government of Turkey has provided credible assurances that Turkey will not accept delivery of the S–400 air and missile defense system from Russia; or

(2) if the Government of Turkey has previously accepted delivery of the S–400 air and missile defense system from the Russia, the Government of Turkey—

(A) no longer possesses the S–400 air and missile defense system or any other equipment, materials, or personnel associated with such system; and

(B) has provided credible assurances that it will not in the future accept delivery of the S–400 air and missile defense system.

(c) APPLICABILITY.—The limitation under subsection (a) does not apply with respect to F–35 aircraft operated by the United States Armed Forces.

(d) DEFINITIONS.—In this section:

(1) APPROPRIATE CONGRESSIONAL COMMITTEES.—The term ''appropriate congressional committees'' means—

(A) the congressional defense committees; and

(B) the Committee on Foreign Relations of the Senate and the Committee on Foreign Affairs of the House of Representatives.

(2) TRANSFER.—The term ''transfer'' includes, with respect to an F–35 aircraft, the physical relocation of the F–35 aircraft outside of the United States.

SEC. 1256. REPORT ON VALUE OF INVESTMENTS IN DUAL USE INFRASTRUCTURE PROJECTS BY NATO MEMBER STATES.

(a) IN GENERAL.—Not later than June 1, 2020, the Secretary of Defense, jointly with the Secretary of State, shall submit to the appropriate congressional committees a report on the value of investments in dual use infrastructure projects by the member states of the North Atlantic Treaty Organization (NATO) in order to improve military mobility and interoperability across Europe.

(b) ELEMENTS.—The report required by subsection (a) shall include the following:

(1) The value to collective deterrence provided by investments in dual use infrastructure projects by the member states of NATO in order to meet the

military mobility goals set out at the 2018 NATO Summit in Brussels.

(2) An assessment of proposed dual use infrastructure projects for NATO.

(3) A assessment of proposed of dual use infrastructure projects with respect to which the United States can provide support, including a recommended prioritization of such projects.

(c) FORM.—The report required by subsection (a) shall be submitted in unclassified form, but may include a classified annex.

(d) DEFINITIONS.—In this section:

(1) APPROPRIATE CONGRESSIONAL COMMITTEES.—The term ''appropriate congressional committees'' means—

(A) the congressional defense committees; and

(B) the Committee on Foreign Relations of the Senate and the Committee on Foreign Affairs of the House of Representatives.

(2) DUAL USE INFRASTRUCTURE PROJECTS.—The term ''dual use infrastructure projects'' means those projects identified by the European Commission Action Plan on Military Mobility as necessary to improve the trans-European transport network

(TEN-T) to meet the military requirements for military mobility within and beyond the European Union.

SEC. 1257. SENSE OF CONGRESS ON SUPPORT FOR POLAND.

(a) FINDINGS.—Congress makes the following findings:

(1) Poland has been a valued member of the North Atlantic Treaty Organization (NATO) since 1999 and an important ally of the United States, contributing to the collective defense of NATO allies and deterrence in Europe.

(2) Poland has made significant contributions of forces to United States and NATO-led military operations in Afghanistan, Iraq, Kosovo, and countering the Islamic State in Iraq and Syria.

(3) Poland contributed at least 2 percent of its gross domestic product to defense spending in 2018, meeting its commitment under the Wales Declaration.

(4) Poland currently hosts on a rotational basis United States forces from the Armored Combat Brigade Team, a Combat Aviation Brigade, a NATO enhanced Forward Presence Battalion, and a U.S. Aegis Ashore missile defense site.

(b) SENSE OF CONGRESS.—It is the sense of Congress that—

(1) the United States reaffirms its support for the principle of collective defense in Article 5 of the North Atlantic Treaty for its NATO allies, including Poland;

(2) the United States appreciates the important role that Poland plays in NATO efforts to sustain credible deterrence in Europe;

(3) the United States supports continued defense cooperation and continued exploration of opportunities for joint military cooperation, infrastructure enhancement, and defense investment with Poland; and

(4) the current and planned projects in Poland funded by the European Deterrence Initiative should be fully implemented in order to support existing and future United States military activity.

Subtitle G—Other Matters

SEC. 1261. SENSE OF CONGRESS ON UNITED STATES PARTNERS AND ALLIES.

It is the sense of Congress that—

(1) United States partners and allies are critical to achieving United States national security interests and defense objectives around the world;

(2) strong military-to-military relationships with partners and allies have helped to solidify and undergird the post-World War II international order and enhanced the United States' security through common defense; and

(3) the United States should pursue a long-term policy to strengthen existing military-to-military relationships and cooperation with partners and allies to achieve mutual objectives, and build new relationships based on common values and shared interests.

SEC. 1262. MODIFICATION TO REPORT ON LEGAL AND POLICY FRAMEWORKS FOR THE USE OF MILITARY FORCE.

Section 1264 of the National Defense Authorization Act for Fiscal Year 2018 (Public Law 115–91; 131 Stat. 1689) is amended—

(1) in the heading for subsection (a), by striking "INITIAL" and inserting "ANNUAL";

(2) in subsection (a)(1), by striking "90 days after the date of the enactment of this Act" and inserting "March 1 of each year"; and

(3) in subsection (a)(2), by striking "during the period" and all that follows to the end and inserting "from the preceding year.".

SEC. 1263. LIMITATION ON AVAILABILITY OF CERTAIN FUNDS UNTIL REPORT SUBMITTED ON DEPARTMENT OF DEFENSE AWARDS AND DISCIPLINARY ACTION AS A RESULT OF THE 2017 INCIDENT IN NIGER.

Of the funds authorized to be appropriated by this Act or otherwise made available for fiscal year 2020 for Operation and Maintenance, Defense-Wide, Office of the Secretary of Defense, for Travel of Persons, not more than 80 percent of such funds may be obligated or expended until the date on which the Secretary of Defense submits to the congressional defense committees a report that contains a description of each award and disciplinary action issued, by rank, as a result of the AR 15-6 investigation findings relating to the incident in Niger in 2017. The report shall be submitted in a format that protects personally identifiable information and is consistent with national security.

SEC. 1264. INDEPENDENT ASSESSMENT OF SUFFICIENCY OF RESOURCES AVAILABLE TO UNITED STATES SOUTHERN COMMAND AND UNITED STATES AFRICA COMMAND.

(a) IN GENERAL.—The Secretary of Defense shall seek to enter into a contract with a not-for-profit entity or federally funded research and development center independent of the Department of Defense to conduct an as-

sessment of the sufficiency of resources available to United States Southern Command and United States Africa Command to carry out their respective missions.

(b) MATTERS TO BE INCLUDED.—The assessment described in subsection (a) shall include—

(1) an assessment of the sufficiency of the resources available to United States Southern Command and United States Africa Command, including personnel, human resources, and financial resources, in promoting United States national security interests;

(2) an assessment of the level of regional expertise and experience of the leadership of each such combatant command and their subordinate organizations, service components, and task forces, to include personnel from agencies other than the Department of Defense;

(3) a description of the strategic objectives and end states in the geographic region for which each such combatant command has responsibility and a comparison of the importance and priority of the resources available to each such combatant command to perform its mission; and

(4) an assessment of the ability of each such combatant command to carry out such strategic ob-

jectives and end states, including an assessment of resources available, forces available, and other interagency resources available to the combatant command.

(c) ACCESS TO INFORMATION.—The not-for-profit entity or federally funded research and development center with which the Secretary enters into the contract under subsection (a) shall have full and direct access to all information related to resources available to United States Southern Command and United States Africa Command.

(d) REPORT.—

(1) IN GENERAL.—Not later than 240 days after the date of the enactment of this Act, the not-for-profit entity or federally funded research and development center with which the Secretary of Defense enters into the contract under subsection (a) shall submit to the Secretary of Defense, the Secretary of State, and the Administrator of the United States Agency for International Development a report that contains the assessment required by subsection (a).

(2) SUBMISSION TO CONGRESS.—Not later than 1 year after the date of the enactment of this Act, the Secretary of Defense shall submit to the appropriate congressional committees—

(A) a copy of such report without change; and

(B) any comments, changes, recommendations, or other information of the Secretary of Defense, the Secretary of State, and the Administrator of the United States Agency for International Development relating to the assessment required by subsection (a) and contained in such report.

(e) APPROPRIATE CONGRESSIONAL COMMITTEES DEFINED.—In this section, the term ''appropriate congressional committees'' means—

(1) the congressional defense committees; and

(2) the Committee on Foreign Relations of the Senate and the Committee on Foreign Affairs of the House of Representatives.

SEC. 1265. RULE OF CONSTRUCTION RELATING TO USE OF MILITARY FORCE.

Nothing in this Act or any amendment made by this Act may be construed to authorize the use of military force.

SEC. 1266. RULE OF CONSTRUCTION RELATING TO USE OF MILITARY FORCE AGAINST VENEZUELA.

Nothing in this Act or any amendment made by this Act may be construed to authorize the use of military force against Venezuela.

SEC. 1267. SENSE OF CONGRESS ON ACQUISITION BY TURKEY OF PATRIOT SYSTEM.

(a) FINDINGS.—Congress finds the following:

(1) The Government of Turkey has indicated in a communication to Congress that there remains an opportunity to meet Turkey's requirement for an air and missile defense capability through the acquisition of the Patriot system from the United States.

(2) The acquisition of the Patriot system could remove the need to acquire the S-400 air and missile defense system from Russia, which is incompatible with the integrated air and missile defense system of the North Atlantic Treaty Organization (NATO) and should preclude Turkey's participation in the F-35 Joint Strike Fighter (JSF) consortium program with the United States.

(b) SENSE OF CONGRESS.—Congress—

(1) supports the efforts of the United States Government to achieve a satisfactory arrangement with Turkey by which Turkey acquires the Patriot system to defend its airspace, which would preserve

Turkey as a production partner in the F-35 JSF consortium program;

(2) encourages the Department of Defense to secure the deployment of a Patriot system to Turkey, under United States or NATO operational control, for the purpose of providing Turkey with an interim capability to address urgent vulnerabilities in Turkey's air and missile defense during the period in which an agreement is reached for Turkey's acquisition of the Patriot system; and

(3) notes that any such deployment of the Patriot or a NATO interoperable system in the interim is contingent on Turkey's commitment to cancel the S-400 air and missile defense system acquisition.

Subtitle H—Baltic Reassurance Act

SEC. 1271. FINDINGS.

Congress finds the following:

(1) Russia seeks to diminish the North Atlantic Treaty Organization (NATO) and recreate its sphere of influence in Europe using coercion, intimidation, and outright aggression.

(2) Deterring Russia from such aggression is vital for transatlantic security.

(3) The illegal occupation of Crimea by Russia and its continued engagement of destabilizing and

subversive activities against independent and free states is of increasing concern.

(4) Russia also continues to disregard treaties, international laws and rights to freedom of navigation, territorial integrity, and sovereign international borders.

(5) Russia's continued occupation of Georgian and Ukrainian territories and the sustained military buildup in Russia's Western Military District and Kaliningrad has threatened continental peace and stability.

(6) The Baltic countries of Estonia, Latvia, and Lithuania are particularly vulnerable to an increasingly aggressive and subversive Russia.

(7) In a declaration to celebrate 100 years of independence of Estonia, Latvia, and Lithuania issued on April 3, 2018, the Trump Administration reaffirmed United States commitments to these Baltic countries to ''improve military readiness and capabilities through sustained security assistance'' and ''explore new ideas and opportunities, including air defense, bilaterally and in NATO, to enhance deterrence across the region''.

(8) These highly valued NATO allies of the United States have repeatedly demonstrated their

commitment to advancing mutual interests as well as those of the NATO alliance.

(9) The Baltic countries also continue to participate in United States-led exercises to further promote coordination, cooperation, and interoperability among allies and partner countries, and continue to demonstrate their reliability and commitment to provide for their own defense.

(10) Lithuania, Latvia, and Estonia each hosts a respected NATO Center of Excellence that provides expertise to educate and promote NATO allies and partners in areas of vital interest to the alliance.

(11) United States support and commitment to allies across Europe has been a lynchpin for peace and security on the continent for over 70 years.

SEC. 1272. SENSE OF CONGRESS.

It is the sense of Congress as follows:

(1) The United States is committed to the security of the Baltic countries and should strengthen cooperation and support capacity-building initiatives aimed at improving the defense and security of such countries.

(2) The United States should lead a multilateral effort to develop a strategy to deepen joint capabilities with Lithuania, Latvia, Estonia, NATO al-

lies, and other regional partners, to deter against aggression from Russia in the Baltic region, specifically in areas that would strengthen interoperability, joint capabilities, and military readiness necessary for Baltic countries to strengthen their national resilience.

(3) The United States should explore the feasibility of providing additional air and missile defense systems in the Baltic region, including through leveraging cost-sharing mechanisms and multilateral deployment with NATO allies to reduce financial burdens on host countries.

SEC. 1273. DEFENSE ASSESSMENT.

(a) IN GENERAL.—Not later than 1 year after the date of the enactment of this Act, the Secretary of Defense and the Secretary of State shall jointly conduct a comprehensive, multilateral assessment of the military requirements of such countries to deter and resist aggression by Russia that—

(1) provides an assessment of past and current initiatives to improve the efficiency, effectiveness, readiness and interoperability of Lithuania, Latvia, and Estonia's national defense capabilities; and

(2) assesses the manner in which to meet those objectives, including future resource requirements

and recommendations, by undertaking activities in the following areas:

(A) Activities to increase the rotational and forward presence, improve the capabilities, and enhance the posture and response readiness of the United States or forces of NATO in the Baltic region.

(B) Activities to improve air defense systems, including modern air-surveillance capabilities.

(C) Activities to improve counter-unmanned aerial system capabilities.

(D) Activities to improve command and control capabilities through increasing communications, technology, and intelligence capacity and coordination, including secure and hardened communications.

(E) Activities to improve intelligence, surveillance, and reconnaissance capabilities.

(F) Activities to enhance maritime domain awareness.

(G) Activities to improve military and defense infrastructure, logistics, and access, particularly transport of military supplies and equipment.

(H) Investments to ammunition stocks and storage.

(I) Activities and training to enhance cyber security and electronic warfare capabilities.

(J) Bilateral and multilateral training and exercises.

(K) New and existing cost-sharing mechanisms with United States and NATO allies to reduce financial burden.

(b) REPORT.—Not later than 1 year after the date of the enactment of this Act, the Secretary of Defense and the Secretary of State jointly shall submit to the appropriate congressional committees a report, which shall be submitted in unclassified form but may include a classified annex, that includes each of the following:

(1) A report on the findings of the assessment conducted pursuant to subsection (a).

(2) A list of any recommendations resulting from such assessment.

(3) An assessment of the resource requirements to achieve the objectives described in subsection (a)(1) with respect to the national defense capability of Baltic countries, including potential investments by host countries.

(4) A plan for the United States to use appropriate security cooperation authorities or other authorities to—

(A) facilitate relevant recommendations included in the list described in paragraph (2);

(B) expand joint training between the Armed Forces and the military of Lithuania, Latvia, or Estonia, including with the participation of other NATO allies; and

(C) support United States foreign military sales and other equipment transfers to Baltic countries especially for the activities described in subparagraphs (A) through (I) of subsection (a)(2).

SEC. 1274. APPROPRIATE CONGRESSIONAL COMMITTEES DEFINED.

In this subtitle, the term ''appropriate congressional committees'' means—

(1) the Committee on Armed Services, the Committee on Foreign Affairs, the Permanent Select Committee on Intelligence, and the Committee on Appropriations of the House of Representatives; and

(2) the Committee on Armed Services, the Committee on Foreign Relations, the Select Com-

mittee on Intelligence, and the Committee on Appropriations of the Senate.

TITLE XIII—COOPERATIVE THREAT REDUCTION

SEC. 1301. FUNDING ALLOCATIONS.

Of the $338,700,000 authorized to be appropriated to the Department of Defense for fiscal year 2020 in section 301 and made available by the funding table in division D for the Department of Defense Cooperative Threat Reduction Program established under section 1321 of the Department of Defense Cooperative Threat Reduction Act (50 U.S.C. 3711), the following amounts may be obligated for the purposes specified:

(1) For strategic offensive arms elimination, $492,000.

(2) For chemical weapons destruction, $12,856,000.

(3) For global nuclear security, $33,919,000.

(4) For cooperative biological engagement, $183,642,000.

(5) For proliferation prevention, $79,869,000.

(6) For activities designated as Other Assessments/Administrative Costs, $27,922,000.

SEC. 1302. SPECIFICATION OF COOPERATIVE THREAT REDUCTION FUNDS.

Funds appropriated pursuant to the authorization of appropriations in section 301 and made available by the funding table in division D for the Department of Defense Cooperative Threat Reduction Program shall be available for obligation for fiscal years 2020, 2021, and 2022.

TITLE XIV—OTHER AUTHORIZATIONS

Subtitle A—Military Programs

SEC. 1401. WORKING CAPITAL FUNDS.

Funds are hereby authorized to be appropriated for fiscal year 2020 for the use of the Armed Forces and other activities and agencies of the Department of Defense for providing capital for working capital and revolving funds, as specified in the funding table in section 4501.

SEC. 1402. CHEMICAL AGENTS AND MUNITIONS DESTRUCTION, DEFENSE.

(a) AUTHORIZATION OF APPROPRIATIONS.—Funds are hereby authorized to be appropriated for the Department of Defense for fiscal year 2020 for expenses, not otherwise provided for, for Chemical Agents and Munitions Destruction, Defense, as specified in the funding table in section 4501.

(b) USE.—Amounts authorized to be appropriated under subsection (a) are authorized for—

(1) the destruction of lethal chemical agents and munitions in accordance with section 1412 of the Department of Defense Authorization Act, 1986 (50 U.S.C. 1521); and

(2) the destruction of chemical warfare materiel of the United States that is not covered by section 1412 of such Act.

SEC. 1403. DRUG INTERDICTION AND COUNTER-DRUG ACTIVITIES, DEFENSE-WIDE.

Funds are hereby authorized to be appropriated for the Department of Defense for fiscal year 2020 for expenses, not otherwise provided for, for Drug Interdiction and Counter-Drug Activities, Defense-wide, as specified in the funding table in section 4501.

SEC. 1404. DEFENSE INSPECTOR GENERAL.

Funds are hereby authorized to be appropriated for the Department of Defense for fiscal year 2020 for expenses, not otherwise provided for, for the Office of the Inspector General of the Department of Defense, as specified in the funding table in section 4501.

SEC. 1405. DEFENSE HEALTH PROGRAM.

Funds are hereby authorized to be appropriated for fiscal year 2020 for the Defense Health Program for use of the Armed Forces and other activities and agencies of the Department of Defense for providing for the health

of eligible beneficiaries, as specified in the funding table in section 4501.

SEC. 1406. NATIONAL DEFENSE SEALIFT FUND.

Funds are hereby authorized to be appropriated for fiscal year 2020 for the National Defense Sealift Fund, as specified in the funding tables in section 4501.

Subtitle B—Other Matters

SEC. 1411. AUTHORITY FOR TRANSFER OF FUNDS TO JOINT DEPARTMENT OF DEFENSE-DEPARTMENT OF VETERANS AFFAIRS MEDICAL FACILITY DEMONSTRATION FUND FOR CAPTAIN JAMES A. LOVELL HEALTH CARE CENTER, ILLINOIS.

(a) AUTHORITY FOR TRANSFER OF FUNDS.—Of the funds authorized to be appropriated by section 1405 and available for the Defense Health Program for operation and maintenance, $127,500,000 may be transferred by the Secretary of Defense to the Joint Department of Defense–Department of Veterans Affairs Medical Facility Demonstration Fund established by subsection (a)(1) of section 1704 of the National Defense Authorization Act for Fiscal Year 2010 (Public Law 111–84; 123 Stat. 2571). For purposes of subsection (a)(2) of such section 1704, any funds so transferred shall be treated as amounts authorized and appropriated specifically for the purpose of such a transfer.

(b) USE OF TRANSFERRED FUNDS.—For the purposes of subsection (b) of such section 1704, facility operations for which funds transferred under subsection (a) may be used are operations of the Captain James A. Lovell Federal Health Care Center, consisting of the North Chicago Veterans Affairs Medical Center, the Navy Ambulatory Care Center, and supporting facilities designated as a combined Federal medical facility under an operational agreement covered by section 706 of the Duncan Hunter National Defense Authorization Act for Fiscal Year 2009 (Public Law 110–417; 122 Stat. 4500).

SEC. 1412. AUTHORIZATION OF APPROPRIATIONS FOR ARMED FORCES RETIREMENT HOME.

There is hereby authorized to be appropriated for fiscal year 2020 from the Armed Forces Retirement Home Trust Fund the sum of $64,300,000 for the operation of the Armed Forces Retirement Home.

TITLE XV—AUTHORIZATION OF ADDITIONAL APPROPRIATIONS FOR OVERSEAS CONTINGENCY OPERATIONS

Subtitle A—Authorization of Appropriations

SEC. 1501. PURPOSE.

The purpose of this title is to authorize appropriations for the Department of Defense for fiscal year 2020 to provide additional funds for overseas contingency operations being carried out by the Armed Forces.

SEC. 1502. PROCUREMENT.

Funds are hereby authorized to be appropriated for fiscal year 2020 for procurement accounts for the Army, the Navy and the Marine Corps, the Air Force, and Defense-wide activities, as specified in the funding table in section 4102.

SEC. 1503. RESEARCH, DEVELOPMENT, TEST, AND EVALUATION.

Funds are hereby authorized to be appropriated for fiscal year 2020 for the use of the Department of Defense for research, development, test, and evaluation, as specified in the funding table in section 4202.

SEC. 1504. OPERATION AND MAINTENANCE.

Funds are hereby authorized to be appropriated for fiscal year 2020 for the use of the Armed Forces and other activities and agencies of the Department of Defense for expenses, not otherwise provided for, for operation and maintenance, as specified in the funding table in section 4302.

SEC. 1505. MILITARY PERSONNEL.

Funds are hereby authorized to be appropriated for fiscal year 2020 for the use of the Armed Forces and other activities and agencies of the Department of Defense for expenses, not otherwise provided for, military personnel accounts, as specified in the funding table in section 4402.

SEC. 1506. WORKING CAPITAL FUNDS.

Funds are hereby authorized to be appropriated for fiscal year 2020 for the use of the Armed Forces and other activities and agencies of the Department of Defense for providing capital for working capital and revolving funds, as specified in the funding table in section 4502.

SEC. 1507. DRUG INTERDICTION AND COUNTER-DRUG ACTIVITIES, DEFENSE-WIDE.

Funds are hereby authorized to be appropriated for the Department of Defense for fiscal year 2020 for expenses, not otherwise provided for, for Drug Interdiction and Counter-Drug Activities, Defense-wide, as specified in the funding table in section 4502.

SEC. 1508. DEFENSE INSPECTOR GENERAL.

Funds are hereby authorized to be appropriated for the Department of Defense for fiscal year 2020 for expenses, not otherwise provided for, for the Office of the Inspector General of the Department of Defense, as specified in the funding table in section 4502.

SEC. 1509. DEFENSE HEALTH PROGRAM.

Funds are hereby authorized to be appropriated for the Department of Defense for fiscal year 2020 for expenses, not otherwise provided for, for the Defense Health Program, as specified in the funding table in section 4502.

Subtitle B—Financial Matters

SEC. 1511. TREATMENT AS ADDITIONAL AUTHORIZATIONS.

The amounts authorized to be appropriated by this title are in addition to amounts otherwise authorized to be appropriated by this Act.

SEC. 1512. SPECIAL TRANSFER AUTHORITY.

(a) AUTHORITY TO TRANSFER AUTHORIZATIONS.—

(1) AUTHORITY.—Upon determination by the Secretary of Defense that such action is necessary in the national interest, the Secretary may transfer amounts of authorizations made available to the Department of Defense in this title for fiscal year 2019 between any such authorizations for that fiscal year (or any subdivisions thereof). Amounts of authorizations so transferred shall be merged with and be

available for the same purposes as the authorization to which transferred.

(2) LIMITATION.—The total amount of authorizations that the Secretary may transfer under the authority of this subsection may not exceed $500,000,000.

(b) TERMS AND CONDITIONS.—

(1) IN GENERAL.—Transfers under this section shall be subject to the same terms and conditions as transfers under section 1001.

(2) ADDITIONAL LIMITATION ON TRANSFERS FOR DRUG INTERDICTION AND COUNTER DRUG ACTIVITIES.—The authority provided by subsection (a) may not be used to transfer any amount to Drug Interdiction and Counter Drug Activities, Defense-wide.

(c) ADDITIONAL AUTHORITY.—The transfer authority provided by this section is in addition to the transfer authority provided under section 1001.

Subtitle C—Other Matters

SEC. 1521. AFGHANISTAN SECURITY FORCES FUND.

(a) CONTINUATION OF PRIOR AUTHORITIES AND NOTICE AND REPORTING REQUIREMENTS.—Funds available to the Department of Defense for the Afghanistan Secu-

rity Forces Fund for fiscal year 2020 shall be subject to the conditions contained in—

(1) subsections (b) through (f) of section 1513 of the National Defense Authorization Act for Fiscal Year 2008 (Public Law 110–181; 122 Stat. 428); and

(2) section 1521(d)(1) of the National Defense Authorization Act for Fiscal Year 2017 (Public Law 114–328; 130 Stat. 2577).

(b) EQUIPMENT DISPOSITION.—

(1) ACCEPTANCE OF CERTAIN EQUIPMENT.—Subject to paragraph (2), the Secretary of Defense may accept equipment that is procured using amounts authorized to be appropriated for the Afghanistan Security Forces Fund by this Act and is intended for transfer to the security forces of the Ministry of Defense and the Ministry of the Interior of the Government of Afghanistan, but is not accepted by such security forces.

(2) CONDITIONS ON ACCEPTANCE OF EQUIPMENT.—Before accepting any equipment under the authority provided by paragraph (1), the Commander of United States forces in Afghanistan shall make a determination that such equipment was procured for the purpose of meeting requirements of the

security forces of the Ministry of Defense and the Ministry of the Interior of the Government of Afghanistan, as agreed to by both the Government of Afghanistan and the Government of the United States, but is no longer required by such security forces or was damaged before transfer to such security forces.

(3) ELEMENTS OF DETERMINATION.—In making a determination under paragraph (2) regarding equipment, the Commander of United States forces in Afghanistan shall consider alternatives to the acceptance of such equipment by the Secretary. An explanation of each determination, including the basis for the determination and the alternatives considered, shall be included in the relevant quarterly report required under paragraph (5).

(4) TREATMENT AS DEPARTMENT OF DEFENSE STOCKS.—Equipment accepted under the authority provided by paragraph (1) may be treated as stocks of the Department of Defense upon notification to the congressional defense committees of such treatment.

(5) QUARTERLY REPORTS ON EQUIPMENT DISPOSITION.—

(A) IN GENERAL.—Not later than 90 days after the date of the enactment of this Act and every 90-day period thereafter during which the authority provided by paragraph (1) is exercised, the Secretary shall submit to the congressional defense committees a report describing the equipment accepted during the period covered by such report under the following:

(i) This subsection.

(ii) Section 1521(b) of the National Defense Authorization Act for Fiscal Year 2017 (Public Law 114–328; 130 Stat. 2575).

(iii) Section 1531(b) of the National Defense Authorization Act for Fiscal Year 2016 (Public Law 114–92; 129 Stat. 1088).

(iv) Section 1532(b) of the Carl Levin and Howard P. ''Buck'' McKeon National Defense Authorization Act for Fiscal Year 2015 (Public Law 113–291; 128 Stat. 3613).

(v) Section 1531(d) of the National Defense Authorization Act for Fiscal Year

2014 (Public Law 113–66; 127 Stat. 938; 10 U.S.C. 2302 note).

(B) ELEMENTS.—Each report under subparagraph (A) shall include a list of all equipment that was accepted during the period covered by such report and treated as stocks of the Department of Defense and copies of the determinations made under paragraph (2), as required by paragraph (3).

(c) SECURITY OF AFGHAN WOMEN.—

(1) IN GENERAL.—Of the funds available to the Department of Defense for the Afghan Security Forces Fund for fiscal year 2020, it is the goal that $45,500,000, but in no event less than $10,000,000, shall be used for—

(A) the recruitment, integration, retention, training, and treatment of women in the Afghan National Defense and Security Forces; and

(B) the recruitment, training, and contracting of female security personnel for future elections.

(2) TYPES OF PROGRAMS AND ACTIVITIES.—Such programs and activities may include—

(A) efforts to recruit and retain women into the Afghan National Defense and Security Forces, including the special operations forces;

(B) programs and activities of the Directorate of Human Rights and Gender Integration of the Ministry of Defense of Afghanistan and the Office of Human Rights, Gender and Child Rights of the Ministry of Interior of Afghanistan;

(C) development and dissemination of gender and human rights educational and training materials and programs within the Ministry of Defense and the Ministry of Interior of Afghanistan;

(D) efforts to address harassment and violence against women within the Afghan National Defense and Security Forces;

(E) improvements to infrastructure that address the requirements of women serving in the Afghan National Defense and Security Forces, including appropriate equipment for female security and police forces, and transportation for policewomen to their station;

(F) support for Afghanistan National Police Family Response Units; and

(G) security provisions for high-profile female police and military officers.

(d) ASSESSMENT OF AFGHANISTAN PROGRESS ON OBJECTIVES.—

(1) ASSESSMENT REQUIRED.—Not later than June 1, 2020, the Secretary of Defense shall, in consultation with the Secretary of State, submit to the Committee on Armed Services and the Committee on Foreign Affairs of the House of Representatives and the Committee on Armed Services and the Committee on Foreign Relations of the Senate an assessment describing—

(A) the progress of the Government of the Islamic Republic of Afghanistan toward meeting shared security objectives; and

(B) the efforts of the Government of the Islamic Republic of Afghanistan to manage, employ, and sustain the equipment and inventory provided under subsection (a).

(2) MATTERS TO BE INCLUDED.—In conducting the assessment required by paragraph (1), the Secretary of Defense shall include each of the following:

(A) A consideration of the extent to which the Government of Afghanistan has a strategy for, and has taken steps toward, increased ac-

countability and the reduction of corruption within the Ministry of Defense and the Ministry of Interior of Afghanistan.

(B) A consideration of the extent to which the capability and capacity of the Afghan National Defense and Security Forces have improved as a result of Afghanistan Security Forces Fund investment, including through training, and an articulation of the metrics used to assess such improvements.

(C) A consideration of the extent to which the Afghan National Defense and Security Forces have been able to increase pressure on the Taliban, al-Qaeda, the Haqqani network, the Islamic State of Iraq and Syria-Khorasan, and other terrorist organizations, including by re-taking territory, defending territory, and disrupting attacks.

(D) A consideration of the distribution practices of the Afghan National Defense and Security Forces and whether the Government of Afghanistan is ensuring that supplies, equipment, and weaponry supplied by the United States are appropriately distributed to, and em-

ployed by, security forces charged with fighting the Taliban and other terrorist organizations.

(E) A consideration of the extent to which the Government of Afghanistan has designated the appropriate staff, prioritized the development of relevant processes, and provided or requested the allocation of resources necessary to support a peace and reconciliation process in Afghanistan.

(F) A description of the ability of the Ministry of Defense and the Ministry of Interior of Afghanistan to manage and account for previously divested equipment, including a description of any vulnerabilities or weaknesses of the internal controls of such Ministry of Defense and Ministry of Interior and any plan in place to address shortfalls.

(G) A description of the monitoring and evaluation systems in place to ensure assistance provided under subsection (a) is used only for the intended purposes.

(H) A description of any significant irregularities in the divestment of equipment to the Afghan National Defense and Security Forces during the period beginning on May 1, 2019,

and ending on May 1, 2020, including any major losses of such equipment or any inability on the part of the Afghan National Defense and Security Forces to account for equipment so procured.

(I) A description of the sustainment and maintenance costs required during the period beginning on May 1, 2019, and ending on May 1, 2020, for major weapons platforms previously divested, and a plan for how the Afghan National Defense and Security Forces intends to maintain such platforms in the future.

(J) A consideration of the extent to which the Government of Afghanistan is adhering to conditions for receiving assistance established in annual financial commitment letters or any other bilateral agreements with the United States.

(K) A consideration of the extent to which the Government of Afghanistan has made progress in achieving security sector benchmarks as outlined by the United States-Afghan Compact (commonly known as the ''Kabul Compact'').

(L) Such other factors as the Secretaries consider appropriate.

(3) FORM.—The assessment required by paragraph (1) shall be submitted in unclassified form, but may include a classified annex.

(4) WITHHOLDING OF ASSISTANCE FOR INSUFFICIENT PROGRESS.—

(A) IN GENERAL.—If the Secretary of Defense determines, in coordination with the Secretary of State and pursuant to the assessment under paragraph (1), that the Government of Afghanistan has made insufficient progress in the areas described in paragraph (2), the Secretary of Defense shall—

(i) withhold $480,000,000, to be derived from amounts made available for assistance for the Afghan National Defense and Security Forces, from expenditure or obligation until the date on which the Secretary certifies to Congress that the Government of Afghanistan has made sufficient progress; and

(ii) notify Congress not later than 30 days before withholding such funds.

(B) WAIVER.—If the Secretary of Defense determines that withholding such assistance would impede the national security objectives of the United States by prohibiting, restricting, delaying, or otherwise limiting the provision of assistance, the Secretary may waive the withholding requirement under subparagraph (A) if the Secretary, in coordination with the Secretary of State, certifies such determination to Congress not later than 30 days before the effective date of the waiver.

TITLE XVI—STRATEGIC PROGRAMS, CYBER, AND INTELLIGENCE MATTERS

Subtitle A—Space Activities

SEC. 1601. NATIONAL SECURITY SPACE LAUNCH PROGRAM.

(a) SENSE OF CONGRESS.—It is the sense of Congress that—

(1) ensuring opportunities for future competition in the National Security Space Launch program of the Air Force will decrease the overall cost of the program and increase the likelihood of success with respect to the Department of Defense stopping the use of Russian-made RD–180 rocket engines, as required by section 1608 of the Carl Levin and How-

ard P. ''Buck'' McKeon National Defense Authorization Act for Fiscal Year 2015 (Public Law 113–291; 10 U.S.C. 2271 note); and

(2) while Congress supports robust competition within the National Security Space Launch program, Congress recognizes the importance of providing a regular launch manifest and incentives for a robust industrial base to support national security requirements.

(b) PHASE TWO ACQUISITION STRATEGY.—In carrying out the phase two acquisition strategy, the Secretary of the Air Force—

(1) shall ensure, except as provided by subsection (c), that launch services are procured only from National Security Space Launch providers that are offerors using launch vehicles or families of launch vehicles that meet all of the requirements of the Air Force for the delivery of all required payloads to all reference orbits; and

(2) may not substantially change the acquisition schedule or mission performance requirements.

(c) COMPETITIVE PROCEDURES.—If the Secretary of the Air Force awards phase two contracts for more than a total of 29 launches, the Secretary shall ensure that each such contract for any launch after the 29th launch is

1 awarded using competitive procedures among all National
2 Security Space Launch providers.
3 (d) FUNDING FOR CERTIFICATION AND INFRASTRUC-
4 TURE.—
5 (1) AUTHORITY.—Pursuant to section 2371b of
6 title 10, United States Code, the Secretary of the
7 Air Force shall enter into an agreement described in
8 paragraph (2) with either National Security Space
9 Launch providers that have not entered into a phase
10 two contract for launch services occurring before fis-
11 cal year 2022 or National Security Space Launch
12 providers that have entered into a phase two con-
13 tract but have not entered into a launch services
14 agreement for such phase, or both.
15 (2) AGREEMENTS.—An agreement described in
16 this paragraph is an agreement that provides a Na-
17 tional Security Space Launch provider with not
18 more than $500,000,000 for the provider to meet
19 the certification and infrastructure requirements
20 that are—
21 (A) unique to national security space mis-
22 sions; and
23 (B) necessary for a phase two contract, in-
24 cluding such contracts described in subsection
25 (c).

(e) DOWN SELECT NOTIFICATION.—The Under Secretary of Defense for Acquisition and Sustainment, in coordination with the Secretary of the Air Force, shall submit to the appropriate congressional committees written notification of the two National Security Space Launch providers selected during fiscal year 2020 by the Secretary of the Air Force to be awarded phase two contracts not later than 10 days before the Secretary publicly announces such selection. The notification shall include, at a minimum—

(1) an identification of the selected providers;

(2) the evaluation criteria used in the selection;

(3) the total costs to the Air Force for such contracts; and

(4) a risk assessment of the selected providers in meeting national security requirements.

(f) REPORT.—Not later than 45 days after the date on which the Secretary of the Air Force awards phase two contracts during fiscal year 2020, the Secretary shall submit to the appropriate congressional committees a report on—

(1) the total defense investments made with respect to launch service agreements and engine development for each National Security Space Launch provider so awarded such phase two contracts; and

(2) how such investments in launch service providers were accounted for in the evaluation of the offers for such phase two contracts.

(g) DEFINITIONS.—In this section:

(1) The term ''appropriate congressional committees'' means—

(A) the congressional defense committees; and

(B) the Permanent Select Committee on Intelligence of the House of Representatives and the Select Committee on Intelligence of the Senate.

(2) The term ''phase two acquisition strategy'' means the process by which the Secretary of the Air Force enters into phase two contracts and carries out launches under the National Security Space Launch program during fiscal years 2020 through 2024.

(3) The term ''phase two contract'' means a contract for launch services under the National Security Space Launch program during fiscal years 2020 through 2024, as described in solicitation number FA8811–19–R–0002 of the Air Force.

SEC. 1602. PREPARATION TO IMPLEMENT PLAN FOR USE OF ALLIED LAUNCH VEHICLES.

(a) PREPARATION.—The Secretary of Defense, in coordination with the Director of National Intelligence, shall take actions necessary to prepare to implement the plan developed pursuant to section 1603 of the National Defense Authorization Act for Fiscal Year 2017 (Public Law 114–328; 130 Stat. 2584) regarding using allied launch vehicles to meet the requirements for achieving the policy relating to assured access to space set forth in section 2273 of title 10, United States Code.

(b) ACTIONS REQUIRED.—In carrying out subsection (a), the Secretary shall—

(1) identify the satellites of the United States that would be appropriate to be launched on an allied launch vehicle;

(2) assess the relevant provisions of Federal law, regulations, and policies governing the launch of national security satellites and determine whether any legislative, regulatory, or policy actions (including with respect to waivers) would be necessary to allow for the launch of a national security satellite on an allied launch vehicle; and

(3) address any certification requirements necessary for such use of allied launch vehicles and the

estimated cost, schedule, and actions necessary to certify allied launch vehicles for such use.

(c) SUBMISSION TO CONGRESS.—Not later than 90 days after the date of the enactment of this Act, the Secretary of Defense shall submit to the appropriate congressional committees a report on preparing to implement the plan described in subsection (a), including information regarding each action required by paragraphs (1), (2), and (3) of subsection (b).

(d) APPROPRIATE CONGRESSIONAL COMMITTEES DEFINED.—In this section, the term ''appropriate congressional committees'' means—

(1) the congressional defense committees; and

(2) the Permanent Select Committee on Intelligence of the House of Representatives and the Select Committee on Intelligence of the Senate.

SEC. 1603. ANNUAL DETERMINATION ON PLAN ON FULL INTEGRATION AND EXPLOITATION OF OVERHEAD PERSISTENT INFRARED CAPABILITY.

Section 1618(c) of the National Defense Authorization Act for Fiscal Year 2016 (Public Law 114–92; 10 U.S.C. 2431 note) is amended by striking ''for a fiscal year'' and inserting ''for each fiscal year preceding fiscal year 2029''.

SEC. 1604. SPACE-BASED ENVIRONMENTAL MONITORING MISSION REQUIREMENTS.

(a) NRO.—

(1) PROCUREMENT.—The Director of the National Reconnaissance Office shall procure a modernized pathfinder program free-flyer satellite that—

(A) addresses space-based environmental monitoring mission requirements;

(B) reduces the risk that the Department of Defense experiences a gap in meeting such requirements during the period beginning January 1, 2023, and ending December 31, 2025; and

(C) is launched not later than January 1, 2023.

(2) PLAN.—Not later than 60 days after the date of the enactment of this Act, the Director, in coordination with the Secretary of the Air Force, shall submit to the appropriate congressional committees a plan for the Director to procure and launch the satellite under paragraph (1), including with respect to—

(A) the requirements for such satellite, including operational requirements;

(B) timelines for such procurement and launch;

(C) costs for such procurement and launch; and

(D) the launch plan.

(3) PROCEDURES.—The Director shall ensure that the satellite under paragraph (1) is procured using full and open competition through the use of competitive procedures.

(b) AIR FORCE.—The Secretary of the Air Force shall ensure that the electro-optical/infrared weather system satellite—

(1) meets space-based environmental monitoring mission requirements;

(2) is procured using full and open competition through the use of competitive procedures; and

(3) is launched not later than September 30, 2025.

(c) DEFINITIONS.—In this section:

(1) The term ''appropriate congressional committees'' means—

(A) the congressional defense committees; and

(B) the Permanent Select Committee on Intelligence of the House of Representatives and the Select Committee on Intelligence of the Senate.

(2) The term ''space-based environmental monitoring mission requirements'' means the national security requirements for cloud characterization and theater weather imagery.

SEC. 1605. PROTOTYPE PROGRAM FOR MULTI-GLOBAL NAVIGATION SATELLITE SYSTEM RECEIVER DEVELOPMENT.

(a) PROTOTYPE MULTI-GNSS PROGRAM.—The Secretary of Defense shall establish under the Space Development Agency a program to prototype an M-code based, multi-global navigation satellite system receiver that is capable of receiving covered signals to increase the resilience and capability of military position, navigation, and timing equipment against threats to the Global Positioning System and to deter the likelihood of attack on the worldwide Global Positioning System by reducing the benefits of such an attack.

(b) ELEMENTS.—In carrying out the program under subsection (a), the Secretary shall—

(1) with respect to each covered signal that could be received by the prototype receiver under such program, conduct an assessment of the relative benefits and risks of using that signal, including with respect to any existing or needed monitoring infrastructure that would alert users of the Depart-

ment of Defense of potentially corrupted signal information, and the cyber risks and challenges of incorporating such signals into a properly designed receiver;

(2) ensure that monitoring systems are able to include any monitoring network of the United States or allies of the United States;

(3) conduct an assessment of the benefits and risks, including with respect to the compatibility of non-United States global navigation satellite system signals with existing position, navigation, and timing equipment of the United States, and the extent to which the capability to receive such signals would impact current receiver or antenna design; and

(4) conduct an assessment of the desirability of establishing such program in a manner that—

(A) is a cooperative effort, coordinated with the Secretary of State, between the United States and the allies of the United States that may also have interest in funding a multi-global navigation satellite system and M-code program; and

(B) the Secretary of Defense, in coordination with the Secretary of State, ensures that the United States has access to sufficient in-

sight into trusted signals of allied systems to assure potential reliance by the United States on such signals.

(c) BRIEFING.—Not later than 90 days after the date of the enactment of this Act, the Director of the Space Development Agency, in coordination with the Air Force GPS User Equipment Program office, shall provide to the congressional defense committees a briefing on a plan to carry out the program under subsection (a) that includes—

(1) the estimated cost, including total cost and out-year funding requirements;

(2) the schedule for such program;

(3) a plan for how the results of the program could be incorporated into future blocks of the Global Positioning System military user equipment program; and

(4) the recommendations and analysis contained in the study sponsored by the Department of Defense conducted by the MITRE Corporation on the risks, benefits, and approaches to adding multi-global navigation satellite system capabilities to military user equipment.

(d) REPORT.—Not later than 120 days after the date of the enactment of this Act, the Secretary of Defense

shall submit to the congressional defense committees, the Committee on Foreign Affairs of the House of Representatives, and the Committee on Foreign Relations of the Senate a report containing—

(1) an explanation of how the Secretary intends to comply with section 1609 of the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Public Law 115–232; 132 Stat. 2110);

(2) an outline of any potential cooperative efforts acting in accordance with the North Atlantic Treaty Organization, the European Union, or Japan that would support such compliance;

(3) an assessment of the potential to host, or incorporate through software-defined payloads, Global Positioning System M-code functionality onto allied global navigation satellite system systems; and

(4) an assessment of new or enhanced monitoring capabilities that would be needed to incorporate global navigation satellite system functionality into weapon systems of the Department.

(e) LIMITATION.—Of the funds authorized to be appropriated by this Act or otherwise made available for fiscal year 2020 for increment 2 of the acquisition of military Global Positioning System user equipment terminals, not

more than 75 percent may be obligated or expended until the date on which the briefing has been provided under subsection (c) and the report has been submitted under subsection (d).

(f) DEFINITIONS.—In this section:

(1) The term ''allied systems'' means—

(A) the Galileo system of the European Union;

(B) the QZSS system of Japan; and

(C) upon designation by the Secretary of Defense, in consultation with the Director of National Intelligence—

(i) the NAVIC system of India; and

(ii) any similarly associated wide area augmentation systems.

(2) The term ''covered signals''—

(A) means global navigation satellite system signals from—

(i) allied systems; and

(ii) non-allied systems; and

(B) includes both trusted signals and open signals.

(3) The term ''M-code'' means, with respect to global navigation satellite system signals, military code that provides enhanced positioning, navigation,

and timing capabilities and improved resistance to existing and emerging threats, such as jamming.

(4) The term ''non-allied systems'' means—

(A) the Russian GLONASS system; and

(B) the Chinese Beidou system.

(5) The term ''open signals'' means global navigation satellite system that do not include encryption or other internal methods to authenticate signal information.

(6) The term ''trusted signals'' means global navigation satellite system signals that incorporate encryption or other internal methods to authenticate signal information.

SEC. 1606. COMMERCIAL SPACE SITUATIONAL AWARENESS CAPABILITIES.

(a) FINDINGS.—Congress finds the following:

(1) The Secretary of the Air Force is responsible for developing the hardware and software systems to provide space situational awareness data to the Commander of the United States Strategic Command to meet warfighter requirements.

(2) There have been significant delays and cost increases in the program of record that underpin space situational awareness.

(3) The Secretary terminated the Joint Space Operations Center Mission Center and decided to operationally accept the Joint Space Operations Center Mission Center Increment 2 despite the fact that only three of 12 planned capabilities in Joint Space Operations Center Mission Center Increment 2 were accepted for use in operations.

(4) Multiple commercial vendors have the current capability to detect, maintain custody of, and provide analytical products that can address the warfighter space situational awareness requirements that were not filled in the Joint Space Operations Center Mission Center and that have been impacted by significant delays in the program of record.

(b) PROCUREMENT.—Not later than 90 days after the date of the enactment of this Act, the Director of the Space Development Agency shall procure commercial space situational awareness services by awarding at least two contracts for such services.

(c) LIMITATION.—Of the funds authorized to be appropriated by this Act or otherwise made available for fiscal year 2020 for the enterprise space battle management command and control, not more than 75 percent may be obligated or expended until the date on which the Secretary of Defense, without delegation, certifies to the con-

gressional committees that the Secretary has awarded the contracts under subsection (b).

(d) REPORT.—Not later than January 31, 2020, the Director of the Space Development Agency, in coordination with the Secretary of the Air Force, shall submit to the congressional defense committees a report on using commercial space situational awareness services to fill the space situational awareness requirements that were not filled in the Joint Space Operations Center Mission Center. The report shall include the following:

(1) A description of current domestic commercial capabilities to detect and track space objects in low earth orbit below the 10 centimeter threshold of legacy systems.

(2) A description of current domestic best-in-breed commercial capabilities that can meet such requirements.

(3) Estimates of the timelines, milestones, and funding requirements to procure a near-term solution to meet such requirements until the development programs of the Air Force are projected to be operationally fielded.

(e) COMMERCIAL SPACE SITUATIONAL AWARENESS SERVICES DEFINED.—In this section, the term ''commercial space situational awareness services'' means commer-

cial space situational awareness processing software and data to address warfighter requirements and fill gaps in current space situational capabilities of the Air Force.

SEC. 1607. INDEPENDENT STUDY ON PLAN FOR DETERRENCE IN SPACE.

(a) FINDINGS.—Congress finds the following:

(1) Threats to space systems of the United States have increased and continue to grow.

(2) While the United States must invest in capabilities to defend such systems in the event of an attack in space, the United States must also identify and implement policies that will reduce the likelihood of such an attack.

(3) The United States is developing new capabilities for enhancing resilience of such systems.

(4) However, the proper balance between active defense, resilience, and the still lagging investment area of reconstitution to enhance deterrence remains unclear, as does the balance between classified and unclassified activities needed to create deterrence.

(5) Independent analysis and assessment is necessary to identify steps to increase deterrence in space.

(b) INDEPENDENT STUDY.—

(1) IN GENERAL.—Not later than 30 days after the date of the enactment of this Act, the Secretary of Defense shall seek to enter into a contract with a federally funded research and development center or other independent entity to conduct a study on deterrence in space.

(2) MATTERS INCLUDED.—The study under paragraph (1) shall include, at a minimum, the following:

(A) An assessment of the existing range of major studies and writings on space deterrence and a comprehensive comparative analysis of the conclusions of such studies and writings.

(B) An examination, using appropriate analytical tools, of the approaches proposed by such studies and writings with respect to creating conditions of deterrence suitable for use in the space domain, including, at a minimum, an assessment of all aspects of deterrence in space, including varying classification, strategies to deny benefit or impose cost, and space mission assurance (including resilience, active defense, and reconstitution).

(C) A determination, made either by extending such studies and writings or through

new analysis, of a holistic and comprehensive theory of deterrence in space appropriate for use in defense planning.

(D) An evaluation of existing policies, programs, and plans of the Department of Defense to provide an assessment of the likely effectiveness of those policies, programs, and plans to achieve effective space deterrence.

(c) ASSESSMENT BY DEFENSE POLICY BOARD.—Not later than 180 days after the date of the enactment of this Act, the Defense Policy Board shall submit to the Secretary of Defense an assessment of the study under subsection (b)(1), including, at a minimum—

(1) a determination of the soundness of the study;

(2) a description of any disagreements the Board has with the conclusions of such study, including recommended changes or clarifications to such conclusions the Board determines appropriate; and

(3) changes to the policies, programs, and plans of the Department of Defense that the Board recommends based on such study and the changes and clarifications described in paragraph (2).

(d) REPORT.—Not later than 270 days after the date of the enactment of this Act, the Secretary shall submit to the congressional defense committees, the Committee on Foreign Affairs of the House of Representatives, and the Committee on Foreign Relations of the Senate a report that contains the following:

(1) The study under subsection (b)(1), without change.

(2) The assessment under subsection (c), without change.

(3) Based on such study and assessment, a description of any changes to the policies, programs, and plans of the Department of Defense that the Secretary recommends to enhance deterrence in space, including with respect to—

(A) considerations and decision on reducing the opportunities and incentives for adversaries to attack space systems of the United States or allies of the United States;

(B) new architectures, including proliferated systems, hosted payloads, non-traditional orbits, and reconstitution among others;

(C) appropriate uses of partnering with both commercial entities and allies to improve deterrence in space;

(D) necessary capabilities to enhance the protection of space systems to achieve improved deterrence;

(E) bilateral, multilateral, and unilateral measures, including confidence-building measures, that could be taken to reduce the risk of miscalculation that would lead to an attack in space;

(F) policies and capability requirements with regard to attribution of an attack in space;

(G) policies with regard to retaliatory measures either in space or on the ground;

(H) authorities with regard to decisions and actions to defend assets of the United States in space; and

(I) changes to current war plans, routine operations (including information sharing), and demonstration and test procedures that could enhance the capability of the United States to signal the intentions and capabilities of the United States in an effective manner.

(e) BRIEFING.—Not later than 270 days after the date of the enactment of this Act, the Secretary shall provide to the congressional defense committees, the Committee on Foreign Affairs of the House of Representatives,

and the Committee on Foreign Relations of the Senate a briefing on the study under subsection (b)(1) and the assessment under subsection (c).

SEC. 1608. RESILIENT ENTERPRISE GROUND ARCHITECTURE.

(a) SENSE OF CONGRESS.—It is the sense of Congress that the Secretary of the Air Force, to advance the security of the space assets of the Department of Defense, should—

(1) expand on complimentary efforts within the Air Force that promote the adoption of a resilient enterprise ground architecture that is responsive to new and changing threats and can rapidly integrate new capabilities to make the warfighting force of the United States more resilient in a contested battlespace; and

(2) prioritize the swift transition of space ground architecture to a common platform and leverage commercial capabilities in concurrence with the 2015 intent memorandum of the Commander of the Air Force Space Command.

(b) FUTURE ARCHITECTURE.—The Secretary of Defense shall, to the extent practicable—

(1) develop future satellite ground architectures of the Department of Defense to be compatible with

complimentary commercial systems that can support uplink and downlink capabilities with dual-band spacecraft; and

(2) emphasize that future ground architecture transition away from stove-piped systems to a service-based platform that provides members of the Armed Forces with flexible and adaptable capabilities that—

(A) use, as applicable, commercially available capabilities and technologies for increased resiliency and cost savings; and

(B) builds commercial opportunity and integration across the range of resilient space systems.

Subtitle B—Defense Intelligence and Intelligence-Related Activities

SEC. 1611. MODIFICATIONS TO ISR INTEGRATION COUNCIL AND ANNUAL BRIEFING REQUIREMENTS.

(a) ISR INTEGRATION COUNCIL.—Subsection (a) of section 426 of title 10, United States Code, is amended to read as follows:

"(a) ISR INTEGRATION COUNCIL.—(1) The Under Secretary of Defense for Intelligence shall establish an Intelligence, Surveillance, and Reconnaissance Integration Council—

"(A) to assist the Secretary of Defense in carrying out the responsibilities of the Secretary under section 105(a) of the National Security Act of 1947 (50 U.S.C. 3038(a));

"(B) to assist the Under Secretary with respect to matters relating to—

"(i) integration of intelligence and counterintelligence capabilities and activities under section 137(b) of this title of the military departments, intelligence agencies of the Department of Defense, and relevant combatant commands; and

"(ii) coordination of related developmental activities of such departments, agencies, and combatant commands; and

"(C) to otherwise provide a means to facilitate such integration and coordination.

"(2) The Council shall be composed of—

"(A) the Under Secretary, who shall chair the Council;

"(B) the directors of the intelligence agencies of the Department of Defense;

"(C) the senior intelligence officers of the armed forces and the regional and functional combatant commands;

"(D) the Director for Intelligence of the Joint Chiefs of Staff; and

"(E) the Director for Operations of the Joint Chiefs of Staff.

"(3) The Under Secretary shall invite the participation of the Director of National Intelligence (or a representative of the Director) in the proceedings of the Council.

"(4) The Under Secretary may designate additional participants to attend the proceedings of the Council, as the Under Secretary determines appropriate.".

(b) ANNUAL BRIEFINGS.—Such section is further amended by striking subsections (b) and (c) and inserting the following new subsection (b):

"(b) ANNUAL BRIEFINGS ON THE INTELLIGENCE AND COUNTERINTELLIGENCE REQUIREMENTS OF THE COMBATANT COMMANDS.—(1) The Chairman of the Joint Chiefs of Staff shall provide to the congressional defense committees and the congressional intelligence committees a briefing on the following:

"(A) The intelligence and counterintelligence requirements, by specific intelligence capability type, of each of the relevant combatant commands.

"(B) For the year preceding the year in which the briefing is provided, the fulfillment rate for each

of the relevant combatant commands of the validated intelligence and counterintelligence requirements, by specific intelligence capability type, of such combatant command.

''(C) A risk analysis identifying the critical gaps and shortfalls in efforts to address operational and strategic requirements of the Department of Defense that would result from the failure to fulfill the validated intelligence and counterintelligence requirements of the relevant combatant commands.

''(D) A mitigation plan to balance and offset the gaps and shortfalls identified under subparagraph (C), including with respect to spaceborne, airborne, ground, maritime, and cyber intelligence, surveillance, and reconnaissance capabilities.

''(E) For the year preceding the year in which the briefing is provided—

''(i) the number of intelligence and counterintelligence requests of each commander of a relevant combatant command determined by the Joint Chiefs of Staff to be a validated requirement, and the total of capacity of such requests provided to each such commander;

''(ii) with respect to such validated requirements—

"(I) the quantity of intelligence and counterintelligence capabilities or activities, by specific intelligence capability type, that the Joint Chiefs of Staff requested each military department to provide; and

"(II) the total of capacity of such requests so provided by each such military department; and

"(iii) a qualitative assessment of the alignment of intelligence and counterintelligence capabilities and activities with the program of analysis for each combat support agency and intelligence center of a military service that is part of—

"(I) the Defense Intelligence Enterprise; and

"(II) the intelligence community.

"(2) The Under Secretary of Defense for Intelligence shall provide to the congressional defense committees and the congressional intelligence committees a briefing on short-, mid-, and long-term strategies to address the validated intelligence and counterintelligence requirements of the relevant combatant commands, including with respect to spaceborne, airborne, ground, maritime, and cyber intelligence, surveillance, and reconnaissance capabilities.

"(3) The briefings required by paragraphs (1) and (2) shall be provided at the same time that the President's budget is submitted pursuant to section 1105(a) of title 31 for each of fiscal years 2021 through 2025.

"(4) In this subsection:

"(A) The term 'congressional intelligence committees' has the meaning given that term in section 3 of the National Security Act of 1947 (50 U.S.C. 3003).

"(B) The term 'Defense Intelligence Enterprise' means the organizations, infrastructure, and measures, including policies, processes, procedures, and products, of the intelligence, counterintelligence, and security components of each of the following:

"(i) The Department of Defense.

"(ii) The Joint Staff.

"(iii) The combatant commands.

"(iv) The military departments.

"(v) Other elements of the Department of Defense that perform national intelligence, defense intelligence, intelligence-related, counterintelligence, or security functions.

"(C) The term 'fulfillment rate' means the percentage of combatant command intelligence and counterintelligence requirements satisfied by avail-

able, acquired, or realigned intelligence and counter-intelligence capabilities or activities.

''(D) The term 'intelligence community' has the meaning given that term in section 3 of the National Security Act of 1947 (50 U.S.C. 3003).''.

SEC. 1612. SURVEY AND REPORT ON ALIGNMENT OF INTELLIGENCE COLLECTIONS CAPABILITIES AND ACTIVITIES WITH DEPARTMENT OF DEFENSE REQUIREMENTS.

(a) SURVEY AND REVIEW.—

(1) IN GENERAL.—Not later than 120 days after the date of the enactment of this Act, the Under Secretary of Defense for Intelligence, in coordination with the Chairman of the Joint Chiefs of Staff and the Director of National Intelligence, shall—

(A) review the organization, posture, current and planned investments, and processes of the intelligence collections capabilities and activities, for the purpose of assessing the sufficiency, integration, and interoperability of such capabilities and activities to support the current and future requirements of the Department of Defense; and

(B) conduct a survey of each geographic and functional combatant command, with respect to intelligence collections capabilities and activities, to assess—

(i) the current state of the support of such capabilities and activities to military operations;

(ii) whether the posture of such capabilities and activities is sufficient to address the requirements of the Department of Defense;

(iii) the extent to which such capabilities and activities address gaps and deficiencies with respect to the operational requirements of the Global Campaign Plans, as identified in the most recent readiness reviews conducted by the Joint Staff; and

(iv) whether current and planned investments in such capabilities and activities are sufficient to address near-, mid-, and long-term spaceborne, airborne, terrestrial, and human collection capability requirements.

(2) ELEMENTS.—The survey and review under paragraph (1) shall include the following:

(A) A comprehensive assessment of intelligence collections capabilities and activities, and whether such capabilities and activities—

(i) are appropriately postured and sufficiently resourced to meet current and future requirements of the Department of Defense;

(ii) are appropriately balanced to address operational and strategic defense intelligence requirements; and

(iii) are sufficiently integrated and interoperable between activities of the Military Intelligence Program and the National Intelligence Program to respond to emerging requirements of the Department of Defense.

(B) With respect to each geographic and functional combatant command—

(i) information on the gaps and deficiencies, by specific intelligence capability type, described in paragraph (1)(B)(iii);

(ii) a review of the alignment of such gaps and deficiencies with the intelligence, surveillance, and reconnaissance submissions to the integrated priorities list for

the period beginning with the completion of the most recent readiness reviews conducted by the Joint Staff and ending on the date of the commencement of the survey and review under subsection (a); and

(iii) detailed information on the allocation and realignment of intelligence collections capabilities and activities to address—

(I) such gaps and deficiencies; and

(II) such intelligence, surveillance, and reconnaissance submissions.

(b) REPORT.—

(1) SUBMISSION.—Not later than 270 days after the date of the enactment of this Act, the Under Secretary of Defense for Intelligence shall submit to the appropriate congressional committees a report on the findings of the Under Secretary with respect to the survey and review under subsection (a)(1).

(2) CONTENT.—The report under paragraph (1) shall include—

(A) an evaluation of—

(i) the organization, posture, current and planned investments, and processes of the intelligence collections capabilities and activities, including the extent to which such capabilities and activities enable the geographic and functional combatant commands to meet the operational and strategic requirements of the Department of Defense;

(ii) the use or planned use by each geographic and functional combatant command of intelligence collections capabilities and activities available to such command to address operational and strategic requirements of the Department of Defense;

(iii) the gaps and deficiencies described in subsection (a)(1)(B)(iii), if any, that prohibit each geographic and functional combatant command from the most effective use of the intelligence collections capabilities and activities to address priority requirements of the Department of Defense;

(iv) the accepted risk by the Secretary of Defense from the prioritization of cer-

tain Department of Defense requirements with respect to the allocation of intelligence collections capabilities and activities; and

(v) the alignment and responsiveness of intelligence collections capabilities and activities with respect to the planning requirements for the Program of Analysis of each combat support agency that is part of—

(I) the Defense Intelligence Enterprise; and

(II) the intelligence community; and

(B) recommendations, if any, to improve the sufficiency, responsiveness, and interoperability of intelligence collections capabilities and activities to fulfill the operational and strategic requirements of the Department of Defense.

(3) FORM.—The report under paragraph (1) shall be submitted in unclassified form without any designation relating to dissemination control, but may contain a classified annex.

(c) DEFINITIONS.—In this section:

(1) The term ''appropriate congressional committees'' means—

(A) the congressional defense committees; and

(B) the congressional intelligence committees.

(2) The term ''combat support agency'' has the meaning given that term in section 193(f) of title 10, United States Code.

(3) The term ''Defense Intelligence Enterprise'' has the meaning given that term in section 1633(c)(2) of the National Defense Authorization Act for Fiscal Year 2017 (Public Law 114–328; 130 Stat. 2600).

(4) The term ''intelligence collections capabilities and activities'' means the totality of intelligence collections systems and processes which enable the tasking, processing, exploitation, and dissemination capabilities, capacity, and activities of the Defense Intelligence Enterprise.

(5) The term ''intelligence community'' has the meaning given that term in section 3 of the National Security Act of 1947 (50 U.S.C. 3003).

(6) The term ''congressional intelligence committees'' has the meaning given that term in section 3 of the National Security Act of 1947 (50 U.S.C. 3003).

SEC. 1613. MODIFICATION OF ANNUAL AUTHORIZATION OF APPROPRIATIONS FOR NATIONAL FLAGSHIP LANGUAGE INITIATIVE.

Section 811(a) of the David L. Boren National Security Education Act of 1991 (50 U.S.C. 1911(a)) is amended—

(1) by striking ''fiscal year 2003'' and inserting ''fiscal year 2020''; and

(2) by striking ''$10,000,000'' and inserting ''$16,000,000''.

Subtitle C—Cyberspace-Related Matters

SEC. 1621. NOTIFICATION REQUIREMENTS FOR SENSITIVE MILITARY CYBER OPERATIONS.

Section 395 of title 10, United States Code, is amended—

(1) in subsection (b)(3), by inserting '', signed by the Secretary,'' after ''written notification''; and

(2) in subsection (c)—

(A) in paragraph (1)—

(i) in subparagraph (A), by striking ''and'' after the semicolon at the end;

(ii) by redesignating subparagraph (B) as subparagraph (C); and

(iii) by inserting after subparagraph (A) the following new subparagraph:

"(B) is determined to—

"(i) have a medium or high collateral effects estimate;

"(ii) have a medium or high intelligence gain or loss;

"(iii) have a medium or high probability of political retaliation, as determined by the political military assessment contained within the associated concept of operations;

"(iv) have a medium or high probability of detection when detection is not intended; or

"(v) result in medium or high collateral effects; and"; and

(B) in paragraph (2)(B), by striking "outside the Department of Defense Information Networks to defeat an ongoing or imminent threat".

SEC. 1622. QUARTERLY CYBER OPERATIONS BRIEFINGS.

Subsection (b) of section 484 of title 10, United States Code, is amended—

(1) by redesignating paragraph (4) as paragraph (5); and

(2) by inserting after paragraph (3) the following new paragraph:

"(4) An overview of the readiness of the Cyber Mission Force to perform assigned missions.".

SEC. 1623. CYBER POSTURE REVIEW.

Section 1644 of the National Defense Authorization Act for Fiscal Year 2018 (Public Law 115–91) is amended—

(1) in subsection (a), by inserting ", not later than December 31, 2022, and quadrennially thereafter," before "conduct";

(2) in subsection (b), by striking "the review" and inserting "each review";

(3) in subsection (c)—

(A) in the matter preceding paragraph (1), by striking "The review" and inserting "Each review";

(B) by redesignating paragraph (9) as paragraph (10); and

(C) by inserting after paragraph (8) the following new paragraph:

"(9) An assessment of the potential costs, benefits, and value, if any, of establishing a cyber force as a separate uniformed service.";

(4) in subsection (d)—

(A) in paragraph (1), by striking "the cyber" and inserting "each cyber";

(B) in paragraph (2), by striking ''The report'' and inserting ''Each report''; and

(C) by striking paragraph (3); and

(5) in subsection (e), by striking ''period beginning on the date that is five years after the date of the enactment of this Act and ending on the date that is 10 years after such date of enactment'' and inserting ''each eight-year period that begins from the date of each review conducted under subsection (a)''.

SEC. 1624. TIER 1 EXERCISE OF SUPPORT TO CIVIL AUTHORITIES FOR A CYBER INCIDENT.

Section 1648 of the John S. McCain National Defense Authorization Act for Fiscal Year 2019 is amended—

(1) in subsection (a), by striking ''The'' and inserting ''Not later than February 1, 2020, the''; and

(2) by adding at the end the following new subsection:

''(c) LIMITATION.—Of the funds authorized to be appropriated by this Act or otherwise made available for fiscal year 2020 for the Department of Defense for the White House Communications Agency, not more than 90 percent of such funds may be obligated or expended until

the initiation of the tier 1 exercise required under subsection (a).''.

SEC. 1625. EVALUATION OF CYBER VULNERABILITIES OF MAJOR WEAPON SYSTEMS OF THE DEPARTMENT OF DEFENSE.

Section 1647 of the National Defense Authorization Act for Fiscal Year 2016 is amended by adding at the end the following new subsections:

''(f) WRITTEN NOTIFICATION.—If the Secretary determines that the Department will not complete an evaluation of the cyber vulnerabilities of each major weapon system of the Department by the date specified in subsection (a)(1), the Secretary shall provide to the congressional defense committee written notification relating to each such incomplete evaluation. Such a written notification shall include the following:

''(1) An identification of each major weapon system requiring such an evaluation and the anticipated date of completion.

''(2) A justification for the inability to complete such an evaluation by the date specified in subsection (a)(1).

''(g) REPORT.—The Secretary, acting through the Assistant Secretary of Defense for Acquisition and Sustainment, shall provide a report to the congressional

defense committees upon completion of the requirement for an evaluation of the cyber vulnerabilities of each major weapon system of the Department under this section. Such report shall include the following:

''(1) An identification of cyber vulnerabilities of each major weapon system requiring mitigation.

''(2) An identification of current and planned efforts to address the cyber vulnerabilities of each major weapon system requiring mitigation, including efforts across the doctrine, organization, training, materiel, leadership and education, personnel, and facilities of the Department.

''(3) A description of joint and common cyber vulnerability mitigation solutions and efforts, including solutions and efforts across the doctrine, organization, training, materiel, leadership and education, personnel, and facilities of the Department.

''(4) A description of lessons learned and best practices regarding evaluations of the cyber vulnerabilities and cyber vulnerability mitigation efforts relating to major weapon systems.

''(5) A description of efforts to share lessons learned and best practices regarding evaluations of the cyber vulnerabilities and cyber vulnerability miti-

gation efforts of major weapon systems across the Department.

''(6) An identification of measures taken to institutionalize evaluations of cyber vulnerabilities of major weapon systems.

''(7) Information relating to guidance, processes, procedures, or other activities established to mitigate or address the likelihood of cyber vulnerabilities of major weapon systems by incorporation of lessons learned in the research, development, test, evaluation, and acquisition cycle, including promotion of cyber education of the acquisition workforce.

''(8) Any other matters the Secretary determines relevant.''.

SEC. 1626. EXTENSION OF THE CYBERSPACE SOLARIUM COMMISSION.

Paragraph (1) of section 1652(k) of the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Public Law 115–232) is amended by striking ''2019'' and inserting ''2020''.

SEC. 1627. AUTHORITY TO USE OPERATION AND MAINTENANCE FUNDS FOR CYBER OPERATIONS-PECULIAR CAPABILITY DEVELOPMENT PROJECTS.

(a) IN GENERAL.—The Secretary of Defense and each Secretary concerned may obligate and expend not more than $3,000,000 of amounts authorized to be appropriated for operation and maintenance in each of fiscal years 2020 through 2022 to carry out cyber operations-peculiar capability development projects.

(b) CERTIFICATION.—For each development project initiated under the authority provided for in subsection (a), the Commander of U.S. Cyber Command shall certify to the congressional defense committees that each project is determined to be cyber operations-peculiar.

(c) NOTIFICATION.—Not later than 15 days after exercising the authority provided for in subsection (a), the Secretary of Defense shall notify the congressional defense committees of such exercise.

(d) REPORT.—Not later than December 31 of each year through 2022, the Secretary of Defense shall submit to the congressional defense committees a report on expenditures made pursuant to the authority provided for in subsection (a). Each such report shall include a full description and evaluation of each of the cyber operations-peculiar capability development projects that is the subject

of each such expenditure, definitions and standards for cyber operations-peculiar requirements, transition plans, and any other matters the Secretary determines relevant.

SEC. 1628. NOTIFICATION OF DELEGATION OF AUTHORITIES TO THE SECRETARY OF DEFENSE FOR MILITARY OPERATIONS IN CYBERSPACE.

(a) IN GENERAL.—The Secretary of Defense shall provide written notification to the Committee on Armed Services of the House of Representatives and the Committee on Armed Services of the Senate of authorities delegated to the Secretary by the President for military operations in cyberspace that are otherwise held by the National Command Authority, not later than 15 days after any such delegation. Such notification shall include the following:

(1) A description of the authorities delegated to the Secretary.

(2) A description of relevant documents, including execute orders, issued by the Secretary in accordance with such authorities.

(3) A list of countries in which such authorities may be utilized.

(4) A description of authorized activities to be conducted or planned to be conducted pursuant to such authorities.

(5) Defined military objectives relating to such authorities.

(b) PROCEDURES.—

(1) IN GENERAL.—The Secretary of Defense shall establish and submit to the Committee on Armed Services of the House of Representatives and the Committee on Armed Services of the Senate procedures for complying with the requirements of subsection (a), consistent with the national security of the United States and the protection of operational integrity. The Secretary shall promptly notify the Committee on Armed Services of the House of Representatives and the Committee on Armed Services of the Senate in writing of any changes to such procedures at least 14 days prior to the adoption of any such changes.

(2) SUFFICIENCY.—The Committee on Armed Services of the House of Representatives and the Committee on Armed Services of the Senate shall ensure that committee procedures designed to protect from unauthorized disclosure classified information relating to national security of the United States are sufficient to protect the information that is submitted to the committees pursuant to this section.

(3) NOTIFICATION IN EVENT OF UNAUTHORIZED DISCLOSURE.—In the event of an unauthorized disclosure of authorities covered by this section, the Secretary of Defense shall ensure, to the maximum extent practicable, that the Committee on Armed Services of the House of Representatives and the Committee on Armed Services of the Senate are notified immediately. Notification under this paragraph may be verbal or written, but in the event of a verbal notification, a written notification signed by the Secretary shall be provided by not later than 48 hours after the provision of such verbal notification.

SEC. 1629. LIMITATION OF FUNDING FOR CONSOLIDATED AFLOAT NETWORKS AND ENTERPRISE SERVICES.

Of the funds authorized to be appropriated by this Act or otherwise made available for fiscal year 2020 for the Consolidated Afloat Networks and Enterprise Services, not more than 85 percent of such funds may be obligated or expended until the Secretary of Defense, in coordination with the Chief Information Officer of the Department of Defense, certifies to the congressional defense committees that the recommendations in the Audit of Consolidated Afloat Networks and Enterprise Services Secu-

rity Safeguards (DODIG-2019-072) have been implemented.

SEC. 1630. ANNUAL MILITARY CYBERSPACE OPERATIONS REPORT.

(a) IN GENERAL.—Not later than March 1 of each year, the Secretary of Defense shall provide to the congressional defense committees a written report detailing all military cyberspace operations conducted in the previous calendar year. For each such operation each such report shall include the following:

(1) An identification of the objective and purpose.

(2) Impacted information technology infrastructure, by location.

(3) A description of tools and capabilities utilized.

(4) An identification of the Cyber Mission Force team, or other Department of Defense entity or unit, that conducted such operation, and supporting teams, entities, or units.

(5) A description of the infrastructure and platforms on which such operation occurred.

(6) A description of relevant legal, operational, and funding authorities, including Execute Orders and Deployment Orders.

(7) Information relating to the total amount of funding required and associated program elements.

(8) Any other matters the Secretary determines relevant.

(b) CLASSIFICATION.—The Secretary of Defense shall provide each report required under subsection (a) at a classification level the Secretary determines appropriate.

(c) LIMITATION.—This section does not apply to cyber-enabled military information support operations.

(d) DEFINITION.—In this section, the term ''military cyberspace operations'' means defensive and offensive—

(1) cyber effects enabling operations, activities, and missions; and

(2) cyber effects operations, activities, and missions.

SEC. 1631. REPORT ON SYNCHRONIZATION OF EFFORTS RELATING TO CYBERSECURITY IN THE DEFENSE INDUSTRIAL BASE.

(a) REPORT.—Not later than May 1, 2020, the Secretary of Defense shall submit to the congressional defense committees a report on efforts, and roles and responsibilities, relating to cybersecurity in the Defense Industrial Base.

(b) ELEMENTS.—The report under subsection (a) shall include the following:

(1) Definitions for ''Controlled Unclassified Information'' (CUI) and ''For Official Use Only'' (FOUO), as well as policies regarding protecting information designated as such.

(2) A comprehensive list of Department of Defense programs to assist the Defense Industrial Base with cybersecurity compliance requirements of the Department.

(3) An evaluation of the resources and utilization of Department programs to assist the Defense Industrial Base in complying with cybersecurity compliance requirements referred to in paragraph (2).

(4) Optimal levels of resourcing required for activities, programs, and other Department efforts to assess and monitor compliance by the Defense Industrial Base with such cybersecurity compliance requirements.

(5) Roles and responsibilities of the Under Secretary of Defense for Acquisition and Sustainment, the Chief Information Officer, the Chief Management Officer, the Director of the Protecting Critical Technologies Task Force, and the Secretaries of the military services relating to the following:

(A) Establishing and ensuring compliance with cybersecurity standards, regulations, and policies.

(B) Deconflicting existing cybersecurity standards, regulations, and policies.

(C) Coordinating with and providing assistance to the Defense Industrial Base for cybersecurity matters, particularly such relates to the issues described in paragraphs (2), (3), and (8).

(6) Efforts to enhance the Department's visibility into its entire supply chain without violating privity.

(7) An evaluation of methodologies to tier cybersecurity requirements for the Defense Industrial Base relative to risk.

(8) Efforts to support and enhance threat information sharing between the Department and the Defense Industrial Base.

(9) An evaluation of a single Sector Coordinating Council for the Defense Industrial Base.

(10) An explanation of the Department's Protecting Critical Technologies Task Force efforts, and how its work will be incorporated into existing Department efforts.

(11) Any other information the Secretary of Defense determines relevant.

(c) DEFINITION.—In this section, the term ''Defense Industrial Base'' includes traditional and non-traditional defense contractors and academic institutions with contractual relationships with the Department of Defense related to activities involving information or technology requiring cybersecurity compliance.

SEC. 1632. BRIEFINGS ON THE STATUS OF THE NATIONAL SECURITY AGENCY AND UNITED STATES CYBER COMMAND PARTNERSHIP.

(a) IN GENERAL.—Not later than 90 days after the date of the enactment of this Act and quarterly thereafter, the Secretary of Defense and the Director of National Intelligence shall provide to the congressional defense committees and the Permanent Select Committee on Intelligence of the House of Representatives and the Select Committee on Intelligence of the Senate briefings on the nature of the National Security Agency and United States Cyber Command's current and future partnership. Briefings under this section shall terminate on January 1, 2022.

(b) ELEMENTS.—Each briefing under this section shall include the following:

(1) Status updates on the current and future National Security Agency-United States Cyber Command partnership efforts.

(2) Executed documents, written memoranda of agreements or understandings, and policies issued governing such current and future partnership.

(3) Projected long-term efforts.

(4) Updates related to the assessment required under section 1642 of the National Defense Authorization Act for Fiscal Year 2017 (relating to limitation on termination of dual-hat arrangement for Commander of the United States Cyber Command; Public Law 114–328).

Subtitle D—Nuclear Forces

SEC. 1641. IMPROVEMENT TO ANNUAL REPORT ON THE MODERNIZATION OF THE NUCLEAR WEAPONS ENTERPRISE.

(a) EXTENSION.—Section 1043(a) of the National Defense Authorization Act for Fiscal Year 2012 (Public Law 112–81; 125 Stat. 1576), as most recently amended by section 1670 of the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Public Law 115–232; 132 Stat. 2157), is further amended in paragraph (1) by striking ''2023'' and inserting ''2024''.

(b) ACQUISITION COSTS.—Paragraph (2) of such section is amended—

(1) by redesignating subparagraph (G) as subparagraph (I); and

(2) by inserting after subparagraph (F) the following new subparagraphs:

"(G) For the 10-year period following the date of the report, an estimate of the relative percentage of acquisition costs of the military departments, and of the entire Department of Defense, represented by the costs to the Department of Defense to modernize and recapitalize the nuclear weapons enterprise.

"(H) A plan covering the 25-year period following the date of the report that—

"(i) covers the research and development and production relating to nuclear weapons that are being modernized or sustained, including with respect to—

"(I) associated delivery systems or platforms that carry nuclear weapons;

"(II) nuclear command and control systems; and

"(III) facilities, infrastructure, and critical skills; and

"(ii) includes estimated timelines for such research and development and production, and the estimated acquisition and life cycle costs, including estimated cost ranges if necessary, to modernize or recapitalize each system.".

(c) TRANSFER OF PROVISION.—

(1) CODIFICATION.—Such section 1043, as amended by subsections (a) and (b), is—

(A) transferred to chapter 24 of title 10, United States Code;

(B) inserted after section 492;

(C) redesignated as section 492a; and

(D) amended—

(i) in the enumerator, by striking "SEC." and inserting "§"; and

(ii) in the section heading—

(I) by striking the period at the end; and

(II) by conforming the typeface and typestyle, including capitalization, to the typeface and typestyle as used

in the section heading of section 491 of such title.

(2) CLERICAL AMENDMENT.—The table of sections at the beginning of chapter 24 of title 10, United States Code, is amended by inserting after the item relating to section 492 the following new item:

"492a. Annual report on the plan for the nuclear weapons stockpile, nuclear weapons complex, nuclear weapons delivery systems, and nuclear weapons command and control system.".

SEC. 1642. BRIEFINGS ON MEETINGS HELD BY THE NUCLEAR WEAPONS COUNCIL.

Section 179 of title 10, United States Code, is amended by adding at the end the following new subsection:

"(g) SEMIANNUAL BRIEFINGS.—Not later than 30 days after the date of the enactment of the National Defense Authorization Act for Fiscal Year 2020, and semiannually thereafter, the Council shall—

"(1) provide to the congressional defense committees a briefing on, with respect to the period covered by the briefing—

"(A) the dates on which the Council met; and

"(B) a summary of any decisions made by the Council pursuant to subsection (d) at each such meeting, except with respect to budget de-

cisions relating to the budget of the President for a fiscal year if the request for that fiscal year has not been submitted to Congress as of the date of the briefing; and

''(2) submit to such committees at the time of the briefing—

''(A) any decision memoranda relating to the decisions specified in paragraph (1)(B); and

''(B) a summary of the rationale and considerations that informed such decision.''.

SEC. 1643. ELIMINATION OF CONVENTIONAL REQUIREMENT FOR LONG-RANGE STANDOFF WEAPON.

Subsection (a) of section 217 of the National Defense Authorization Act for Fiscal Year 2014 (Public Law 113–66; 127 Stat. 706), as amended by section 1662 of the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Public Law 115–232; 132 Stat. 2152), is amended to read as follows:

''(a) LONG-RANGE STANDOFF WEAPON.—The Secretary of the Air Force shall develop a follow-on air-launched cruise missile to the AGM–86 that—

''(1) achieves initial operating capability for nuclear missions prior to the retirement of the nuclear-armed AGM–86; and

"(2) is capable of internal carriage and employment for nuclear missions on the next-generation long-range strike bomber.".

SEC. 1644. EXTENSION OF ANNUAL BRIEFING ON THE COSTS OF FORWARD-DEPLOYING NUCLEAR WEAPONS IN EUROPE.

Section 1656(a) of the National Defense Authorization Act for Fiscal Year 2016 (Public Law 114–92; 129 Stat. 1124) is amended—

(1) by striking "2021" and inserting "2024"; and

(2) by inserting ", the Committee on Foreign Affairs of the House of Representatives, and the Committee on Foreign Relations of the Senate" after "the congressional defense committees".

SEC. 1645. TEN-YEAR EXTENSION OF PROHIBITION ON AVAILABILITY OF FUNDS FOR MOBILE VARIANT OF GROUND-BASED STRATEGIC DETERRENT MISSILE.

Section 1664 of the National Defense Authorization Act for Fiscal Year 2017 (Public Law 114–328; 130 Stat. 2615), as most recently amended by section 1666 of the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Public Law 115–232), is amended by

striking ''for any of fiscal years 2017 through 2020'' and inserting ''for any of fiscal years 2017 through 2030''.

SEC. 1646. PROHIBITION ON AVAILABILITY OF FUNDS FOR DEPLOYMENT OF LOW-YIELD BALLISTIC MISSILE WARHEAD.

None of the funds authorized to be appropriated by this Act or otherwise made available for fiscal year 2020 for the Department of Defense may be used to deploy the W76–2 low-yield warhead.

SEC. 1647. REPORT ON MILITARY-TO-MILITARY DIALOGUE TO REDUCE THE RISK OF MISCALCULATION LEADING TO NUCLEAR WAR.

Not later than 120 days after the date of the enactment of this Act, the Secretary of Defense, in coordination with the Secretary of State, shall submit to the congressional defense committee, the Committee on Foreign Affairs of the House of Representatives, and the Committee on Foreign Relations of the Senate a report containing the following:

(1) A description of—

(A) current military-to-military discussions of the United States with counterparts from governments of foreign countries to reduce the risk of miscalculation, unintended consequences,

or accidents that could precipitate a nuclear war; and

(B) bilateral and multilateral agreements to which the United States is a party that address such risks.

(2) An assessment conducted jointly by the Secretary and the Chairman of the Joint Chiefs of Staff of the policy and operational necessity, risks, benefits, and costs of establishing military-to-military discussions with Russia, China, and North Korea to address such risks.

SEC. 1648. PLAN ON NUCLEAR COMMAND, CONTROL, AND COMMUNICATIONS SYSTEMS.

(a) PLAN.—Not later than 270 days after the date of the enactment of this Act, the Secretary of Defense, in coordination with the Commander of the United States Strategic Command, shall submit to the appropriate congressional committees a plan on the future of the nuclear command, control, and communications systems.

(b) MATTERS INCLUDED.—The plan under subsection (a) shall address the following:

(1) Near- and long-term plans and options to recapitalize the nuclear command, control, and communications systems to ensure the resilience of such systems.

(2) Requirements for such systems, including with respect to survivability and reliability.

(3) The risks and benefits of replicating the current architecture for such systems as of the date of the plan.

(4) The risks and benefits of using different architectures for such systems, including, at a minimum, using hosted payloads.

(5) Whether such architectures should be classified or unclassified.

(6) Requirements and plans to ensure the security of the supply chain of nuclear command, control, and communications systems.

(7) Timelines and general cost estimates for long-term investments in such systems.

(8) Options for potential negotiation with adversaries, including with respect to agreements to not target nuclear command, control, and communications systems through kinetic, nonkinetic, or cyber attacks.

(9) Any other matters the Secretary determines appropriate.

(c) INTERIM BRIEFING.—Not later than 90 days after the date of the enactment of this Act, the Secretary, in coordination with the Commander, shall provide to the

1 congressional defense committees a briefing on the plan
2 under subsection (a).

3 **SEC. 1649. INDEPENDENT STUDY ON POLICY OF NO-FIRST-**
4 **USE OF NUCLEAR WEAPONS.**

5 (a) STUDY.—Not later than 30 days after the date
6 of the enactment of this Act, the Secretary of Defense
7 shall seek to enter into a contract with a federally funded
8 research and development center to conduct a study on
9 the United States adopting a policy to not use nuclear
10 weapons first.

11 (b) MATTERS INCLUDED.—The study under sub-
12 section (a) shall include the following:

13 (1) An assessment of the benefits of a policy to
14 not use nuclear weapons first in reducing the risk of
15 miscalculation in a crisis.

16 (2) An assessment of the likely reactions of the
17 allies of the United States with respect to the United
18 States adopting such a policy and how any negative
19 reactions could be mitigated, including the value of
20 engaging such allies to offer credible extended deter-
21 rence assurances.

22 (3) An assessment of which foreign countries
23 have stated or adopted such a policy.

24 (4) An assessment of how adversaries of the
25 United States might view such a policy.

(5) An assessment of the benefits and risks of such a policy with respect to nuclear nonproliferation.

(6) An assessment of changes in force posture and force requirements, if any, and costs or savings, that such a policy would entail.

(7) Any other matters the Secretary determines appropriate.

(c) SUBMISSION TO DOD.—Not later than 210 days after the date of the enactment of this Act, the federally funded research and development center shall submit to the Secretary the study under subsection (a).

(d) SUBMISSION TO CONGRESS.—Not later than 240 days after the date of the enactment of this Act, the Secretary shall submit to the congressional defense committees, the Committee on Foreign Affairs of the House of Representatives, and the Committee on Foreign Relations of the Senate the study under subsection (a), without change.

(e) FORM.—The study under subsection (a) shall be submitted under subsections (c) and (d) in unclassified form, but may include a classified annex.

SEC. 1650. INDEPENDENT STUDY ON RISKS OF NUCLEAR TERRORISM AND NUCLEAR WAR.

(a) STUDY.—Not later than 30 days after the date of the enactment of this Act, the Secretary of Defense shall seek to enter into an agreement with the National Academy of Sciences to conduct a study on the potential risks of nuclear terrorism and nuclear war.

(b) MATTERS INCLUDED.—The study under subsection (a) shall—

(1) quantify the potential risks of nuclear terrorism and nuclear war, including the level of uncertainty;

(2) assess prior literature on such risks;

(3) assess the role that quantitative risk analysis and other disciplines can play in quantifying such risks, including the limitations of such analysis and disciplines;

(4) assess the extent to which the nuclear strategy of the United States is consistent with the risks of nuclear terrorism and nuclear war identified in the study; and

(5) provide recommendations as to whether fundamental assumptions about the national security strategy of the United States might need to be reconsidered.

(c) SUBMISSION.—Not later than one year after the date of the enactment of this Act, the Secretary shall submit to the congressional defense committees the study under subsection (a), without change.

(d) FORM.—The study shall be submitted under subsection (c) in unclassified form, but may include a classified annex.

Subtitle E—Missile Defense Programs

SEC. 1661. NATIONAL MISSILE DEFENSE POLICY.

(a) POLICY.—Subsection (a) of section 1681 of the National Defense Authorization Act for Fiscal Year 2017 (Public Law 114–328; 10 U.S.C. 2431 note) is amended to read as follows:

''(a) POLICY.—It is the policy of the United States to—

''(1) maintain and improve, with funding subject to the annual authorization of appropriations and the annual appropriation of funds for National Missile Defense—

''(A) an effective protection of the homeland of the United States against offensive missile threats posed by rogue states; and

''(B) an effective regional missile defense system capable of defending the allies, partners,

and deployed forces of the United States against increasingly complex missile threats; and

''(2) rely on nuclear deterrence to address more sophisticated and larger quantity near-peer intercontinental ballistic missile threats.''.

(b) BRIEFING.—Not later than January 31, 2020, the Director of Cost Assessment and Program Evaluation shall provide to the Committee on Armed Services of the House of Representatives a briefing on the programmatic impacts across the Department of Defense with respect to the implementation of the Missile Defense Review issued in 2019.

SEC. 1662. DEVELOPMENT OF HYPERSONIC AND BALLISTIC MISSILE TRACKING SPACE SENSOR PAYLOAD.

(a) DEVELOPMENT.—Section 1683 of the National Defense Authorization Act for Fiscal Year 2018 (Public Law 115–91; 10 U.S.C. 2431 note) is amended—

(1) by redesignating subsections (d), (e), (f), (g), and (h), as subsections (e), (f), (g), (h), and (j), respectively; and

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

''(d) HYPERSONIC AND BALLISTIC MISSILE TRACKING SPACE SENSOR PAYLOAD.—The Director, in coordi-

nation with the Director of the Space Development Agency and the Secretary of the Air Force, shall—

"(1) develop a hypersonic and ballistic missile tracking space sensor payload; and

"(2) include such payload as a component of the sensor architecture developed under subsection (a).".

(b) UPDATED PLAN.—Such section is further amended by inserting after subsection (h), as redesignated by subsection (a), the following new subsection:

"(i) UPDATED PLAN.—Not later than 90 days after the date of the enactment of the National Defense Authorization Act for Fiscal Year 2020, the Director of the Missile Defense Agency, in coordination with the Director of the Space Development Agency and the Secretary of the Air Force, shall submit to the appropriate congressional committees an update to the plan under subsection (h), including the following:

"(1) How the Director of the Missile Defense Agency, in coordination with the Director of the Space Development Agency and the Secretary, will develop the payload under subsection (d) and include such payload in the sensor architecture developed under subsection (a).

"(2) How such payload will address the requirement of the United States Strategic Command for a hypersonic and ballistic missile tracking space sensing capability.

"(3) The estimated costs (in accordance with subsection (e)) to develop, acquire, and deploy, and the lifecycle costs to operate and sustain, the payload under subsection (f) and include such payload in the sensor architecture developed under subsection (a).".

(c) CONFORMING AMENDMENT.—Subsection (h)(1) of such section, as redesignated by subsection (a), is amended by striking "with subsection (d)" and inserting "with subsection (e)".

SEC. 1663. REQUIREMENT FOR TESTING OF REDESIGNED KILL VEHICLE PRIOR TO PRODUCTION.

(a) SENSE OF CONGRESS.—It is the sense of Congress that the Director of the Missile Defense Agency must address the technical issues of the redesigned kill vehicle prior to moving forward with development, procurement, and fielding of the vehicle.

(b) MODIFICATIONS TO WAIVER REQUIREMENTS.—Subsection (b) of section 1683 of the John S. McCain National Defense Authorization Act for Fiscal Year 2019

(Public Law 115–232; 132 Stat. 2163) is amended to read as follows:

"(b) WAIVER.—The Secretary of Defense, without delegation, may waive subsection (a) if—

"(1) the Secretary determines that the waiver is in the interest of national security;

"(2) the Secretary conducts an assessment of the missile developments of both North Korea and Iran during the 18-month period preceding the date of the waiver;

"(3) the Secretary determines that the threat of missiles is advancing at a pace that requires additional capacity of the ground-based midcourse defense system by 2023, including in light of the assessment conducted under paragraph (2);

"(4) the Secretary determines that the waiver is appropriate in light of the assessment conducted by the Director of Operational Test and Evaluation under subsection (c);

"(5) the Secretary submits to the congressional defense committees a report containing—

"(A) a notice of the waiver, including the rationale of the Secretary for making the waiver; and

"(B) a certification by the Secretary that the Secretary has analyzed and accepts the risk of making and implementing a lot production decision for the redesigned kill vehicle prior to the vehicle undergoing a successful flight intercept test; and

"(6) a period of 30 days elapses following the date on which the Secretary submits the report under paragraph (5).".

(c) MODIFICATION TO ASSESSMENT.—Subsection (c) of such section is amended by inserting "and to the congressional defense committees" after "to the Secretary of Defense".

SEC. 1664. DEVELOPMENT OF SPACE-BASED BALLISTIC MISSILE INTERCEPT LAYER.

Section 1688 of the National Defense Authorization Act for Fiscal Year 2018 (Public Law 115–91; 10 U.S.C. 2431 note) is amended—

(1) by striking subsection (c); and

(2) by redesignating subsection (d) as subsection (c).

SEC. 1665. ORGANIZATION, AUTHORITIES, AND BILLETS OF THE MISSILE DEFENSE AGENCY.

(a) INDEPENDENT STUDY.—

(1) ASSESSMENT.—In accordance with paragraph (2), the Secretary of Defense shall seek to enter into a contract with a federally funded research and development center to conduct a study assessing—

(A) the organization of the Missile Defense Agency under the Under Secretary of Defense for Research and Engineering pursuant to section 205(b) of title 10, United States Code;

(B) alternative ways to organize the Agency under other officials of the Department of Defense, including the Under Secretary for Acquisition and Sustainment and any other official of the Department the federally funded research and development center determines appropriate; and

(C) transitioning the Agency to the standard acquisition process pursuant to Department of Defense Instruction 5000, including both the risks and benefits of making such a transition.

(2) SCOPE OF STUDY.—Before entering into the contract with a federally funded research and development center to conduct the study under paragraph (1), the Secretary shall provide to the congressional

defense committees an update on the scope of such study.

(3) SUBMISSION TO DOD.—Not later than 150 days after the date of the enactment of this Act, the federally funded research and development center shall submit to the Secretary a report containing the study conducted under paragraph (1).

(4) SUBMISSION TO CONGRESS.—Not later than 180 days after the date of the enactment of this Act, the Secretary shall submit to the congressional defense committees the study under paragraph (1), without change.

(b) NOTIFICATION ON CHANGES TO NON-STANDARD ACQUISITION PROCESSES AND RESPONSIBILITIES.—

(1) LIMITATION.—None of the funds authorized to be appropriated by this Act or otherwise made available for fiscal year 2020 for the Secretary of Defense may be obligated or expended to change the non-standard acquisition processes and responsibilities described in paragraph (2) until—

(A) the Secretary notifies the congressional defense committees of such proposed change; and

(B) a period of 90 days has elapsed following the date of such notification.

(2) NON-STANDARD ACQUISITION PROCESSES AND RESPONSIBILITIES DESCRIBED.—The non-standard acquisition processes and responsibilities described in this paragraph are such processes and responsibilities described in—

(A) the memorandum of the Secretary of Defense titled ''Missile Defense Program Direction'' signed on January 2, 2002;

(B) Department of Defense Directive 5134.09, as in effect on the date of the enactment of this Act; and

(C) United States Strategic Command Instruction 583–3.

(c) LIMITATION ON CERTAIN TRANSFERS OF BILLETS.—During fiscal year 2020, the Secretary of Defense may not transfer civilian or military billets from the Missile Defense Agency to any element of the Department under the Under Secretary of Defense for Research and Engineering until, for each such transfer—

(1) the Secretary notifies the congressional defense committees of such proposed transfer; and

(2) a period of 90 days has elapsed following the date of such notification.

SEC. 1666. MISSILE DEFENSE INTERCEPTOR SITE IN CONTIGUOUS UNITED STATES.

(a) DESIGNATION.—The Secretary shall designate the preferred location of a missile defense site in the contiguous United States from among the locations evaluated pursuant to section 227 of the National Defense Authorization Act for Fiscal Year 2013 (Public Law 112–239; 126 Stat. 1678). The Secretary shall make such designation based on the following:

(1) The environmental impact statement prepared pursuant to section 227 of the National Defense Authorization Act for Fiscal Year 2013 (Public Law 112–239; 126 Stat. 1678).

(2) Strategic and operational effectiveness, including with respect to the location that is the most advantageous site in providing coverage to the entire contiguous United States, including having the capability to provide shoot-assess-shoot coverage to the entire contiguous United States.

(3) Construction remediation efforts and impacts to the existing environment at the site.

(4) The existing infrastructure at the site.

(5) The costs to construct, equip, and operate the site.

(b) REPORT.—Not later than January 31, 2020, the Secretary shall submit to the congressional defense com-

mittees a report on the designation made under subsection (a) with respect to each factor specified in paragraphs (1) through (5) of such subsection.

(c) RULE OF CONSTRUCTION.—Nothing in this section may be construed—

(1) as requiring the Secretary of Defense to begin a military construction project relating to the missile defense site in the contiguous United States; or

(2) as a statement that there is any current military requirement for such a site.

(d) CONFORMING REPEAL.—Section 1681 of the National Defense Authorization Act for Fiscal Year 2018 (Public Law 115–91; 131 Stat. 1776) is repealed.

SEC. 1667. MISSILE DEFENSE RADAR IN HAWAII.

(a) CONSTRUCTION OF HOMELAND DEFENSE RADAR–HAWAII.—Subject to subsection (b), the Director of the Missile Defense Agency may use funds authorized to be appropriated by this Act or otherwise made available for fiscal year 2020 for research, development, test, and evaluation for the Missile Defense Agency to design, build, and integrate the foundation of the homeland defense radar in Hawaii and the thermal control system of the radar.

(b) LIMITATION.—Of the funds authorized to be appropriated by this Act or otherwise made available for fiscal year 2020 for research, development, test, and evaluation for the homeland defense radar in Hawaii, not more than 85 percent may be obligated or expended until the Director—

(1) completes the critical design review of the radar;

(2) submits to the congressional defense committees an assessment conducted by the Army Corps of Engineers on the research, development, test, and evaluation proposal to design, build, and integrate the foundation of the radar and the thermal control system of the radar that highlights any unique components of such proposal; and

(3) provides to such committees a briefing on incorporating the foundation and thermal control system into the overall design of the radar.

SEC. 1668. LIMITATION ON AVAILABILITY OF FUNDS FOR LOWER TIER AIR AND MISSILE SENSOR.

(a) LIMITATION.—Of the funds authorized to be appropriated by this Act or otherwise made available for fiscal year 2020 for the Army for the lower tier air and missile defense sensor, not more than 75 percent may be obli-

gated or expended until the Secretary of the Army submits the report under subsection (b).

(b) REPORT.—The Secretary of the Army shall submit to the congressional defense committees a report on the test and demonstration of lower tier air and missile defense sensors that occurred during the third quarter of fiscal year 2019. Such report shall include the following:

(1) An explanation of how the test and demonstration was conducted and what the test and demonstration set out to achieve, including—

(A) an explanation of the performance specifications used; and

(B) a description of the emulated threats used in the test and demonstration and how such threats compare to emerging regional air and missile threats.

(2) An explanation of the capability of the sensor system that the Secretary determined to be the winner of the test and demonstration, including with respect to—

(A) the capability of such sensor system against key threats and requirements, including whether such sensor system will be delivered with full 360-degree coverage and the ability of

such sensor system to detect, track, and surveil targets;

(B) the estimated procurement and life-cycle costs of operating such sensor system; and

(C) the cost, timeline, and approach that will be used to integrate the lower tier air and missile defense sensor with other sensors using the Integrated Air and Missile Defense Battle Command System.

(3) An explanation of whether future performance improvements to the lower tier air and missile defense sensor are conditional on intellectual property and how such improvements will be made if the United States does not own such intellectual property.

SEC. 1669. COMMAND AND CONTROL, BATTLE MANAGEMENT, AND COMMUNICATIONS PROGRAM.

(a) LIMITATION ON SALE.—The Director of the Missile Defense Agency may not pursue release of the command and control, battle management, and communications program (or any variants thereof) for export until the date on which the Director submits the report under subsection (b).

(b) REPORT.—Not later than 90 days after the date of the enactment of this Act, the Director shall submit

to the congressional defense committees, the Committee on Foreign Affairs of the House of Representatives, and the Committee on Foreign Relations of the Senate a report containing the following:

(1) An explanation of the rationale of the Director for considering to export the command and control, battle management, and communications program (or any variants thereof) in light of the critical role of the program in the strategic national defense of the United States and the allies of the United States against ballistic missile attack.

(2) The findings of the market research and analysis conducted by the Director regarding exportable command and control solutions for ballistic missile defense, including such solutions that are internationally available.

SEC. 1670. ANNUAL ASSESSMENT OF BALLISTIC MISSILE DEFENSE SYSTEM.

(a) SENSE OF CONGRESS.—It is the sense of Congress that operational test and evaluation of elements of the ballistic missile defense system should be conducted thoroughly in accordance with section 2399 of title 10, United States Code, including with respect to the reports required to be submitted to the congressional defense committees under subsection (b) of such section regarding the

results of testing conducted on major defense acquisition programs.

(b) ANNUAL ASSESSMENT.—As part of the annual report of the Director of Operational Test and Evaluation submitted to Congress under section 139 of title 10, United States Code, the Director shall include an assessment of the ballistic missile defense system and all of the elements of the system that have been fielded or are planned, as of the date of the assessment, including—

(1) the operational effectiveness, suitability, and survivability of the ballistic missile defense system and the elements of the system that have been fielded or tested; and

(2) the adequacy and sufficiency of the test program of such system as of the date of the assessment, including with respect to the operational realism of the tests.

(c) FORM.—Each assessment under subsection (a) may be submitted in unclassified form, and may include a classified annex.

Subtitle F—Other Matters

SEC. 1681. MODIFICATION TO REPORTS ON CERTAIN SOLID ROCKET MOTORS.

Section 1696(b) of the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Public Law 115–232; 132 Stat. 2171) is amended—

(1) by striking ''rockets or missiles'' and inserting ''rockets, missiles, or space launch services'' each place it appears; and

(2) in paragraph (2)(C), by striking ''rocket or missile'' and inserting ''rocket, missile, or space launch service''.

SEC. 1682. REPEAL OF REVIEW REQUIREMENT FOR AMMONIUM PERCHLORATE REPORT.

Section 1694(d) of the National Defense Authorization Act for Fiscal Year 2018 (Public Law 115–91; 131 Stat. 1792) is repealed.

SEC. 1683. REPEAL OF REQUIREMENT FOR COMMISSION ON ELECTROMAGNETIC PULSE ATTACKS AND SIMILAR EVENTS.

(a) FINDINGS.—Congress finds the following:

(1) On March 26, 2019, the President released the ''Executive Order on Coordinating National Resilience to Electromagnetic Pulses''.

(2) The Executive Order codifies policy, roles, and responsibilities within the executive branch in order to foster sustainable, efficient, and cost-effective approaches to improving the resilience of the United States to the effects of electromagnetic pulses.

(b) REPEAL.—Section 1691 of the National Defense Authorization Act for Fiscal Year 2018 (Public Law 115–91; 131 Stat. 1786) is repealed.

SEC. 1684. CONVENTIONAL PROMPT GLOBAL STRIKE WEAPON SYSTEM.

(a) SENSE OF CONGRESS.—It is the sense of Congress that—

(1) the Under Secretary of Defense for Policy has not adequately responded to Congress regarding the miscalculation and ambiguity risks posed by hypersonic weapons, specifically from submarine-launched platforms, including pursuant to the report required by section 1698 of the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Public Law 115-232; 132 Stat. 2172); and

(2) the Secretary of Defense should coordinate technology maturation efforts to develop common technologies for hypersonics, and should leverage defense laboratories and university partners to lead

foundational hypersonic research in areas the Secretary determines appropriate for the Department of Defense.

(b) PROHIBITION.—None of the funds authorized to be appropriated by this Act or otherwise made available for fiscal year 2020 for the conventional prompt global strike weapon system may be used for a submarine-launched conventional prompt global strike capability, including with respect to developing or testing such a capability, unless such capability—

(1) is transferrable to a surface-launched platform; and

(2) is not exclusive to submarines.

(c) REPORT.—Not later than 120 days after the date of the enactment of this Act, the Secretary of the Navy shall submit to the congressional defense committees a report on the programmatic changes required to integrate the conventional prompt global strike weapon system into the DDG–1000 program or other surface ships.

DIVISION B—MILITARY CONSTRUCTION AUTHORIZATIONS

SEC. 2001. SHORT TITLE.

This division may be cited as the ''Military Construction Authorization Act for Fiscal Year 2020''.

SEC. 2002. EXPIRATION OF AUTHORIZATIONS AND AMOUNTS REQUIRED TO BE SPECIFIED BY LAW.

(a) EXPIRATION OF AUTHORIZATIONS AFTER FIVE YEARS.—Except as provided in subsection (b), all authorizations contained in titles XXI through XXX (other than title XXVIII) for military construction projects, land acquisition, family housing projects and facilities, and contributions to the North Atlantic Treaty Organization Security Investment Program (and authorizations of appropriations therefor) shall expire on the later of—

(1) October 1, 2024; or

(2) the date of the enactment of an Act authorizing funds for military construction for fiscal year 2025.

(b) EXCEPTION.—Subsection (a) shall not apply to authorizations for military construction projects, land acquisition, family housing projects and facilities, and contributions to the North Atlantic Treaty Organization Security Investment Program (and authorizations of appropriations therefor), for which appropriated funds have been obligated before the later of—

(1) October 1, 2024; or

(2) the date of the enactment of an Act authorizing funds for fiscal year 2025 for military construction projects, land acquisition, family housing

projects and facilities, or contributions to the North Atlantic Treaty Organization Security Investment Program.

SEC. 2003. EFFECTIVE DATE.

Titles XXI through XXX (other than title XXVIII) shall take effect on the later of—

(1) October 1, 2019; or

(2) the date of the enactment of this Act.

TITLE XXI—ARMY MILITARY CONSTRUCTION

SEC. 2101. AUTHORIZED ARMY CONSTRUCTION AND LAND ACQUISITION PROJECTS.

(a) INSIDE THE UNITED STATES.—Using amounts appropriated pursuant to the authorization of appropriations in section 2103(a) and available for military construction projects inside the United States as specified in the funding table in section 4601, the Secretary of the Army may acquire real property and carry out military construction projects for the installations or locations inside the United States, and in the amounts, set forth in the following table:

Army: Inside the United States

State	Installation	Amount
Alabama	Redstone Arsenal	$38,000,000
Colorado	Fort Carson	$71,000,000
Georgia	Fort Gordon	$107,000,000
	Hunter Army Airfield	$62,000,000
Kentucky	Fort Campbell	$61,300,000
Kwajalein	Kwajalein Atoll	$40,000,000
Massachusetts	Natick Soldier Systems Center	$50,000,000
Michigan	Detroit Arsenal	$24,000,000

Army: Inside the United States—Continued

State	Installation	Amount
New York	Fort Drum	$44,000,000
North Carolina	Fort Bragg	$12,500,000
Oklahoma	Fort Sill	$73,000,000
Pennsylvania	Carlisle Barracks	$98,000,000
South Carolina	Fort Jackson	$88,000,000
Texas	Corpus Christi Army Depot	$86,000,000
	Fort Hood	$50,500,000
Virginia	Fort Belvoir	$60,000,000
	Joint Base Langley-Eustis	$55,000,000
Washington	Joint Base Lewis-McChord	$46,000,000

(b) OUTSIDE THE UNITED STATES.—Using amounts appropriated pursuant to the authorization of appropriations in section 2103(a) and available for military construction projects outside the United States as specified in the funding table in section 4601, the Secretary of the Army may acquire real property and carry out the military construction project for the installation or location outside the United States, and in the amount, set forth in the following table:

Army: Outside the United States

Country	Installation	Amount
Honduras	Soto Cano Air Base	$34,000,000

(c) STUDY OF NEAR-TERM FACILITY ALTERNATIVES TO HOUSE HIGH VALUE DETAINEES.—

(1) STUDY REQUIRED.—The Secretary of Defense shall conduct a study of alternatives to meet the near-term facility requirements to safely and humanely house high value detainees current detained at Naval Station Guantanamo Bay, Cuba. As part

of the study, the Secretary shall consider the following alternatives:

(A) The construction of new facilities.

(B) The repair of current facilities.

(C) The renovation and repurposing of other facilities at Naval Station Guantanamo Bay, Cuba.

(D) Such other alternatives as the Secretary considers practicable.

(2) SUBMISSION OF RESULTS.—Not later than 90 days after the date of the enactment of this Act, the Secretary of Defense shall submit to the congressional defense committees a report containing the results of the study conducted under paragraph (1). The report shall be unclassified, but may include a classified annex.

SEC. 2102. FAMILY HOUSING.

(a) CONSTRUCTION AND ACQUISITION.—Using amounts appropriated pursuant to the authorization of appropriations in section 2103(a) and available for military family housing functions as specified in the funding table in section 4601, the Secretary of the Army may construct or acquire family housing units (including land acquisition and supporting facilities) at the installation, and in the amount, set forth in the following table:

Army: Family Housing

State/Country	Installation	Units	Amount
Pennsylvania	Tobyhanna Army Depot	Family Housing Replacement Construction	$19,000,000

1 (b) PLANNING AND DESIGN.—Using amounts appro-
2 priated pursuant to the authorization of appropriations in
3 section 2103(a) and available for military family housing
4 functions as specified in the funding table in section 4601,
5 the Secretary of the Army may carry out architectural and
6 engineering services and construction design activities
7 with respect to the construction or improvement of family
8 housing units in an amount not to exceed $9,222,000.

9 **SEC. 2103. AUTHORIZATION OF APPROPRIATIONS, ARMY.**

10 (a) AUTHORIZATION OF APPROPRIATIONS.—Funds
11 are hereby authorized to be appropriated for fiscal years
12 beginning after September 30, 2019, for military con-
13 struction, land acquisition, and military family housing
14 functions of the Department of the Army as specified in
15 the funding table in section 4601.

16 (b) LIMITATION ON TOTAL COST OF CONSTRUCTION
17 PROJECTS.—Notwithstanding the cost variations author-
18 ized by section 2853 of title 10, United States Code, and
19 any other cost variation authorized by law, the total cost
20 of all projects carried out under section 2101 of this Act
21 may not exceed the total amount authorized to be appro-

priated under subsection (a), as specified in the funding table in section 4601.

SEC. 2104. MODIFICATION OF AUTHORITY TO CARRY OUT CERTAIN FISCAL YEAR 2019 PROJECTS.

(a) ANNISTON ARMY DEPOT, ALABAMA.—In the case of the authorization contained in the table in section 2101(a) of the National Defense Authorization Act for Fiscal Year 2019 (Public Law 115–232; 132 Stat. 2241) for Anniston Army Depot, Alabama, for construction of a weapon maintenance shop, as specified in the funding table in section 4601 of such Act (132 Stat. 2401), the Secretary of the Army may construct a 21,000-square foot weapon maintenance shop.

(b) UNITED STATES MILITARY ACADEMY, NEW YORK.—The table in section 2101(a) of the National Defense Authorization Act for Fiscal Year 2019 (Public Law 115–232; 132 Stat. 2241) is amended in the item relating to the United States Military Academy, New York, by striking ''$160,000,000'' and inserting ''$197,000,000'' for construction of a Consolidated Engineering Center and Parking Structure rather than the separate projects specified in the funding table in section 4601 of such Act (132 Stat. 2401).

TITLE XXII—NAVY MILITARY CONSTRUCTION

SEC. 2201. AUTHORIZED NAVY CONSTRUCTION AND LAND ACQUISITION PROJECTS.

(a) INSIDE THE UNITED STATES.—Using amounts appropriated pursuant to the authorization of appropriations in section 2204(a) and available for military construction projects inside the United States as specified in the funding table in section 4601, the Secretary of the Navy may acquire real property and carry out military construction projects for the installations or locations inside the United States, and in the amounts, set forth in the following table:

Navy: Inside the United States

State	Installation or Location	Amount
Arizona	Marine Corps Air Station Yuma	$ 189,760,000
California	Camp Pendleton	$185,569,000
	Marine Corps Air Station Miramar	$37,400,000
	Naval Air Weapons Station China Lake	$64,500,000
	Navel Base Coronado	$165,830,000
	Naval Base San Diego	$9,900,000
	Naval Weapons Station Seal Beach	$123,310,000
	Travis Air Force Base	$64,000,000
Connecticut	Naval Submarine Base New London	$72,260,000
Florida	Blount Island	$18,700,000
	Naval Air Station Jacksonville	$32,420,000
Guam	Joint Region Marianas	$226,000,000
Hawaii	Marine Corps Air Station Kaneohe Bay	$134,050,000
	Naval Ammunition Depot West Loch	$53,790,000
Maryland	Saint Inigoes	$15,000,000
North Carolina	Camp Lejeune	$217,440,000
	Marine Corps Air Station Cherry Point	$114,570,000
	Marine Corps Air Station New River	$11,320,000
Pennsylvania	Philadelphia	$66,000,000
South Carolina	Parris Island	$37,200,000
Virginia	Marine Corps Base Quantico	$143,350,000
	Naval Station Norfolk	$128,100,000
	Portsmouth Naval Shipyard	$48,930,000
	Yorktown Naval Weapons Station	$59,000,000
Washington	Bremerton	$51,010,000
	Keyport	$25,050,000

(b) OUTSIDE THE UNITED STATES.—Using amounts appropriated pursuant to the authorization of appropriations in section 2204(a) and available for military construction projects outside the United States as specified in the funding table in section 4601, the Secretary of the Navy may acquire real property and carry out military construction projects for the installations or locations outside the United States, and in the amounts, set forth in the following table:

Navy: Outside the United States

Country	Installation or Location	Amount
Japan	Fleet Activities Yokosuka	$174,692,000
	Marine Corps Air Station Iwakuni	$15,870,000

SEC. 2202. FAMILY HOUSING.

Using amounts appropriated pursuant to the authorization of appropriations in section 2204(a) and available for military family housing functions as specified in the funding table in section 4601, the Secretary of the Navy may carry out architectural and engineering services and construction design activities with respect to the construction or improvement of family housing units in an amount not to exceed $5,863,000.

SEC. 2203. IMPROVEMENTS TO MILITARY FAMILY HOUSING UNITS.

Subject to section 2825 of title 10, United States Code, and using amounts appropriated pursuant to the

authorization of appropriations in section 2204(a) and available for military family housing functions as specified in the funding table in section 4601, the Secretary of the Navy may improve existing military family housing units in an amount not to exceed $41,798,000.

SEC. 2204. AUTHORIZATION OF APPROPRIATIONS, NAVY.

(a) AUTHORIZATION OF APPROPRIATIONS.—Funds are hereby authorized to be appropriated for fiscal years beginning after September 30, 2019, for military construction, land acquisition, and military family housing functions of the Department of the Navy, as specified in the funding table in section 4601.

(b) LIMITATION ON TOTAL COST OF CONSTRUCTION PROJECTS.—Notwithstanding the cost variations authorized by section 2853 of title 10, United States Code, and any other cost variation authorized by law, the total cost of all projects carried out under section 2201 of this Act may not exceed the total amount authorized to be appropriated under subsection (a), as specified in the funding table in section 4601.

SEC. 2205. MODIFICATION OF AUTHORITY TO CARRY OUT CERTAIN FISCAL YEAR 2017 PROJECT.

The table in section 2201(a) of the National Defense Authorization Act for Fiscal Year 2017 (Public Law 114–328; 130 Stat. 2691) is amended in the item relating to

Bangor, Washington, by striking ''$113,415,000'' and inserting ''$161,415,000'' for construction of a SEAWOLF Class Service Pier, as specified in the funding table in section 4601 of such Act (130 Stat. 2876).

TITLE XXIII—AIR FORCE MILITARY CONSTRUCTION

SEC. 2301. AUTHORIZED AIR FORCE CONSTRUCTION AND LAND ACQUISITION PROJECTS.

(a) INSIDE THE UNITED STATES.—Using amounts appropriated pursuant to the authorization of appropriations in section 2304(a) and available for military construction projects inside the United States as specified in the funding table in section 4601, the Secretary of the Air Force may acquire real property and carry out military construction projects for the installations or locations inside the United States, and in the amounts, set forth in the following table:

Air Force: Inside the United States

State	Installation or Location	Amount
Alaska	Eielson Air Force Base	$8,600,000
Arkansas	Little Rock Air Force Base	$47,000,000
California	Travis Air Force Base	$43,100,000
Colorado	Peterson Air Force Base	$54,000,000
	Schriever Air Force Base	$148,000,000
	United States Air Force Academy	$49,000,000
Georgia	Moody Air Force Base	$12,500,000
Guam	Joint Region Marianas	$65,000,000
Illinois	Scott Air Force Base	$100,000,000
Mariana Islands	Tinian	$316,000,000
Missouri	Whiteman Air Force Base	$27,000,000
Montana	Malmstrom Air Force Base	$235,000,000
Nevada	Nellis Air Force Base	$65,200,000
New Mexico	Holloman Air Force Base	$20,000,000
	Kirtland Air Force Base	$37,900,000
Texas	Joint Base San Antonio	$207,300,000

Air Force: Inside the United States—Continued

State	Installation or Location	Amount
	Joint Base San Antonio-Randolph	$36,000,000
Utah	Hill Air Force Base	$114,500,000
Washington	Fairchild-White Bluff	$31,000,000

(b) OUTSIDE THE UNITED STATES.—Using amounts appropriated pursuant to the authorization of appropriations in section 2304(a) and available for military construction projects outside the United States as specified in the funding table in section 4601, the Secretary of the Air Force may acquire real property and carry out military construction projects for the installations or locations outside the United States, and in the amounts, set forth in the following table:

Air Force: Outside the United States

Country	Installation or Location	Amount
Australia	Tindal	$70,600,000
Cyprus	Royal Air Force Akrotiri	$27,000,000
Japan	Yokota Air Base	$12,400,000
United Kingdom	Royal Air Force Lakenheath	$14,300,000

SEC. 2302. FAMILY HOUSING.

(a) CONSTRUCTION AND ACQUISITION.—Using amounts appropriated pursuant to the authorization of appropriations in section 2304(a) and available for military family housing functions as specified in the funding table in section 4601, the Secretary of the Air Force may construct or acquire family housing units (including land acquisition and supporting facilities) at the installation, and in the amount, set forth in the following table:

Air Force: Family Housing

Country	Installation	Units	Amount
Germany	Spangdahlem Air Base	Family Housing Construction	$53,584,000

1 (b) PLANNING AND DESIGN.—Using amounts appro-
2 priated pursuant to the authorization of appropriations in
3 section 2304(a) and available for military family housing
4 functions as specified in the funding table in section 4601,
5 the Secretary of the Air Force may carry out architectural
6 and engineering services and construction design activities
7 with respect to the construction or improvement of family
8 housing units in an amount not to exceed $3,409,000.

9 **SEC. 2303. IMPROVEMENTS TO MILITARY FAMILY HOUSING**
10 **UNITS.**

11 Subject to section 2825 of title 10, United States
12 Code, and using amounts appropriated pursuant to the
13 authorization of appropriations in section 2304(a) and
14 available for military family housing functions as specified
15 in the funding table in section 4601, the Secretary of the
16 Air Force may improve existing military family housing
17 units in an amount not to exceed $53,584,000.

18 **SEC. 2304. AUTHORIZATION OF APPROPRIATIONS, AIR**
19 **FORCE.**

20 (a) AUTHORIZATION OF APPROPRIATIONS.—Funds
21 are hereby authorized to be appropriated for fiscal years
22 beginning after September 30, 2019, for military con-

1 struction, land acquisition, and military family housing
2 functions of the Department of the Air Force, as specified
3 in the funding table in section 4601.

4 (b) LIMITATION ON TOTAL COST OF CONSTRUCTION
5 PROJECTS.—Notwithstanding the cost variations author-
6 ized by section 2853 of title 10, United States Code, and
7 any other cost variation authorized by law, the total cost
8 of all projects carried out under section 2301 of this Act
9 may not exceed the total amount authorized to be appro-
10 priated under subsection (a), as specified in the funding
11 table in section 4601.

12 **SEC. 2305. MODIFICATION OF AUTHORITIES TO CARRY OUT**
13 **PHASED JOINT INTELLIGENCE ANALYSIS**
14 **COMPLEX CONSOLIDATION.**

15 (a) FISCAL YEAR 2015 PROJECT AUTHORITY.—In
16 the case of the authorization contained in the table in sec-
17 tion 2301(b) of the National Defense Authorization Act
18 for Fiscal Year 2015 (Public Law 113–291; 128 Stat.
19 3679) for Royal Air Force Croughton, United Kingdom,
20 for Phase 1 of the Joint Intelligence Analysis Complex
21 consolidation, as specified in the funding table in section
22 4601 of such Act (128 Stat. 3973), the Secretary of the
23 Air Force shall carry out the construction at Royal Air
24 Force Molesworth, United Kingdom.

(b) FISCAL YEAR 2016 PROJECT AUTHORITY.—In the case of the authorization contained in the table in section 2301(b) of the National Defense Authorization Act for Fiscal Year 2016 (Public Law 114–92; 129 Stat. 1153), for Royal Air Force Croughton, United Kingdom, for Phase 2 of the Joint Intelligence Analysis Complex consolidation, as specified in the funding table in section 4601 of such Act (129 Stat. 1294), the Secretary of the Air Force may construct a 5,152-square meter Intelligence Analytic Center, a 5,234-square meter Intelligence Fusion Center, and a 807-square meter Battlefield Information Collection and Exploitation System Center at Royal Air Force Molesworth, United Kingdom.

(c) FISCAL YEAR 2017 PROJECT AUTHORITY.—In the case of the authorization contained in the table in section 2301(b) of the National Defense Authorization Act for Fiscal Year 2017 (Public Law 114–328; 130 Stat. 2697), for Royal Air Force Croughton, United Kingdom, for Phase 3 of the Joint Intelligence Analysis Complex consolidation, as specified in the funding table in section 4601 of such Act (130 Stat. 2878), the Secretary of the Air Force may construct a 1,562-square meter Regional Joint Intelligence Training Facility and a 4,495-square meter Combatant Command Intelligence Facility at Royal Air Force Molesworth, United Kingdom.

(d) CONFORMING REPEAL.—Section 2305 of the National Defense Authorization Act for Fiscal Year 2019 (Public Law 115–232; 132 Stat. 2247) is repealed.

SEC. 2306. MODIFICATION OF AUTHORITY TO CARRY OUT CERTAIN FISCAL YEAR 2016 PROJECT.

The table in section 2301(a) of the National Defense Authorization Act for Fiscal Year 2016 (Public Law 114–92; 129 Stat. 1152) is amended in the item relating to Nellis Air Force Base, Nevada, by striking ''$68,950,000'' and inserting ''$72,050,000'' for construction of F-35A Munitions Maintenance Facilities, as specified in the funding table in section 4601 of such Act (129 Stat. 1293).

SEC. 2307. MODIFICATION OF AUTHORITY TO CARRY OUT CERTAIN FISCAL YEAR 2017 PROJECT.

The table in section 2301(a) of the National Defense Authorization Act for Fiscal Year 2017 (Public Law 114–328; 130 Stat. 2696) is amended in the item relating to Fairchild Air Force Base, Washington, by striking ''$27,000,000'' and inserting ''$31,800,000'' for construction of a SERE School Pipeline Dormitory, as specified in the funding table in section 4601 of such Act (130 Stat. 2878).

SEC. 2308. MODIFICATION OF AUTHORITY TO CARRY OUT CERTAIN FISCAL YEAR 2018 PROJECTS.

(a) LITTLE ROCK AIR FORCE BASE, ARKANSAS.—The table in section 2301(a) of the National Defense Authorization Act for Fiscal Year 2018 (Public Law 115–91; 131 Stat. 1825) is amended in the item relating to Little Rock Air Force Base, Arkansas, by striking ''$20,000,000'' and inserting ''$27,000,000'' for construction of a dormitory facility, as specified in the funding table in section 4601 of such Act (131 Stat. 2002).

(b) JOINT BASE SAN ANTONIO, TEXAS.—In the case of the authorization contained in the table in section 2301(a) of the National Defense Authorization Act for Fiscal Year 2018 (Public Law 115–91; 131 Stat. 1826) for Joint Base San Antonio, Texas, the Secretary of the Air Force may construct—

(1) a 750-square meter equipment building for construction of a Classrooms/Dining Facility, as specified in the funding table in section 4601 of such Act (131 Stat. 2003); and

(2) a 636-square meter air traffic control tower for construction of an Air Traffic Control Tower, as specified in the funding table in section 4601 of such Act (131 Stat. 2003).

(c) F.E. WARREN AIR FORCE BASE, WYOMING.—The table in section 2301(a) of the National Defense Au-

thorization Act for Fiscal Year 2018 (Public Law 115–91; 131 Stat. 1825) is amended in the item relating to F.E. Warren Air Force Base, Wyoming, by striking ''$62,000,000'' and inserting ''$80,100,000'' for construction of a Consolidated Helo/TRF Ops/AMU and Alert Facility, as specified in the funding table in section 4601 of such Act (131 Stat. 2004).

(d) RYGGE AIR STATION, NORWAY.—In the case of the authorization contained in the table in section 2903 of the National Defense Authorization Act for Fiscal Year 2018 (Public Law 115–91; 131 Stat. 1876) for Rygge Air Station, Norway, for replacement/expansion of a Quick Reaction Alert Pad, as specified in the funding table in section 4602 of such Act (131 Stat. 2014), the Secretary of the Air Force may construct 1,327 square meters of aircraft shelter and a 404-square meter fire protection support building.

(e) INCIRLIK AIR BASE, TURKEY.—In the case of the authorization contained in the table in section 2903 of the National Defense Authorization Act for Fiscal Year 2018 (Public Law 115–91; 131 Stat. 1876) for Incirlik Air Base, Turkey, for Relocating Base Main Access Control Point, as specified in the funding table in section 4602 of such Act (131 Stat. 2015), the Secretary of the Air

Force may construct a 176-square meter pedestrian search building.

SEC. 2309. MODIFICATION OF AUTHORITY TO CARRY OUT CERTAIN FISCAL YEAR 2019 PROJECTS.

(a) HANSCOM AIR FORCE BASE, MASSACHUSETTS.—In the case of the authorization contained in the table in section 2301(a) of the National Defense Authorization Act for Fiscal Year 2019 (Public Law 115–232; 132 Stat. 2246) for Hanscom Air Force Base, Massachusetts, for the construction of a semi-conductor/microelectronics laboratory facility, as specified in the funding table in section 4601 of such Act (132 Stat. 2405), the Secretary of the Air Force may construct a 1,000 kilowatt stand-by generator.

(b) MINOT AIR FORCE BASE, NORTH DAKOTA.—The table in section 2301(a) of the National Defense Authorization Act for Fiscal Year 2019 (Public Law 115–232; 132 Stat. 2246) is amended in the item relating to Minot Air Force Base, North Dakota, by striking ''$66,000,000'' and inserting ''$71,500,000'' for construction of a Consolidated Helo/TRF Ops/AMU and Alert Facility, as specified in the funding table in section 4601 of such Act (132 Stat. 2405).

(c) ROYAL AIR FORCE LAKENHEATH, UNITED KINGDOM.—In the case of the authorization contained in the

table in section 2301(b) of the National Defense Authorization Act for Fiscal Year 2019 (Public Law 115–232; 132 Stat. 2247) for Royal Air Force Lakenheath, United Kingdom, for the construction of an F–35A Dormitory, as specified in the funding table in section 4601 of such Act (132 Stat. 2405), the Secretary of the Air Force may construct a 5,900-square meter dormitory.

TITLE XXIV—DEFENSE AGENCIES MILITARY CONSTRUCTION

SEC. 2401. AUTHORIZED DEFENSE AGENCIES CONSTRUCTION AND LAND ACQUISITION PROJECTS.

(a) INSIDE THE UNITED STATES.—Using amounts appropriated pursuant to the authorization of appropriations in section 2403(a) and available for military construction projects inside the United States as specified in the funding table in section 4601, the Secretary of Defense may acquire real property and carry out military construction projects for the installations or locations inside the United States, and in the amounts, set forth in the following table:

Defense Agencies: Inside the United States

State	Installation or Location	Amount
California	Beale Air Force Base	$33,700,000
	Camp Pendleton	$17,700,000
Florida	Eglin Air Force Base	$16,500,000
	Hurlburt Field	$108,386,000
	Naval Air Station Key West	$16,000,000
Guam	Joint Region Marianas	$19,200,000
Hawaii	Joint Base Pearl Harbor-Hickam	$67,700,000
Maryland	Fort Detrick	$27,846,000

Defense Agencies: Inside the United States—Continued

State	Installation or Location	Amount
Mississippi	Columbus Air Force Base	$16,800,000
North Carolina	Camp Lejeune	$13,400,000
	Fort Bragg	$84,103,000
Oklahoma	Tulsa International Airport	$18,900,000
Rhode Island	Quonset State Airport	$11,600,000
South Carolina	Joint Base Charleston	$33,300,000
South Dakota	Ellsworth Air Force Base	$24,800,000
Virginia	Defense Distribution Depot Richmond	$98,800,000
	Joint Expeditionary Base Little Creek - Fort Story	$45,604,000
	Pentagon	$28,802,000
	Training Center Dam Neck	$12,770,000
Washington	Joint Base Lewis-McChord	$47,700,000
Wisconsin	General Mitchell International Airport	$25,900,000
CONUS Classified	Classified Location	$82,200,000

(b) OUTSIDE THE UNITED STATES.—Using amounts appropriated pursuant to the authorization of appropriations in section 2403(a) and available for military construction projects outside the United States as specified in the funding table in section 4601, the Secretary of Defense may acquire real property and carry out military construction projects for the installations or locations outside the United States, and in the amounts, set forth in the following table:

Defense Agencies: Outside the United States

Country	Installation or Location	Amount
Germany	Geilenkirchen Air Base	$30,479,000
Japan	Yokota Air Base	$136,411,000

SEC. 2402. AUTHORIZED ENERGY RESILIENCY AND ENERGY CONSERVATION PROJECTS.

Using amounts appropriated pursuant to the authorization of appropriations in section 2403(a), the Secretary of Defense may carry out energy resiliency and energy conservation projects under chapter 173 of title 10,

United States Code, as specified in the funding table in section 4601.

SEC. 2403. AUTHORIZATION OF APPROPRIATIONS, DEFENSE AGENCIES.

(a) AUTHORIZATION OF APPROPRIATIONS.—Funds are hereby authorized to be appropriated for fiscal years beginning after September 30, 2019, for military construction, land acquisition, and military family housing functions of the Department of Defense (other than the military departments), as specified in the funding table in section 4601.

(b) LIMITATION ON TOTAL COST OF CONSTRUCTION PROJECTS.—Notwithstanding the cost variations authorized by section 2853 of title 10, United States Code, and any other cost variation authorized by law, the total cost of all projects carried out under section 2401 of this Act may not exceed the total amount authorized to be appropriated under subsection (a), as specified in the funding table in section 4601.

TITLE XXV—INTERNATIONAL PROGRAMS

Subtitle A—North Atlantic Treaty Organization Security Investment Program

SEC. 2501. AUTHORIZED NATO CONSTRUCTION AND LAND ACQUISITION PROJECTS.

The Secretary of Defense may make contributions for the North Atlantic Treaty Organization Security Investment Program as provided in section 2806 of title 10, United States Code, in an amount not to exceed the sum of the amount authorized to be appropriated for this purpose in section 2502 and the amount collected from the North Atlantic Treaty Organization as a result of construction previously financed by the United States.

SEC. 2502. AUTHORIZATION OF APPROPRIATIONS, NATO.

(a) AUTHORIZATION.—Funds are hereby authorized to be appropriated for fiscal years beginning after September 30, 2019, for contributions by the Secretary of Defense under section 2806 of title 10, United States Code, for the share of the United States of the cost of projects for the North Atlantic Treaty Organization Security Investment Program authorized by section 2501 as specified in the funding table in section 4601.

(b) AUTHORITY TO RECOGNIZE NATO AUTHORIZATION AMOUNTS AS BUDGETARY RESOURCES FOR PROJECT EXECUTION.—When the United States is designated as the Host Nation for the purposes of executing a project under the NATO Security Investment Program (NSIP), the Department of Defense construction agent may recognize the NATO project authorization amounts as budgetary resources to incur obligations for the purposes of executing the NSIP project.

Subtitle B—Host Country In-Kind Contributions

SEC. 2511. REPUBLIC OF KOREA FUNDED CONSTRUCTION PROJECTS.

Pursuant to agreement with the Republic of Korea for required in-kind contributions, the Secretary of Defense may accept military construction projects for the installations or locations in the Republic of Korea, and in the amounts, set forth in the following table:

Republic of Korea Funded Construction Projects

Component	Installation or Location	Project	Amount
Army	Camp Carroll	Army Prepositioned Stock-4 Wheeled Vehicle Maintenance Facility	$51,000,000
Army	Camp Humphreys	Unaccompanied Enlisted Personnel Housing, P1	$154,000,000
Army	Camp Humphreys	Unaccompanied Enlisted Personnel Housing, P2	$211,000,000
Army	Camp Humphreys	Satellite Communications Facility	$32,000,000
Air Force	Gwangju Air Base	Hydrant Fuel System	$35,000,000
Air Force	Kunsan Air Base	Upgrade Electrical Distribution System	$14,200,000

Republic of Korea Funded Construction Projects—Continued

Component	Installation or Location	Project	Amount
Air Force ...	Kunsan Air Base	Dining Facility	$21,000,000
Air Force ...	Suwon Air Base	Hydrant Fuel System	$24,000,000

TITLE XXVI—GUARD AND RESERVE FORCES FACILITIES

SEC. 2601. AUTHORIZED ARMY NATIONAL GUARD CONSTRUCTION AND LAND ACQUISITION PROJECTS.

Using amounts appropriated pursuant to the authorization of appropriations in section 2606 and available for the National Guard and Reserve as specified in the funding table in section 4601, the Secretary of the Army may acquire real property and carry out military construction projects for the Army National Guard locations inside the United States, and in the amounts, set forth in the following table:

Army National Guard

State	Location	Amount
Alabama	Anniston Army Depot	$34,000,000
	Foley	$12,000,000
California	Camp Roberts	$12,000,000
Idaho	Orchard Combat Training Center	$29,000,000
Maryland	Havre De Grace	$12,000,000
Massachusetts	Camp Edwards	$9,700,000
Minnesota	New Ulm	$11,200,000
Mississippi	Camp Shelby	$8,100,000
Missouri	Springfield	$12,000,000
Nebraska	Bellevue	$29,000,000
New Hampshire	Concord	$5,950,000
New York	Jamaica Armory	$91,000,000
Pennsylvania	Moon Township	$23,000,000
Vermont	Jericho	$30,000,000
Washington	Richland	$11,400,000

SEC. 2602. AUTHORIZED ARMY RESERVE CONSTRUCTION AND LAND ACQUISITION PROJECTS.

Using amounts appropriated pursuant to the authorization of appropriations in section 2606 and available for the National Guard and Reserve as specified in the funding table in section 4601, the Secretary of the Army may acquire real property and carry out military construction projects for the Army Reserve locations inside the United States, and in the amounts, set forth in the following table:

Army Reserve

State	Location	Amount
Delaware	Newark Army Reserve Center	$21,000,000
Wisconsin	Fort McCoy	$25,000,000

SEC. 2603. AUTHORIZED NAVY RESERVE AND MARINE CORPS RESERVE CONSTRUCTION AND LAND ACQUISITION PROJECTS.

Using amounts appropriated pursuant to the authorization of appropriations in section 2606 and available for the National Guard and Reserve as specified in the funding table in section 4601, the Secretary of the Navy may acquire real property and carry out military construction projects for the Navy Reserve and Marine Corps Reserve locations inside the United States, and in the amounts, set forth in the following table:

Navy Reserve and Marine Corps Reserve

State	Location	Amount
Louisiana	New Orleans	$25,260,000

1 **SEC. 2604. AUTHORIZED AIR NATIONAL GUARD CONSTRUC-**
2 **TION AND LAND ACQUISITION PROJECTS.**

3 Using amounts appropriated pursuant to the author-
4 ization of appropriations in section 2606 and available for
5 the National Guard and Reserve as specified in the fund-
6 ing table in section 4601, the Secretary of the Air Force
7 may acquire real property and carry out military construc-
8 tion projects for the Air National Guard locations inside
9 the United States, and in the amounts, set forth in the
10 following table:

Air National Guard

State	Location	Amount
California	Moffett Air National Guard Base	$57,000,000
Georgia	Savannah/Hilton Head International Airport	$24,000,000
Missouri	Rosecrans Memorial Airport	$9,500,000
Puerto Rico	Luis Munoz-Marin International Airport	$50,000,000
Wisconsin	Truax Field	$34,000,000

11 **SEC. 2605. AUTHORIZED AIR FORCE RESERVE CONSTRUC-**
12 **TION AND LAND ACQUISITION PROJECTS.**

13 Using amounts appropriated pursuant to the author-
14 ization of appropriations in section 2606 and available for
15 the National Guard and Reserve as specified in the fund-
16 ing table in section 4601, the Secretary of the Air Force
17 may acquire real property and carry out military construc-
18 tion projects for the Air Force Reserve locations inside

the United States, and in the amounts, set forth in the following table:

Air Force Reserve

State	Location	Amount
Georgia	Robins Air Force Base	$43,000,000
Maryland	Joint Base Andrews	$15,000,000
Minnesota	Minneapolis-St. Paul IAP	$9,800,000

SEC. 2606. AUTHORIZATION OF APPROPRIATIONS, NATIONAL GUARD AND RESERVE.

Funds are hereby authorized to be appropriated for fiscal years beginning after September 30, 2019, for the costs of acquisition, architectural and engineering services, and construction of facilities for the Guard and Reserve Forces, and for contributions therefor, under chapter 1803 of title 10, United States Code (including the cost of acquisition of land for those facilities), as specified in the funding table in section 4601.

TITLE XXVII—BASE REALIGNMENT AND CLOSURE ACTIVITIES

SEC. 2701. AUTHORIZATION OF APPROPRIATIONS FOR BASE REALIGNMENT AND CLOSURE ACTIVITIES FUNDED THROUGH DEPARTMENT OF DEFENSE BASE CLOSURE ACCOUNT.

Funds are hereby authorized to be appropriated for fiscal years beginning after September 30, 2019, for base realignment and closure activities, including real property

acquisition and military construction projects, as authorized by the Defense Base Closure and Realignment Act of 1990 (part A of title XXIX of Public Law 101–510; 10 U.S.C. 2687 note) and funded through the Department of Defense Base Closure Account established by section 2906 of such Act (as amended by section 2711 of the Military Construction Authorization Act for Fiscal Year 2013 (division B of Public Law 112–239; 126 Stat. 2140)), as specified in the funding table in section 4601.

TITLE XXVIII—MILITARY CONSTRUCTION GENERAL PROVISIONS

Subtitle A—Military Construction Program Changes

SEC. 2801. PROHIBITION ON USE OF MILITARY CONSTRUCTION FUNDS FOR CONSTRUCTION OF A WALL, FENCE, OR OTHER PHYSICAL BARRIER ALONG THE SOUTHERN BORDER OF THE UNITED STATES.

(a) PROHIBITION.—Military construction funds may not be obligated, expended, or otherwise used to design or carry out a project to construct, replace, or modify a wall, fence, or other physical barrier along the international border between the United States and Mexico.

(b) DEFINITIONS.—In this section:

(1) MILITARY CONSTRUCTION FUNDS.—The term ''military construction funds'' means—

(A) amounts authorized to be appropriated for a military construction project authorized in this division or authorized in any Military Construction Authorization Act for any of fiscal years 2015 through 2019, including any amounts of such an authorization made available to the Department of Defense and transferred to another authorization by the Secretary of Defense pursuant to transfer authority available to the Secretary; and

(B) funds appropriated in any Act for a military construction project described in subparagraph (A).

(2) MILITARY CONSTRUCTION PROJECT.—The term ''military construction project'' has the meaning given that term in section 2801 of title 10, United States Code.

SEC. 2802. MODIFICATION AND CLARIFICATION OF CONSTRUCTION AUTHORITY IN THE EVENT OF A DECLARATION OF WAR OR NATIONAL EMERGENCY.

(a) LIMITATION ON AMOUNT OF FUNDS AVAILABLE FOR NATIONAL EMERGENCY.—Section 2808 of title 10, United States Code, is amended—

(1) by redesignating subsections (b) and (c) as subsections (e) and (f), respectively; and

(2) by inserting after subsection (a) the following new subsection:

''(c) LIMITATION ON AMOUNT OF FUNDS AVAILABLE FOR NATIONAL EMERGENCY.—(1) Except as provided in paragraph (2), in the event of a declaration by the President of a national emergency in which the construction authority described in subsection (a) is used, the total cost of all military construction projects undertaken using that authority during the national emergency may not exceed $500,000,000.

''(2) In the event of a national emergency declaration in which the construction authority described in subsection (a) will be used only within the United States, the total cost of all military construction projects undertaken using that authority during the national emergency may not exceed $100,000,000.''.

(b) ADDITIONAL CONDITION ON SOURCE OF FUNDS.—Section 2808(a) of title 10, United States Code, is amended—

(1) in the second sentence—

(A) by striking ''Such projects may'' and inserting the following:

''(b) CONDITIONS ON SOURCE OF FUNDS.—(1) Military construction projects to be undertaken using the construction authority described in subsection (a) may''; and

(B) by inserting before the period at the end of the sentence the following: ''and that the Secretary of Defense determines are otherwise unexecutable''; and

(2) by adding after the second sentence the following:

''(2) For purposes of paragraph (1), the Secretary may determine that funds appropriated for military construction are unexecutable if—

''(A) a military construction project for which the funds were appropriated has been cancelled, for a reason other than to provide funds to carry out military construction under this section; or

''(B) the cost of a military construction project for which the funds were appropriated has been reduced because of project modifications or other cost

savings, for a reason other than to provide funds to carry out military construction under this section.''.

(c) WAIVER OF OTHER PROVISIONS OF LAW.—Section 2808 of title 10, United States Code, is amended by inserting after subsection (c), as added by subsection (a), the following new subsection:

''(d) WAIVER OF OTHER PROVISIONS OF LAW IN EVENT OF NATIONAL EMERGENCY.—In the event of a declaration by the President of a national emergency in which the construction authority described in subsection (a) is used, the authority provided by such subsection to waive or disregard another provision of law that would otherwise apply to a military construction project authorized by this section may be used only if—

''(1) such other provision of law does not provide a means by which compliance with the requirements of the law may be waived, modified, or expedited; and

''(2) the Secretary of Defense determines that the nature of the national emergency necessitates the noncompliance with the requirements of the law.''.

(d) ADDITIONAL NOTIFICATION REQUIREMENTS.—Subsection (e) of section 2808 of title 10, United States Code, as redesignated by subsection (a)(1), is amended—

(1) by striking ''of the decision'' and all that follows through the end of the subsection and inserting the following: ''of the following:

''(A) The reasons for the decision to use the construction authority described in subsection (a), including, in the event of a declaration by the President of a national emergency, the reasons why use of the armed forces is required in response to the declared national emergency.

''(B) The construction projects to be undertaken using the construction authority described in subsection (a), including, in the event of a declaration by the President of a national emergency, an explanation of how each construction project directly supports the immediate security, logistical, or short-term housing and ancillary supporting facility needs of the members of the armed forces used in the national emergency.

''(C) The estimated cost of the construction projects to be undertaken using the construction authority described in subsection (a), including the cost of any real estate action pertaining to the construction projects, and certification of compliance with the funding conditions imposed by subsections (b) and (c).

"(D) Any determination made pursuant to subsection (d)(2) to waive or disregard another provision of law to undertake any construction project using the construction authority described in subsection (a).

"(E) The military construction projects, including any military family housing and ancillary supporting facility projects, to be canceled or deferred in order to provide funds to undertake construction projects using the construction authority described in subsection (a) and the possible impact of the cancellation or deferment of such military construction projects on military readiness and the quality of life of members of the armed forces and their dependents."; and

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

"(2) In the event of a declaration by the President of a national emergency in which the construction authority described in subsection (a) is used, a construction project to be undertaken using such construction authority may be carried out only after the end of the five-day period beginning on the date the notification required by paragraph (1) is received by the appropriate committees of Congress.".

(e) CLERICAL AMENDMENTS.—Section 2808 of title 10, United States Code, is further amended—

(1) in subsection (a), by inserting ''CONSTRUCTION AUTHORIZED.—'' after ''(a)'';

(2) in subsection (e), as redesignated by subsection (a)(1), by inserting ''NOTIFICATION REQUIREMENT.—(1)'' after ''(e)''; and

(3) in subsection (f), as redesignated by subsection (a)(1), by inserting ''TERMINATION OF AUTHORITY.—'' after ''(f)''.

SEC. 2803. INCLUSION OF INFORMATION REGARDING MILITARY INSTALLATION RESILIENCE IN MASTER PLANS FOR MAJOR MILITARY INSTALLATIONS.

(a) MILITARY INSTALLATION RESILIENCE.—Section 2864 of title 10, United States Code, is amended—

(1) in subsection (a)(1), by inserting ''military installation resilience,'' after ''master planning,'';

(2) by redesignating subsections (c) and (d) as subsections (e) and (f), respectively; and

(3) by inserting after subsection (b) the following new subsection:

''(c) MILITARY INSTALLATION RESILIENCE COMPONENT.—To address military installation resilience under

subsection (a)(1), each installation master plan shall discuss the following:

"(1) Risks and threats to military installation resilience that exist at the time of the development of the plan and that are projected for the future, including from extreme weather events, mean sea level fluctuation, wildfires, flooding, and other changes in environmental conditions.

"(2) Assets or infrastructure located on the military installation vulnerable to the risks and threats described in paragraph (1), with a special emphasis on assets or infrastructure critical to the mission of the installation and the mission of members of the armed forces.

"(3) Lessons learned from the impacts of extreme weather events, including changes made to the military installation to address such impacts, since the prior master plan developed under this section.

"(4) Ongoing or planned infrastructure projects or other measures, as of the time of the development of the plan, to mitigate the impacts of the risks and threats described in paragraph (1).

"(5) Community infrastructure and resources located outside the installation (such as medical fa-

cilities, transportation systems, and energy infrastructure) that are—

"(A) necessary to maintain mission capability or that impact the resilience of the military installation; and

"(B) vulnerable to the risks and threats described in paragraph (1).

"(6) Agreements in effect or planned, as of the time of the development of the plan, with public or private entities for the purpose of maintaining or enhancing military installation resilience or resilience of the community infrastructure and resources described in paragraph (5).

"(7) Projections from recognized governmental and scientific entities such as the Census Bureau, the National Academies of Sciences, the United States Geological Survey, and the United States Global Change Research Office (or any similar successor entities) with respect to future risks and threats (including the risks and threats described in paragraph (1)) to the resilience of any project considered in the installation master plan during the 50-year lifespan of the installation.".

(b) REPORT ON MASTER PLANS.—Section 2864 of title 10, United States Code, is amended by inserting after

subsection (c), as added by subsection (a), the following new subsection:

"(d) REPORT.—Not later than March 1 of each year, the Secretary of Defense shall submit to the congressional defense committees a report listing all master plans completed pursuant to this section in the prior calendar year.".

SEC. 2804. IMPROVED CONSULTATION WITH TRIBAL GOVERNMENTS WHEN PROPOSED MILITARY CONSTRUCTION PROJECTS POTENTIALLY IMPACT INDIAN TRIBES.

Section 2802 of title 10, United States Code, is amended by adding at the end the following new subsection:

"(f)(1) If a proposed military construction project has the potential to significantly affect tribal lands, sacred sites, or tribal treaty rights, the Secretary concerned shall initiate consultation with the tribal government of each impacted Indian tribe—

"(A) to determine the nature, extent, and estimated costs of the adverse impacts;

"(B) to determine whether the adverse impacts can be avoided or mitigated in the design and implementation of the project; and

"(C) if the adverse impacts cannot be avoided, to develop feasible measures to mitigate the impacts and estimate the cost of the mitigation measures.

"(2) As part of the Department of Defense Form 1391 submitted to the appropriate committees of Congress for a military construction project covered by paragraph (1), the Secretary concerned shall include a description of the current status of the consultation conducted under such paragraph and specifically address each of the items specified in subparagraphs (A), (B), and (C) of such paragraph.

"(3) In this subsection:

"(A) The term 'Indian tribe' has the meaning given that term in section 4 of the Indian Self-Determination and Education Assistance Act (25 U.S.C. 5304).

"(B) The term 'tribal government' means the recognized governing body of an Indian tribe.

"(C) The term 'sacred site' has the meaning given that term in Executive Order 13007, as in effect on the date of the enactment of the National Defense Authorization Act for Fiscal Year 2020.".

SEC. 2805. AMENDMENT OF UNIFIED FACILITIES CRITERIA TO PROMOTE MILITARY INSTALLATION RESILIENCE, ENERGY RESILIENCE, ENERGY AND CLIMATE RESILIENCY, AND CYBER RESILIENCE.

(a) AMENDMENT REQUIRED.—Not later than September 1, 2020, the Secretary of Defense shall amend the Unified Facility Criteria related to military construction planning and design to ensure that building practices and standards promote military installation resilience, energy resilience, energy and climate resiliency, and cyber resilience.

(b) CONDITIONAL AVAILABILITY OF FUNDS PENDING INITIATION OF AMENDMENT PROCESS.—Not more than 25 percent of the funds authorized to be appropriated for fiscal year 2020 for Department of Defense planning and design accounts related to military construction projects may be obligated until the date on which the Secretary of Defense submits to the Committees on Armed Services of the House of Representatives and the Senate a certification that the Secretary has initiated the process to amend the Unified Facility Criteria to comply with the requirements of subsection (a) and intends to complete the amendment process by the date specified in such subsection.

(c) IMPLEMENTATION OF UNIFIED FACILITIES CRITERIA AMENDMENT.—

(1) IMPLEMENTATION.—Any Department of Defense Form 1391 submitted to Congress after the date specified in subsection (a) must be in compliance with the Unified Facility Criteria, amended as required by subsection (a).

(2) CERTIFICATION.—Not later than March 1, 2021, the Secretary of Defense shall certify to the Committees on Armed Services of the House of Representatives and the Senate that the amendment required by subsection (a) and the amendment required by section 2805(c) of the Military Construction Authorization Act for Fiscal Year 2019 (division B of Public Law 115–232; 132 Stat. 2262; 10 U.S.C. 2864 note) have been completed and fully incorporated into military construction planning and design.

(d) ANNUAL REVIEW.—Beginning with fiscal year 2022, and annually thereafter, the Secretary of Defense shall conduct a review comparing the Unified Facility Criteria and industry best practices to ensure that military construction building practices and standards related to military installation resilience, energy resilience, energy and climate resiliency, and cyber resilience remain current.

(e) DEFINITIONS.—In this section:

(1) The terms ''energy resilience'' and ''military installation resilience'' have the meanings given those terms in section 101(e) of title 10, United States Code.

(2) The term ''energy and climate resiliency'' has the meaning given that term in section 2864 of title 10, United States Code.

SEC. 2806. MODIFICATION TO DEPARTMENT OF DEFENSE FORM 1391 REGARDING CONSIDERATION OF POTENTIAL LONG-TERM ADVERSE ENVIRONMENTAL EFFECTS.

(a) MODIFICATION.—

(1) CERTIFICATION REQUIREMENT.—The Secretary of Defense shall modify Department of Defense Form 1391 to require, with respect to any proposed major or minor military construction project requiring congressional notification or approval, the inclusion of a certification by the Secretary of Defense or the Secretary of the military department concerned that the proposed military construction project takes into consideration—

(A) the potential adverse consequences of long-term changes in environmental conditions, such as increasingly frequent extreme weather

events, that could affect the military installation resilience of the installation for which the military construction project is proposed; and

(B) building requirements in effect for the locality in which the military construction project is proposed and industry best practices that are developed to withstand extreme weather events and other consequences of changes in environmental conditions.

(2) ELEMENTS OF CERTIFICATION.—As part of the certification required by paragraph (1) for a proposed military construction project, the Secretary concerned shall identify the potential changes in environmental conditions, such as increasingly frequent extreme weather events, considered and addressed under subparagraphs (A) and (B) of paragraph (1).

(b) RELATION TO RECENT MODIFICATION REQUIREMENT.—The modification of Department of Defense Form 1391 required by subsection (a) is in addition to, and expands upon, the modification of Department of Defense Form 1391 with respect to flood risk disclosure for military construction required by section 2805(a) of the Military Construction Authorization Act for Fiscal Year 2019 (division B of Public Law 115–232; 132 Stat. 2262; 10 U.S.C. 2802 note).

(c) MILITARY INSTALLATION RESILIENCE DEFINED.—In this section, the term ''military installation resilience'' has the meaning given that term in section 101(e)(8) of title 10, United States Code.

Subtitle B—Military Family Housing Reforms

SEC. 2811. ENHANCED PROTECTIONS FOR MEMBERS OF THE ARMED FORCES AND THEIR DEPENDENTS RESIDING IN PRIVATIZED MILITARY HOUSING UNITS.

(a) SPECIFIED RIGHTS OF TENANCY IN PRIVATIZED MILITARY HOUSING UNITS.—

(1) IN GENERAL.—Section 2886 of title 10, United States Code, is amended to read as follows:

"§ 2886. Specified rights of tenancy in military housing units

''(a) CONTRACT REQUIREMENT FOR MILITARY HOUSING UNITS.—

''(1) INCLUSION OF RIGHTS OF TENANCY.—Each contract between the Secretary concerned and a landlord shall guarantee the rights of tenancy specified in this section for military tenants who reside in military housing units covered by the contract.

"(2) RULE OF CONSTRUCTION.—The rights of tenancy in military housing units specified in this section are not intended to be exclusive. The omission of a tenant right or protection shall not be construed to deny the existence of such a right or protection for military tenants.

"(3) WRITTEN LEASE AND EXPLANATION OF TENANCY.—(A) The lease between a landlord and military tenant shall be in writing to establish tenancy in a military housing unit. The landlord shall provide the military tenant with a copy of the lease, any addendums, and any other regulations imposed by the landlord regarding occupancy of the military housing unit and use of common areas.

"(B) The Secretary concerned shall require that a military tenant receive a plain-language briefing regarding the rights of tenancy guaranteed by this section and the respective responsibilities of landlords and military tenants related to tenancy, including the existence of any additional fees authorized by subsection (c)(2), any utilities payments, the procedures for submitting and tracking work orders, the identity of the military tenant advocate, and the dispute resolution process.

"(b) PROTECTION AGAINST RETALIATION.—

"(1) IN GENERAL.—A landlord may not retaliate against a military tenant, directly or through the chain-of-command of a member of the armed forces who is a military tenant, in response to a military tenant making a complaint relating to a military housing unit or common areas. Evidence of retaliation may include any of the following actions, including unsuccessful attempts to commit such an action:

"(A) Unlawful recovery of, or attempt to recover, possession of a military housing unit.

"(B) Unlawfully increasing the rent, decreasing services, or increasing the obligations of a military tenant.

"(C) Interference with a military tenant's right to privacy.

"(D) Harassment of a military tenant.

"(E) Refusal to honor the terms of the lease.

"(F) Interference with the career of a military tenant.

"(2) INVESTIGATION.—The Inspector General of the Department of Defense and the Inspector General of a military department may investigate allegations of retaliation against a military tenant in

connection with a complaint relating to a military housing unit.

"(c) PROHIBITION AGAINST COLLECTION OF AMOUNTS IN ADDITION TO RENT.—

"(1) IN GENERAL.—A landlord may not impose on a military tenant a supplemental payment, such as an out-of-pocket fee, in addition to the amount of rent the landlord charges for a unit of similar size and composition to the military housing unit, without regard to whether or not the amount of the member's basic allowance for housing under section 403 of title 37 is less than the amount of the rent.

"(2) EXCEPTIONS.—Nothing in paragraph (1) shall be construed—

"(A) to prohibit a landlord from imposing an additional payment—

"(i) for optional services provided to military tenants, such as access to a gym or a parking space;

"(ii) for non-essential utility services, as determined in accordance with regulations promulgated by the Secretary concerned; or

"(iii) to recover damages associated with tenant negligence; or

"(B) to limit or otherwise affect the authority of the Secretary concerned to enter into rental guarantee agreements under section 2876 of this title or to make differential lease payments under section 2877 of this title, so long as such agreements or payments do not require a military tenant to pay an out-of-pocket fee or payment in addition to the basic allowance for housing of the member.

"(d) DISPUTE RESOLUTION PROCESS.—

"(1) ESTABLISHMENT.—The Secretary concerned shall establish a dispute resolution process for the resolution of disputes between landlords and military tenants related to military housing units. The resolution process shall use neutral arbitrators and minimize costs incurred by military tenants to participate.

"(2) TREATMENT OF BASIC ALLOWANCE FOR HOUSING.—During the dispute resolution process between a landlord and military tenant, the Secretary concerned may withhold from the landlord amounts of the military tenant's basic allowance for housing under section 403 of title 37 that otherwise would be paid to the landlord directly by the military

tenant or through allotments of the pay of the military tenant under section 701 of such title.

''(e) PROMPT MAINTENANCE AND REPAIRS.—

''(1) IN GENERAL.—The Secretary concerned shall ensure that landlords—

''(A) respond promptly to requests for the maintenance or repair of a military housing unit; and

''(B) communicate effectively with military tenants regarding the schedule and status of maintenance or repair requests.

''(2) ELECTRONIC WORK ORDER SYSTEM.—To promote the policy objective described in paragraph (1), the Secretary concerned shall require the establishment of an electronic work order system through which a military tenant may request maintenance or repairs of a military housing unit and track the progress of the work.

''(3) ACCESS TO SYSTEM.—The electronic work order system shall be accessible—

''(A) to a military tenant to track a work request made through the system by the military tenant;

''(B) to military tenant advocates or a commander of the relevant military installation

to track a work request made through the system; and

"(C) to the landlord responsible for the military housing unit to track a work request made through the system by a military tenant.

"(f) DISCLOSURE OF HOUSING CODE VIOLATIONS AND HAZARDS.—

"(1) IN GENERAL.—Before accepting a rental application from a prospective military tenant to lease a military housing unit, the landlord must disclose to the prospective military tenant the following:

"(A) Any housing code violations with respect to the military housing unit incurred within the previous three years.

"(B) Either a three–year history of mold contamination with respect to the military housing unit and common areas or proof of proper remediation.

"(C) Either a three–year history of lead contamination in water with respect to the military housing unit and common areas or proof of proper remediation.

"(D) Either a three–year history of rodent infestation with respect to the military housing

unit and common areas or proof of proper remediation.

''(E) Any information regarding health-related symptoms among previous residents of the military housing unit that may have been the result of exposure to environmental hazards in the military housing unit or common areas, if such residents agreed to voluntarily disclose such information. The military tenant advocate shall inform military tenants of their option to disclose or decline to disclose such information.

''(2) CONTINUED REQUIREMENT.—The landlord must make the information referred to in paragraph (1) accessible to the military tenant throughout the lease of the military housing unit.

''(g) UNIT INSPECTIONS.—

''(1) MOVE-IN.—A military tenant is entitled to be present for an inspection of a military housing unit before accepting occupancy of the military housing unit to ensure that the military housing unit is habitable and that facilities and common areas of the building are in good repair.

''(2) MOVE-OUT.—A military tenant is entitled to be present for the move-out inspection and must be given sufficient time to address any concerns re-

lated to the military tenant's occupancy of the military housing unit.

"(h) MILITARY TENANT ADVOCATES.—(1)(A) The Secretary concerned shall assign personnel of the Department of Defense or contractor personnel to serve as a military tenant advocate—

"(i) to assist in the resolution of a dispute between a landlord and a military tenant; and

"(ii) to serve as a liaison between military tenants and landlords, officials in the chain of command at the installation, and the individual designated in paragraph (2) within the Office of the Secretary of Defense, with respect to concerns of military tenants at the applicable installation.

"(B) A military tenant advocate may not be an employee of a landlord or occupy office-space provided by a landlord.

"(2)(A) The Secretary of Defense shall designate an individual within the Office of the Secretary of Defense to serve as the liaison between the Secretary and the Secretaries concerned, the military tenant advocates under paragraph (1), landlords, and other offices of the Department as the Secretary determines appropriate with respect to military tenant issues.

"(B) Not later than one year after the date of the enactment of the National Defense Authorization Act for Fiscal Year 2020, and annually thereafter for the next two years, the individual designated under subparagraph (A) shall submit to the Secretary of Defense and the congressional defense committees a report containing a description of—

"(i) common issues encountered by military tenants with respect to military housing; and

"(ii) the responsiveness of landlords to tenant requests for the maintenance or repair of military housing units.".

(2) CLERICAL AMENDMENT.—The table of sections at the beginning of subchapter IV of title 10, United States Code, is amended by striking the item relating to section 2886 and inserting the following new item:

"2886. Specified rights of tenancy in military housing units.".

(b) DEFINITIONS.—Section 2871 of title 10, United States Code, is amended—

(1) by redesignating paragraphs (7) and (8) as paragraphs (10) and (11), respectively; and

(2) by inserting after paragraph (6) the following new paragraphs:

"(7) The term 'landlord' means an eligible entity that enters into a contract as a partner with the

Secretary concerned for the acquisition or construction of a military housing unit under this subchapter or any subsequent lessor who owns, manages, or is otherwise responsible for a military housing unit.

''(8) The term 'military housing unit' means a unit of military family housing or military unaccompanied housing acquired or constructed under this subchapter.

''(9) The term 'military tenant' means a member of the armed forces who occupies a military housing unit and any dependent of the member who is a party to a lease for a military housing unit or is authorized to act on behalf of the member in the event of the assignment or deployment of the member.''.

(c) IMPLEMENTATION REPORT.—Not later than March 1, 2020, the Secretary of Defense shall submit to the Committees on Armed Services of the House of Representatives and the Senate a report containing a plan to implement section 2886 of title 10, United States Code, as amended by subsection (a). In the report, the Secretary shall identify any circumstances that would impede application of the requirements of such section to existing contracts for the acquisition or construction of military family housing units or military unaccompanied housing units

under subchapter IV of chapter 169 of such title, and to existing contracts for the management of such military housing units.

SEC. 2812. PROHIBITION ON USE OF NONDISCLOSURE AGREEMENTS IN CONNECTION WITH LEASES OF MILITARY HOUSING CONSTRUCTED OR ACQUIRED USING ALTERNATIVE AUTHORITY FOR ACQUISITION AND IMPROVEMENT OF MILITARY HOUSING.

(a) NONDISCLOSURE AGREEMENTS PROHIBITED.—Section 2882 of title 10, United States Code, is amended by adding at the end the following new subsection:

''(d) PROHIBITION ON USE OF NONDISCLOSURE AGREEMENTS.—(1) A member of the armed forces who leases a housing unit acquired or constructed under this subchapter, and any dependent of the member who is a party to a lease for such a unit or is authorized to act on behalf of the member in the event of the assignment or deployment of the member, may not be required to sign a nondisclosure agreement in connection with entering into, continuing, or terminating the lease. Any such agreement against the interests of the member is invalid.

''(2) Paragraph (1) shall not apply to a nondisclosure agreement executed as part of the settlement of litigation.''.

(b) IMPLEMENTATION.—The Secretary of Defense and the Secretaries of the military departments shall promulgate regulations necessary to give full force and effect to subsection (d) of section 2882 of title 10, United States Code, as added by subsection (a).

(c) RETROACTIVE APPLICATION OF AMENDMENT.—Subsection (d) of section 2882 of title 10, United States Code, as added by subsection (a), shall apply with respect to any nondisclosure agreement covered by the terms of such subsection (d) regardless of the date on which the agreement was executed.

SEC. 2813. AUTHORITY TO FURNISH CERTAIN SERVICES IN CONNECTION WITH USE OF ALTERNATIVE AUTHORITY FOR ACQUISITION AND IMPROVEMENT OF MILITARY HOUSING.

Section 2872a(b) of title 10, United States Code, is amended by adding at the end the following new paragraphs:

"(13) Street sweeping.

"(14) Tree trimming and removal.".

SEC. 2814. MODIFICATION TO REQUIREMENTS FOR WINDOW FALL PREVENTION DEVICES IN MILITARY FAMILY HOUSING UNITS.

(a) FALL PREVENTION DEVICE REQUIREMENTS.—Section 2879(a) of title 10, United States Code, is amended—

(1) in paragraph (1), by striking ''that protect against unintentional window falls by young children and that are in compliance with applicable International Building Code (IBC) standards'' and inserting ''described in paragraph (3)'';

(2) in paragraph (2)—

(A) in subparagraph (A), by striking ''December 11, 2017'' and inserting ''October 1, 2019''; and

(B) in subparagraph (B), by striking ''September 1, 2018'' and inserting ''October 1, 2019''; and

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

''(3) FALL PREVENTION DEVICE DESCRIBED.—A fall prevention device is a window screen or guard that complies with applicable standards in ASTM standard F2090-13 (or any successor standard).''.

(b) MODIFICATION TO WINDOW DESCRIPTION.—Section 2879(c) of title 10, United States Code, is amended by striking ''24'' and inserting ''42''.

(c) CONFORMING AMENDMENT.—Section 2879(b)(1) of title 10, United States Code, is amended by striking ''paragraph (1)'' and inserting ''paragraph (3)''.

SEC. 2815. ASSESSMENT OF HAZARDS IN DEPARTMENT OF DEFENSE HOUSING.

(a) HAZARD ASSESSMENT TOOL.—

(1) DEVELOPMENT REQUIRED.—Not later than 180 days after the date of the enactment of this Act, the Secretary of Defense shall develop an assessment tool, such as a rating system or similar mechanism, to identify and measure health and safety hazards in housing under the jurisdiction of the Department of Defense (including privatized housing).

(2) COMPONENTS.—The assessment tool shall provide for the identification and measurement of the following hazards:

(A) Physiological hazards, including dampness and mold growth, lead-based paint, asbestos and manmade fibers, radiation, biocides, and volatile organic compounds.

(B) Psychological hazards, including ease of access by unlawful intruders, and lighting issues.

(C) Infection hazards.

(D) Safety hazards.

(3) PUBLIC FORUMS.—In developing the assessment tool, the Secretary of Defense shall provide for multiple public forums at which the Secretary may receive input with respect to such assessment tool from occupants of housing under the jurisdiction of the Department of Defense (including privatized housing).

(4) REPORT.—Not later than 210 days after the date of the enactment of this Act, the Secretary of Defense shall submit to the Committees on Armed Services of the Senate and the House of Representatives a report on the assessment tool.

(b) HAZARD ASSESSMENTS.—

(1) ASSESSMENTS REQUIRED.—Not later than one year after the date of the enactment of this Act, the Secretary of Defense, using the assessment tool developed under subsection (a)(1), shall complete a hazard assessment for each housing facility under the jurisdiction of the Department of Defense (including privatized housing).

(2) TENANT INFORMATION.—As soon as practicable after the completion of the hazard assessment conducted for a housing facility under paragraph (1), the Secretary of Defense shall provide to each individual who leases or is assigned to a housing unit in the facility a summary of the results of the assessment.

SEC. 2816. DEVELOPMENT OF PROCESS TO IDENTIFY AND ADDRESS ENVIRONMENTAL HEALTH HAZARDS IN DEPARTMENT OF DEFENSE HOUSING.

(a) PROCESS REQUIRED.—Not later than 180 days after the date of the enactment of this Act, the Secretary of Defense, in coordination with the Secretaries of the military departments, shall develop a process to identify, record, and resolve environmental health hazards in housing under the jurisdiction of the Department of Defense (including privatized housing) in a timely manner.

(b) ELEMENTS OF PROCESS.—The process developed under subsection (a) shall provide for the following with respect to each identified environmental health hazard:

(1) Categorization of the hazard.

(2) Identification of health risks posed by the hazard.

(3) Identification of the number of housing occupants potentially affected by the hazard.

(4) Recording and maintenance of information regarding the hazard.

(5) Resolution of the hazard, which shall include—

(A) the performance by the Secretary of Defense (or in the case of privatized housing, the landlord) of hazard remediation activities at the affected facility; and

(B) follow-up by the Secretary of Defense to collect information on medical care related to the hazard sought or received by individuals affected by the hazard.

(c) COORDINATION.—The Secretary of Defense shall ensure coordination between military treatment facilities, appropriate public health officials, and housing managers at military installations with respect to the development and implementation of the process required by subsection (a).

(d) REPORT.—Not later than 210 days after the date of the enactment of this Act, the Secretary of Defense shall submit to the Committees on Armed Services of the Senate and the House of Representatives a report on the process required by subsection (a).

SEC. 2817. REPORT ON CIVILIAN PERSONNEL SHORTAGES FOR APPROPRIATE OVERSIGHT OF MANAGEMENT OF MILITARY HOUSING CONSTRUCTED OR ACQUIRED USING ALTERNATIVE AUTHORITY FOR ACQUISITION AND IMPROVEMENT OF MILITARY HOUSING.

(a) REPORT REQUIRED.—Not later than six months after the date of the enactment of this Act, the Secretary of Defense, in coordination with the Secretaries of the military departments, shall submit to the congressional defense committees a report containing the following:

(1) An evaluation of the extent to which shortages in the number of civilian personnel performing oversight functions at Department of Defense housing management offices or assigned to housing-related functions at headquarters levels contribute to problems regarding the management of military housing constructed or acquired using the alternative authority for the acquisition and improvement of military housing under subchapter IV of chapter 169 of title 10, United States Code.

(2) Recommendations to address such personnel shortages in order to eliminate management problems regarding such military housing, ensure oversight of the partner's execution of the housing agreement and the delivery of all requirements in accord-

ance with implementing guidance provided by the Secretaries of the military departments, improve oversight of and expedite the work-order process, and facilitate a positive experience for members of the Armed Forces and their dependents who reside in military housing.

(b) PERSONNEL RECOMMENDATIONS.—As part of the recommendations required by subsection (a)(2), the Secretary of Defense shall—

(1) determine the number of additional personnel who are required, the installation and headquarter locations at which they will be employed, the employment positions they will fill, and the duties they will perform;

(2) identify the number of additional personnel already hired as of the date on which the report is submitted and their locations and the timeline for employing the remaining required personnel; and

(3) estimate the cost of employing the additional personnel.

SEC. 2818. INSPECTOR GENERAL REVIEW OF DEPARTMENT OF DEFENSE OVERSIGHT OF PRIVATIZED MILITARY HOUSING.

Not later than one year after the date of the enactment of this Act, and annually thereafter until 2022, the Inspector General of the Department of Defense shall—

(1) conduct a review at not less than 15 randomly selected military installations of the oversight by the Secretary of Defense of privatized military housing at such installations; and

(2) make publicly available on a website of the Department a summary of the results of such review.

SEC. 2819. DEPARTMENT OF DEFENSE INSPECTION AUTHORITY REGARDING PRIVATIZED MILITARY HOUSING.

(a) INSPECTION AUTHORITY.—Section 2885 of title 10, United States Code, is amended by adding at the end the following new subsection:

''(g) POST-CONSTRUCTION ACCESS AND INSPECTION AUTHORITY.—

''(1) REQUIREMENT.—The Secretary concerned shall retain the authority after the completion of a military housing privatization project to access and inspect any military housing unit, ancillary supporting facility, or common area acquired, con-

structed, or renovated as part of the project in order to protect the health and safety of members of the armed forces and their dependents who occupy the privatized military housing units.

"(2) NOTICE AND RIGHT OF REFUSAL OF ACCESS AND INSPECTION.—The Secretary concerned shall ensure that the individuals who lease or are assigned a military housing unit—

"(A) are provided not less than 48 hours notice prior to the Secretary concerned accessing and inspecting the unit as authorized under paragraph (1); and

"(B) have the right to refuse the Secretary concerned such access.".

(b) RETROACTIVE APPLICATION OF AMENDMENT.—Subsection (g) of section 2885 of title 10, United States Code, as added by subsection (a), shall apply to each military housing privatization project completed prior to the date of the enactment of this Act, and to each such project completed on or after such date.

SEC. 2820. IMPROVEMENT OF PRIVATIZED MILITARY HOUSING.

(a) COMPLAINT DATABASE AND FINANCIAL TRANSPARENCY.—

(1) IN GENERAL.—Subchapter IV of chapter 169 of title 10, United States Code, is amended by adding at the end the following new sections:

"§ 2887. Complaint database

''(a) DATABASE REQUIRED.—The Secretary of Defense shall establish a database that is available to the public of complaints relating to housing units under this subchapter.

''(b) FILING OF COMPLAINTS.—The Secretary shall ensure that a tenant of a housing unit under this subchapter may file a complaint relating to such housing unit for inclusion in the database under subsection (a).

''(c) RESPONSE BY LANDLORD.—(1) The Secretary shall include in any contract with a landlord responsible for a housing unit under this subchapter a requirement that the landlord respond to any complaints included in the database under subsection (a) that relate to the housing unit.

''(2) Any response under paragraph (1) shall be included in the database under subsection (a).

"§ 2888. Financial transparency

''(a) AUDITS OF AGREEMENTS WITH PARTNERS.—(1) Not less frequently than annually, the Comptroller General of the United States, in accordance with best audit practices, shall randomly select one small, medium,

and large military installation participating in the Military Privatized Housing Initiative for the purposes of conducting a full financial audit of the privatized housing project or projects at each installation. The results of audits conducted under this section shall be provided to the Secretary of Defense and the Committees on Armed Services of the Senate and the House of Representatives.

''(2) Audits conducted under paragraph (1) shall include an analysis, at a minimum, of the following:

''(A) Base management fees for managing the housing units.

''(B) Incentive fees relating to the housing units, including details on the following:

''(i) Metrics upon which such incentive fees are paid.

''(ii) Whether incentive fees were paid in full or withheld in part or in full during the year covered by the publication, and if so, why.

''(C) Asset management fees relating to the housing units.

''(D) Preferred return fees relating to the housing units.

''(E) Any deferred fees or other fees relating to the housing units.

"(F) Residual cash flow distributions relating to the housing units.

"(G) Provider's financial relationship with and use of subsidiaries and third parties to manage/implement housing agreements.".

(2) CLERICAL AMENDMENT.—The table of sections at the beginning of subchapter IV of chapter 169 of title 10, United States Code, is amended by inserting after the item relating to section 2886 the following new items:

"2887. Complaint database.
"2888. Financial transparency.".

(b) ANNUAL REPORTS ON PRIVATIZED MILITARY HOUSING.—Section 2884 of title 10, United States Code, is amended by adding at the end the following new subsection:

"(d) ANNUAL REPORT ON HOUSING.—(1) Not less frequently than annually, the Secretary of Defense shall submit to the congressional defense committees and publish on a publicly available website of the Department of Defense a report on housing units under this subchapter, disaggregated by military installation.

"(2) Each report submitted under paragraph (1) shall include the following:

"(A) An assessment of the condition of housing units under this subchapter based on the average

age of those units and the estimated time until recapitalization.

''(B) An analysis of complaints of tenants of such housing units.

''(C) An assessment of maintenance response times and completion of maintenance requests relating to such housing units.

''(D) An assessment of dispute resolution relating to such housing units, which must include an analysis of all denied tenant requests to withhold rent payments, or where the dispute resolution process resulted in a favorable outcome for the housing provider.

''(E) An assessment of overall customer service for tenants of such housing units.

''(F) A description of the results of any no-notice housing inspections conducted for such housing units.

''(G) The results of any resident surveys conducted with respect to such housing units.''.

Subtitle C—Real Property and Facilities Administration

SEC. 2831. IMPROVED ENERGY SECURITY FOR MAIN OPERATING BASES IN EUROPE.

(a) PROHIBITION ON USE OF CERTAIN ENERGY SOURCE.—The Secretary of Defense shall ensure that each contract for the acquisition of furnished energy for a covered military installation in Europe does not use natural gas sourced from inside the Russian Federation as a means of generating the furnished energy for the covered military installation.

(b) WAIVER FOR NATIONAL SECURITY INTERESTS.—

(1) WAIVER AUTHORITY; CERTIFICATION.—The Secretary of Defense may waive application of subsection (a) to a specific contract for the acquisition of furnished energy for a covered military installation if the Secretary certifies to the congressional defense committees that—

(A) the waiver of such subsection is necessary to ensure an adequate supply of furnished energy for the covered military installation; and

(B) the Secretary has balanced these national security requirements against the poten-

tial risk associated with reliance upon the Russian Federation for furnished energy.

(2) SUBMISSION OF WAIVER NOTICE.—Not later than 14 days before the execution of any energy contract for which a waiver is granted under paragraph (1), the Secretary of Defense shall submit to the congressional defense committees notice of the waiver. The waiver notice shall include the following:

(A) The rationale for the waiver, including the basis for the certifications required by subparagraphs (A) and (B) of paragraph (1).

(B) An assessment of how the waiver may impact the European energy resiliency strategy.

(C) An explanation of the measures the Department of Defense is taking to mitigate the risk of using Russian Federation furnished energy.

(c) DEFINITIONS.—In this section:

(1) The term ''covered military installation'' means a military installation in Europe identified by the Department of Defense as a main operating base.

(2) The term ''furnished energy'' means energy furnished to a covered military installation in any

form and for any purpose, including heating, cooling, and electricity.

SEC. 2832. ACCESS TO DEPARTMENT OF DEFENSE FACILITIES FOR CREDENTIALED TRANSPORTATION WORKERS.

Section 1050 of the National Defense Authorization Act for Fiscal Year 2017 (Public Law 114–328; 10 U.S.C. 113 note) is amended—

(1) by striking subsection (a) and inserting the following new subsection:

"(a) ACCESS TO FACILITIES FOR CREDENTIALED TRANSPORTATION WORKERS.—The Secretary of Defense, to the extent practicable—

"(1) shall ensure that the Transportation Worker Identification Credential is accepted as a valid credential for unescorted access to a work site at a maritime terminal of the Department of Defense; and

"(2) may provide that the Transportation Worker Identification Credential be accepted as a valid credential for unescorted access to Department of Defense facilities other than those specified in paragraph (1)."; and

(2) in the section heading, by striking "**INSTALLATIONS**" and inserting "**FACILITIES**".

Subtitle D—Land Conveyances

SEC. 2841. LAND CONVEYANCE, HILL AIR FORCE BASE, UTAH.

(a) CONVEYANCE AUTHORIZED.—The Secretary of the Air Force may convey, without consideration, to the State of Utah or a designee of the State of Utah (in this section referred to as the ''State'') all right, title, and interest of the United States in and to a parcel of real property, including improvements thereon, consisting of approximately 35 acres located at Hill Air Force Base (commonly known as the Defense Nontactical Generator and Rail Center), and such real property adjacent to the Center as the parties consider to be appropriate, for the purpose of permitting the State to construct a new interchange for Interstate 15.

(b) CONDITION OF CONVEYANCE.—As a condition on the conveyance authorized by subsection (a), the State shall agree to the following:

(1) That, not later than two years after the date of the conveyance of the property under such subsection, the State, at no cost to the United States, shall—

(A) demolish all improvements, and infrastructure associated with the improvements, in

existence on the property as of the date of the conveyance; and

(B) subject to subsection (c), complete all environmental cleanup and remediation activities as may be required for the planned redevelopment and use of the property.

(2) That, as part of the construction of the new Interstate 15 interchange referred to in subsection (a), the State, at no cost to the United States, shall construct on the property a new gate for Hill Air Force Base in compliance with such construction, security, and other requirements as the Secretary of the Air Force considers to be necessary.

(3) That the State shall coordinate any demolition, cleanup, remediation, design, redevelopment, and construction activities performed pursuant to the conveyance of property under subsection (a) with the Secretary and the Utah Department of Transportation.

(c) ENVIRONMENTAL OBLIGATIONS.—The State shall not have any obligation in relation to any environmental conditions on the property to be conveyed under subsection (a) unless—

(1) the conditions were in existence and known before the date of the conveyance of the property; and

(2) the State agrees to address the conditions under subsection (b)(1)(B).

(d) PAYMENT OF COSTS OF CONVEYANCE.—

(1) PAYMENT REQUIRED.—The Secretary of the Air Force shall require the State to cover costs to be incurred by the Secretary, or to reimburse the Secretary for such costs incurred, to carry out the conveyance under subsection (a), including survey costs, costs for environmental documentation, and other administrative costs related to the conveyance. If amounts collected are in advance of the Secretary incurring actual costs, and the amount collected exceeds the costs actually incurred by the Secretary to carry out the conveyance, the Secretary shall refund the excess amount.

(2) TREATMENT OF AMOUNTS RECEIVED.—Amounts received under paragraph (1) as reimbursement for costs incurred by the Secretary to carry out the conveyance under subsection (a) shall be credited to the fund or account that was used to cover the costs incurred by the Secretary in carrying out the conveyance, or to an appropriate fund or ac-

count currently available to the Secretary for the purposes for which the costs were paid. Amounts so credited shall be merged with amounts in such fund or account and shall be available for the same purposes, and subject to the same conditions and limitations, as amounts in such fund or account.

(e) DESCRIPTION OF PROPERTY.—The exact acreage and legal description of the property to be conveyed under subsection (a) shall be determined by a survey satisfactory to the Secretary of the Air Force.

(f) ADDITIONAL TERMS AND CONDITIONS.—The Secretary of the Air Force may require such additional terms and conditions in connection with the conveyance under subsection (a) as the Secretary considers appropriate to protect the interests of the United States.

SEC. 2842. RELEASE OF CONDITIONS AND REVERSIONARY INTEREST, CAMP JOSEPH T. ROBINSON, ARKANSAS.

(a) RELEASE OF CONDITIONS AND RETAINED INTERESTS.—With respect to a parcel of real property at Camp Joseph T. Robinson, Arkansas, consisting of approximately 141.52 acres and conveyed by the United States to the State of Arkansas pursuant to the Act entitled ''An Act authorizing the transfer of part of Camp Joseph T. Robinson to the State of Arkansas'', approved June 30,

1950 (64 Stat. 311, chapter 429), the Secretary of the Army may release, without consideration, the terms and conditions imposed by the United States and the reversionary interest retained by the United States under section 2 of such Act and the right to reenter and use the property retained by the United States under section 3 of such Act.

(b) CONDITION OF RELEASE.—As a condition of the release of terms and conditions and retained interests under subsection (a) and subject to subsection (c), the State of Arkansas shall agree to convey, without consideration, the parcel of real property described in subsection (a) to the Arkansas Department of Veterans Affairs for the purpose of expanding the Arkansas State Veterans Cemetery in North Little Rock, Arkansas.

(c) NEW REVERSIONARY INTEREST.—The conveyance required by subsection (b) of the real property described in subsection (a) shall include a reversionary interest to protect the interests of the United States. Under the terms of such reversionary interest, if the Secretary of the Army determines at any time that the real property conveyed pursuant to subsection (b) is not being used in accordance with the purpose of the conveyance specified in such subsection, all right, title, and interest in and to the real property, including any improvements thereto,

shall, at the option of the Secretary, revert to and become the property of the United States, and the United States shall have the right of immediate entry onto the real property. A determination by the Secretary under this subsection shall be made on the record after an opportunity for a hearing.

(d) INSTRUMENT OF RELEASE AND DESCRIPTION OF PROPERTY.—The Secretary of the Army may execute and file in the appropriate office a deed of release, amended deed, or other appropriate instrument reflecting the release of terms and conditions and retained interests under subsection (a). The exact acreage and legal description of the property described in this section shall be determined by a survey satisfactory to the Secretary of the Army.

(e) PAYMENT OF ADMINISTRATIVE COSTS.—

(1) PAYMENT REQUIRED.—The Secretary of the Army may require the State of Arkansas to cover costs to be incurred by the Secretary, or to reimburse the Secretary for costs incurred by the Secretary, to carry out the release of terms and conditions and retained interests under subsection (a), including survey costs, costs related to environmental documentation, and other administrative costs related to the release. If amounts paid to the Secretary in advance exceed the costs actually incurred

by the Secretary to carry out the release, the Secretary shall refund the excess amount to the State.

(2) TREATMENT OF AMOUNTS RECEIVED.—Amounts received under subsection (a) as reimbursement for costs incurred by the Secretary to carry out the release of terms and conditions and retained interests under subsection (a) shall be credited to the fund or account that was used to cover the costs incurred by the Secretary in carrying out the release. Amounts so credited shall be merged with amounts in such fund or account and shall be available for the same purposes, and subject to the same conditions and limitations, as amounts in such fund or account.

(f) ADDITIONAL TERMS AND CONDITIONS.—The Secretary of the Army may require such additional terms and conditions in connection with the release of terms and conditions and retained interests under subsection (a) as the Secretary considers appropriate to protect the interests of the United States.

SEC. 2843. MODIFICATION OF AUTHORIZED USES OF CERTAIN PROPERTY CONVEYED BY THE UNITED STATES IN LOS ANGELES, CALIFORNIA.

(a) IN GENERAL.—Section 2 of Public Law 85–236 (71 Stat. 517) is amended in the first sentence by insert-

ing after ''for other military purposes'' the following: ''and for purposes of meeting the needs of the homeless (as that term is defined in section 103 of the McKinney-Vento Homeless Assistance Act (42 U.S.C. 11302))''.

(b) MODIFICATION OF USE.—

(1) APPLICATION.—The State of California shall submit to the Administrator of General Services an application for use of the property conveyed by section 2 of Public Law 85–236 for purposes of meeting the needs of the homeless in accordance with the amendment made by subsection (a).

(2) REVIEW OF APPLICATION.—Not later than 60 days after the date of receipt of an application pursuant to paragraph (1), the Administrator and the Secretary of Health and Human Services shall jointly determine whether the use of the property described in the application is a use for purposes of meeting the needs of the homeless.

(3) MODIFICATION OF INSTRUMENT OF CONVEYANCE.—If the Administrator and the Secretary jointly determine that the use of the property described in the application is for purposes of meeting the needs of the homeless, the Administrator shall execute and record in the appropriate office an instrument of modification of the deed of conveyance

executed pursuant to Public Law 85–236 in order to authorize such use of the property. The instrument shall include such additional terms and conditions as the Administrator considers appropriate to protect the interests of the United States.

(4) COMPATIBILITY WITH MILITARY PURPOSES.—Before executing any instrument of modification of the deed of conveyance, the Administrator and the Secretary shall request a review by the Chief of the National Guard Bureau, in consultation with the Secretary of the Army, to ensure that any modification of the use of the property described in the application is compatible with the training of members of the National Guard and other military purposes.

Subtitle E—Military Land Withdrawals

SEC. 2851. PUBLIC NOTICE REGARDING UPCOMING PERIODS OF SECRETARY OF THE NAVY MANAGEMENT OF SHARED USE AREA OF THE JOHNSON VALLEY OFF-HIGHWAY VEHICLE RECREATION AREA.

(a) PUBLIC NOTICE REQUIRED.—Section 2942(b)(2) of the Military Land Withdrawals Act of 2013 (title XXIX

of Public Law 113–66; 127 Stat. 1036) is amended by adding at the end the following new subparagraph:

"(D) PUBLIC NOTICE.—Not later than one year before the date on which a 30-day period of Secretary of the Navy management of the Shared Use Area will start, the Secretary of the Navy, acting through the Resource Management Group established pursuant to section 2944, shall notify the public of the start date and the intention of the Armed Forces to use the Shared Use Area for military training purposes. The Secretary of the Navy, upon notice to the Secretary of the Interior, may waive such public notice in the event of an emergent military training requirement.".

(b) APPLICATION OF AMENDMENT.—Subparagraph (D) of section 2942(b)(2) of the Military Land Withdrawals Act of 2013 (title XXIX of Public Law 113–66; 127 Stat. 1036), as added by subsection (a), shall apply to periods of Secretary of the Navy management of the Shared Use Area of the Johnson Valley Off-Highway Vehicle Recreation Area under such section that start on or after January 1, 2021.

Subtitle F—White Sands National Park and White Sands Missile Range

SEC. 2861. SHORT TITLE.

This subtitle may be cited as the ''White Sands National Park Establishment Act''.

SEC. 2862. DEFINITIONS.

In this subtitle:

(1) MAP.—The term ''Map'' means the map entitled ''White Sands National Park Proposed Boundary Revision & Transfer of Lands Between National Park Service & Department of the Army'', numbered 142/136,271, and dated February 14, 2017.

(2) MILITARY MUNITIONS.—The term ''military munitions'' has the meaning given the term in section 101(e) of title 10, United States Code.

(3) MISSILE RANGE.—The term ''Missile Range'' means the White Sands Missile Range, New Mexico, administered by the Secretary of the Army.

(4) MONUMENT.—The term ''Monument'' means the White Sands National Monument, New Mexico, established by Presidential Proclamation No. 2025 (54 U.S.C. 320301 note), dated January 18, 1933, and administered by the Secretary of the Interior.

(5) MUNITIONS DEBRIS.—The term ''munitions debris'' has the meaning given the term in volume 8 of the Department of Defense Manual Number 6055.09–M entitled ''DoD Ammunitions and Explosives Safety Standards'' and dated February 29, 2008 (as in effect on the date of enactment of this Act).

(6) NATIONAL PARK.—The term ''National Park'' means the White Sands National Park established by this subtitle.

(7) PUBLIC LAND ORDER.—The term ''Public Land Order'' means Public Land Order 833, dated May 21, 1952 (17 Fed. Reg. 4822).

SEC. 2863. FINDINGS.

Congress finds the following:

(1) White Sands National Monument was established on January 18, 1933, by President Herbert Hoover pursuant to the Antiquities Act of 1906 (now chapter 3203 of title 54, United States Code).

(2) President Hoover proclaimed that the Monument was established ''for the preservation of the white sands and additional features of scenic, scientific, and educational interest''.

(3) The Monument was expanded by Presidents Roosevelt, Eisenhower, Carter, and Clinton in 1934, 1942, 1953, 1978, and 1996, respectively.

(4) The Monument contains a substantially more diverse set of nationally significant historical, archaeological, scientific, and natural resources than were known of at the time the Monument was established, including a number of recent discoveries.

(5) The Monument is recognized as a major unit of the National Park System with extraordinary values enjoyed by more visitors each year since 1995 than any other unit in the State of New Mexico.

(6) The Monument contributes significantly to the local economy by attracting tourists.

(7) Designation of the Monument as a national park would increase public recognition of the diverse array of nationally significant resources at the Monument and visitation to the unit.

SEC. 2864. ESTABLISHMENT OF WHITE SANDS NATIONAL PARK IN THE STATE OF NEW MEXICO.

(a) ESTABLISHMENT.—To protect, preserve, and restore its scenic, scientific, educational, natural, geological, historical, cultural, archaeological, paleontological, hydrological, fish, wildlife, and recreational values and to enhance visitor experiences, there is established the White

Sands National Park as a unit of the National Park System.

(b) ABOLISHMENT OF WHITE SANDS NATIONAL MONUMENT.—

(1) ABOLISHMENT.—Due to the establishment of the National Park, the Monument is abolished.

(2) INCORPORATION.—The land and interests in land that comprise the Monument are incorporated in, and shall be considered to be part of, the National Park.

(c) REFERENCES.—Any reference in a law, map, regulation, document, paper, or other record of the United States to White Sands National Monument shall be considered to be a reference to White Sands National Park.

(d) AVAILABILITY OF FUNDS.—Any funds available for the Monument shall be available for the National Park.

(e) ADMINISTRATION.—The Secretary of the Interior shall administer the National Park in accordance with—

(1) this subtitle; and

(2) the laws generally applicable to units of the National Park System, including section 100101(a), chapter 1003, sections 100751(a), 100752, 100753, and 102101, and chapter 3201 of title 54, United States Code.

(f) EFFECT.—Nothing in this section affects—

(1) valid existing rights (including water rights);

(2) permits or contracts issued by the Monument;

(3) existing agreements, including agreements with the Department of Defense;

(4) the jurisdiction of the Department of Defense regarding the restricted airspace above the National Park; or

(5) the airshed classification of the National Park under the Clean Air Act (42 U.S.C. 7401 et seq.).

SEC. 2865. TRANSFERS OF ADMINISTRATIVE JURISDICTION RELATED TO THE NATIONAL PARK AND WHITE SANDS MISSILE RANGE.

(a) TRANSFER OF ADMINISTRATIVE JURISDICTION TO THE SECRETARY OF THE INTERIOR.—

(1) IN GENERAL.—Administrative jurisdiction over the land described in paragraph (2) is transferred from the Secretary of the Army to the Secretary of the Interior.

(2) DESCRIPTION OF LAND.—The land referred to in paragraph (1) consists of the following:

(A) The approximately 2,826 acres of land identified as ''To NPS, lands inside current boundary'' on the Map.

(B) The approximately 5,766 acres of land identified as ''To NPS, new additions'' on the Map.

(b) TRANSFER OF ADMINISTRATIVE JURISDICTION TO THE SECRETARY OF THE ARMY.—

(1) IN GENERAL.—Administrative jurisdiction over the land described in paragraph (2) is transferred from the Secretary of the Interior to the Secretary of the Army.

(2) DESCRIPTION OF LAND.—The land referred to in paragraph (1) consists of the approximately 3,737 acres of land identified as ''To DOA'' on the Map.

(c) ADMINISTRATION.—

(1) NATIONAL PARK.—The Secretary of the Interior shall administer the land transferred under subsection (a) in accordance with laws (including regulations) applicable to the National Park.

(2) MISSILE RANGE.—Subject to subsection (d), the Secretary of the Army shall administer the land transferred to the Secretary of the Army under subsection (b) as part of the Missile Range.

(d) INFRASTRUCTURE; RESOURCE MANAGEMENT.—

(1) RANGE ROAD 7.—

(A) INFRASTRUCTURE MANAGEMENT.—To the maximum extent practicable, in planning, constructing, and managing infrastructure on the land described in subparagraph (C), the Secretary of the Army shall apply low-impact development techniques and strategies to prevent impacts within the Missile Range and the National Park from stormwater runoff from the land described in that subparagraph.

(B) RESOURCE MANAGEMENT.—The Secretary of the Army shall—

(i) manage the land described in subparagraph (C) in a manner consistent with the protection of natural and cultural resources within the Missile Range and the National Park and in accordance with section 101(a)(1)(B) of the Sikes Act (16 U.S.C. 670a(a)(1)(B)), division A of subtitle III of title 54, United States Code, and the Native American Graves Protection and Repatriation Act (25 U.S.C. 3001 et seq.); and

(ii) include the land described in subparagraph (C) in the integrated natural and cultural resource management plan for the Missile Range.

(C) DESCRIPTION OF LAND.—The land referred to in subparagraphs (A) and (B) is the land that is transferred to the administrative jurisdiction of the Secretary of the Army under subsection (b) and located in the area east of Range Road 7 in—

(i) T. 17 S., R. 5 E., sec. 31;

(ii) T. 18 S., R. 5 E.; and

(iii) T. 19 S., R. 5 E., sec. 5.

(2) FENCE.—

(A) IN GENERAL.—The Secretary of the Army shall continue to allow the Secretary of the Interior to maintain the fence shown on the Map until such time as the Secretary of the Interior determines that the fence is unnecessary for the management of the National Park.

(B) REMOVAL.—If the Secretary of the Interior determines that the fence is unnecessary for the management of the National Park under subparagraph (A), the Secretary of the Interior

shall promptly remove the fence at the expense of the Department of the Interior.

(e) RESEARCH.—The Secretary of the Army and the Secretary of the Interior may enter into an agreement to allow the Secretary of the Interior to conduct certain research in the area identified as ''Cooperative Use Research Area'' on the Map.

(f) MILITARY MUNITIONS AND MUNITIONS DEBRIS.—

(1) RESPONSE ACTION.—With respect to any Federal liability, the Secretary of the Army shall remain responsible for any response action addressing military munitions or munitions debris on the land transferred under subsection (a) to the same extent as on the day before the date of enactment of this Act.

(2) INVESTIGATION OF MILITARY MUNITIONS AND MUNITIONS DEBRIS.—

(A) IN GENERAL.—The Secretary of the Interior may request that the Secretary of the Army conduct one or more investigations of military munitions or munitions debris on any land transferred under subsection (a).

(B) ACCESS.—The Secretary of the Interior shall give access to the Secretary of the

Army to the land covered by a request under subparagraph (A) for the purposes of conducting an investigation under that subparagraph.

(C) LIMITATION.—An investigation conducted under this paragraph shall be subject to available appropriations.

(3) APPLICABLE LAW.—Any activities undertaken under this subsection shall be carried out in accordance with—

(A) the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (42 U.S.C. 9601 et seq.);

(B) the purposes for which the National Park was established; and

(C) any other applicable law.

SEC. 2866. BOUNDARY MODIFICATIONS RELATED TO THE NATIONAL PARK AND MISSILE RANGE.

(a) NATIONAL PARK.—

(1) IN GENERAL.—The boundary of the National Park is revised to reflect the boundary depicted on the Map.

(2) MAP.—

(A) IN GENERAL.—The Secretary of the Interior, in coordination with the Secretary of

the Army, shall prepare and keep on file for public inspection in the appropriate office of the Secretary of the Interior a map and a legal description of the revised boundary of the National Park.

(B) EFFECT.—The map and legal description under subparagraph (A) shall have the same force and effect as if included in this Act, except that the Secretary of the Interior may correct clerical and typographical errors in the map and legal description.

(3) BOUNDARY SURVEY.—As soon as practicable after the date of the establishment of the National Park and subject to the availability of funds, the Secretary of the Interior shall complete an official boundary survey of the National Park.

(b) MISSILE RANGE.—

(1) IN GENERAL.—The boundary of the Missile Range and the Public Land Order are modified to exclude the land transferred to the Secretary of the Interior under subsection (a) of section 2865 and to include the land transferred to the Secretary of the Army under subsection (b) of such section.

(2) MAP.—The Secretary of the Interior shall prepare a map and legal description depicting the revised boundary of the Missile Range.

(c) CONFORMING AMENDMENT.—Section 2854 of the National Defense Authorization Act for Fiscal Year 1997 (Public Law 104–201; 54 U.S.C. 320301 note), relating to the modification of boundaries of the Monument and the Missile Range, is repealed.

Subtitle G—Other Matters

SEC. 2871. INSTALLATION AND MAINTENANCE OF FIRE EXTINGUISHERS IN DEPARTMENT OF DEFENSE FACILITIES.

The Secretary of Defense shall ensure that portable fire extinguishers are installed and maintained in all Department of Defense facilities in accordance with requirements of national model fire codes developed by the National Fire Protection Association and the International Code Council that require redundancy and extinguishers throughout occupancies regardless of the presence of other suppression systems or alarm systems.

SEC. 2872. DEFINITION OF COMMUNITY INFRASTRUCTURE FOR PURPOSES OF MILITARY BASE REUSE STUDIES AND COMMUNITY PLANNING ASSISTANCE.

Paragraph (4) of section 2391(e) of title 10, United States Code, is amended to read as follows:

"(4)(A) The term 'community infrastructure' means a project or facility described in subparagraph (B) that—

"(i) is located off of a military installation; and

"(ii) is—

"(I) owned by a State or local government; or

"(II) a not-for-profit, member owned utility service.

"(B) A project or facility described in this subparagraph is any of the following:

"(i) Any transportation project.

"(ii) A school, hospital, police, fire, emergency response, or other community support facility.

"(iii) A water, waste-water, telecommunications, electric, gas, or other utility infrastructure project.".

SEC. 2873. REPORT ON VULNERABILITIES FROM SEA LEVEL RISE TO CERTAIN MILITARY INSTALLATIONS LOCATED OUTSIDE THE CONTINENTAL UNITED STATES.

(a) REPORT REQUIRED.—Not later than one year after the date of the enactment of this Act, the Secretary of Defense shall submit to the Committees on Armed Services of the Senate and the House of Representatives a report on vulnerabilities from sea level rise to covered installations located outside of the continental United States.

(b) CONTENTS.—For each covered installation, the report required by subsection (a) shall include the following:

(1) An analysis of the impacts to the operations, contingency plans, and readiness of such installation from a sea level rise.

(2) A discussion of mitigation efforts, including dredging, reclaiming land, and island building, that may be necessary due to a sea level rise—

(A) to ensure the continued operational viability of such installation; and

(B) to increase the resiliency of such installation.

(3) The estimated costs of the efforts discussed under paragraph (2).

(4) An identification of alternative locations for the continuance of operations of such installation if such installation is rendered inoperable.

(c) FORM.—The report required under subsection (a) shall be submitted in unclassified form, but may contain a classified annex.

(d) COVERED INSTALLATION DEFINED.—In this section, the term ''covered installation'' means the following military installations:

(1) Naval Support Facility Diego Garcia.

(2) Ronald Reagan Ballistic Missile Defense Test Site.

SEC. 2874. BLACK START EXERCISES AT JOINT BASES.

(a) REQUIREMENT.—Not later than September 30, 2020, the Secretary of Defense shall conduct a black start exercise at three Joint Bases at which such exercise has not previously been conducted, for the purpose of identifying any shortcomings in infrastructure, joint operations, joint coordination, and security that would result from a loss of power at the site.

(b) REPORT.—Not later than June 1, 2020, the Secretary of Defense shall submit to the congressional defense committees a report that contains a discussion of lessons learned from black start exercises conducted by the Secretary of Defense during the period beginning with the

first such exercise and ending on December 31, 2019, including the three most recurring issues identified as a result of such exercises with respect to infrastructure, joint coordination efforts, and security.

(c) BLACK START EXERCISE DEFINED.—In this section, the term ''black start exercise'' means, with respect to a military installation, an exercise in which commercial utility power at the installation is dropped before backup generation assets start, for the purpose of—

(1) testing the ability of the backup systems to start, transfer the load, and carry the load until commercial power is restored;

(2) aligning stakeholders on critical energy requirements to meet mission requirements;

(3) validating mission operation plans, such as continuity of operations plans;

(4) identifying infrastructure interdependencies; and

(5) verifying backup electric power system performance.

TITLE XXIX—OVERSEAS CONTINGENCY OPERATIONS MILITARY CONSTRUCTION

SEC. 2901. AUTHORIZED ARMY CONSTRUCTION AND LAND ACQUISITION PROJECTS.

(a) AUTHORIZATION.—Subject to subsection (b), the Secretary of the Army may acquire real property and carry out the military construction projects for the installations outside the United States, and in the amounts, set forth in the following table:

Army: Outside the United States

Country	Location	Amount
Cuba	Guantanamo Bay Naval Station	$33,800,000
Unspecified Europe	European Deterrence Initiative: Various Locations.	$98,342,000

(b) REPORT REQUIRED AS CONDITION OF AUTHORIZATION.—Not later than 90 days after the date of the enactment of this Act, the Secretary of the Army shall submit to the congressional defense committees a report containing a plan to carry out each military construction project authorized in the final item in the table in subsection (a) for an unspecified location for the European Deterrence Initiative. The plan shall include a Department of Defense Form 1391 for each proposed project. The Secretary may not commence a project until the report has been submitted.

SEC. 2902. AUTHORIZED NAVY CONSTRUCTION AND LAND ACQUISITION PROJECTS.

(a) AUTHORIZATION.—Subject to subsection (b), the Secretary of the Navy may acquire real property and carry out the military construction projects for the installations outside the United States, and in the amounts, set forth in the following table:

Navy: Outside the United States

Country	Location	Amount
Bahrain	SW Asia	$53,360,000
Italy	Sigonella	$77,400,000
Spain	Rota	$69,570,000
Unspecified Europe	European Deterrence Initiative: Various Locations	$56,246,000

(b) REPORT REQUIRED AS CONDITION OF AUTHORIZATION.—Not later than 90 days after the date of the enactment of this Act, the Secretary of the Navy shall submit to the congressional defense committees a report containing a plan to carry out each military construction project authorized in the final item in the table in subsection (a) for an unspecified location for the European Deterrence Initiative. The plan shall include a Department of Defense Form 1391 for each proposed project. The Secretary may not commence a project until the report has been submitted.

SEC. 2903. AUTHORIZED AIR FORCE CONSTRUCTION AND LAND ACQUISITION PROJECTS.

(a) AUTHORIZATION.—Subject to subsection (b), the Secretary of the Air Force may acquire real property and

carry out the military construction projects for the installations outside the United States, and in the amounts, set forth in the following table:

Air Force: Outside the United States

Country	Location	Amount
Iceland	Keflavik	$57,000,000
Jordan	Azraq	$66,000,000
Spain	Moron	$8,500,000
Unspecified Europe	European Deterrence Initiative: Various	$231,246,000

(b) REPORT REQUIRED AS CONDITION OF AUTHORIZATION.—Not later than 90 days after the date of the enactment of this Act, the Secretary of the Air Force shall submit to the congressional defense committees a report containing a plan to carry out each military construction project authorized in the final item in the table in subsection (a) for an unspecified location for the European Deterrence Initiative. The plan shall include a Department of Defense Form 1391 for each proposed project. The Secretary may not commence a project until the report has been submitted.

SEC. 2904. AUTHORIZED DEFENSE AGENCIES CONSTRUCTION AND LAND ACQUISITION PROJECTS.

The Secretary of Defense may acquire real property and carry out the military construction project for the installation outside the United States, and in the amount, set forth in the following table:

Defense Agencies: Outside the United States

Country	Location	Amount
Germany	Germersheim	$46,000,000

SEC. 2905. AUTHORIZATION OF APPROPRIATIONS.

Funds are hereby authorized to be appropriated for fiscal years beginning after September 30, 2019, for the military construction projects outside the United States authorized by this title as specified in the funding table in section 4602.

TITLE XXX—AUTHORIZATION OF EMERGENCY MILITARY CONSTRUCTION

SEC. 3001. AUTHORIZATION OF EMERGENCY NAVY CONSTRUCTION AND LAND ACQUISITION PROJECTS.

Pursuant to section 2802 of title 10, United States Code, the following real property acquisition and military construction projects, including planning and design related to military construction projects, in the following amounts, are authorized:

Navy Authorization

State or Location	Installation or Location	Project	Amount
North Carolina	Camp Lejeune	Various construction	$967,210,000
	Marine Corps Air Station Cherry Point	Various Construction	$175,456,000
Unspecified Worldwide	Unspecified Worldwide Locations	Planning and Design	$68,282,000

SEC. 3002. AUTHORIZATION OF EMERGENCY AIR FORCE CONSTRUCTION AND LAND ACQUISITION PROJECTS.

(a) AIR FORCE AUTHORIZATION.—Subject to subsection (b), pursuant to section 2802 of title 10, United States Code, the following real property acquisition and military construction projects, in the following amounts, are authorized:

Air Force Authorization

State	Installation or Location	Project	Amount
Florida	Tyndall Air Force Base	Various Construction	$735,752,000
Nebraska	Offutt Air Force Base	Various Construction	$300,000,000

(b) REPORT REQUIRED AS CONDITION OF AUTHORIZATION.—Not later than 90 days after the date of the enactment of this Act, the Secretary of the Air Force shall submit to the Committees on Armed Services of the House of Representatives and the Senate a report containing a plan to carry out the military construction projects authorized by this section. The plan shall include an explanation of how each military construction project will incorporate mitigation measures that reduce the threat from extreme weather events, mean sea level fluctuation, flooding, and any other known environmental threat to resilience, including a list of any areas in which there is a variance from the local building requirements and an explanation

of the reason for the variance. The plan shall also include a Department of Defense Form 1391 for each proposed project. The Secretary may not commence a project until the report required from the Secretary has been submitted.

SEC. 3003. AUTHORIZATION OF EMERGENCY ARMY NATIONAL GUARD AND ARMY RESERVE CONSTRUCTION AND LAND ACQUISITION PROJECTS.

(a) ARMY NATIONAL GUARD AUTHORIZATION.—Pursuant to section 2802 of title 10, United States Code, the following real property acquisition and military construction projects, in the following amounts, are authorized:

Army National Guard Authorization

State	Installation or Location	Project	Amount
Florida	Panama City	National Guard Readiness Center	$25,000,000
North Carolina	Military Training Area Fort Fisher	General Purpose Administrative Building	$25,000,000

(b) ARMY RESERVE AUTHORIZATION.—Pursuant to section 2805 of title 10, United States Code, unspecified minor construction, in the amount set forth in the following table, is authorized:

Army Reserve Authorization

Country	Installation or Location	Project	Amount
Unspecified Worldwide	Unspecified Worldwide Locations	Unspecified Minor Construction	$3,300,000

DIVISION C—DEPARTMENT OF ENERGY NATIONAL SECURITY AUTHORIZATIONS AND OTHER AUTHORIZATIONS

TITLE XXXI—DEPARTMENT OF ENERGY NATIONAL SECURITY PROGRAMS

Subtitle A—National Security Programs and Authorizations

SEC. 3101. NATIONAL NUCLEAR SECURITY ADMINISTRATION.

(a) AUTHORIZATION OF APPROPRIATIONS.—Funds are hereby authorized to be appropriated to the Department of Energy for fiscal year 2020 for the activities of the National Nuclear Security Administration in carrying out programs as specified in the funding table in section 4701.

(b) AUTHORIZATION OF NEW PLANT PROJECTS.—From funds referred to in subsection (a) that are available for carrying out plant projects, the Secretary of Energy

may carry out new plant projects for the National Nuclear Security Administration as follows:

Project 15–D–301, High Explosive Science and Engineering Facility, Pantex Plant, Amarillo, Texas, $123,000,000.

Project 15–D–611, Emergency Operations Center, Sandia National Laboratories, Albuquerque, New Mexico, $4,000,000.

Project 15–D–612, Emergency Operations Center, Lawrence Livermore National Laboratory, Livermore, California, $5,000,000.

Project 18–D–150, Surplus Plutonium Disposition, Savannah River Site, Aiken, South Carolina, $79,000,000.

Project 18–D–650, Tritium Finishing Facility, Savannah River Site, Aiken, South Carolina, $27,000,000.

Project 19–D–670, 138k Power Transmission System Replacement, Nevada National Security Site, Mercury, Nevada, $6,000,000.

Project 20–D–931, KL Fuel Development Laboratory, Knolls Atomic Power Laboratory, Schenectady, New York, $23,700,000.

SEC. 3102. DEFENSE ENVIRONMENTAL CLEANUP.

Funds are hereby authorized to be appropriated to the Department of Energy for fiscal year 2020 for defense environmental cleanup activities in carrying out programs as specified in the funding table in section 4701.

SEC. 3103. OTHER DEFENSE ACTIVITIES.

Funds are hereby authorized to be appropriated to the Department of Energy for fiscal year 2020 for other defense activities in carrying out programs as specified in the funding table in section 4701.

SEC. 3104. NUCLEAR ENERGY.

Funds are hereby authorized to be appropriated to the Department of Energy for fiscal year 2020 for nuclear energy as specified in the funding table in section 4701.

Subtitle B—Program Authorizations, Restrictions, Limitations, and Other Matters

SEC. 3111. PERSONNEL LEVELS OF THE OFFICE OF THE ADMINISTRATOR FOR NUCLEAR SECURITY.

(a) PERSONNEL LEVELS.—

(1) INCREASE.—Subsection (a) of section 3241A of the National Nuclear Security Administration Act (50 U.S.C. 2441a) is amended by striking ''1,690'' both places it appears and inserting ''1,890''.

(2) TECHNICAL AMENDMENTS.—Such subsection is further amended—

(A) in paragraph (1), by striking ''By October 1, 2015, the'' and inserting ''The''; and

(B) in paragraph (2), by striking ''2016'' and inserting ''2020''.

(b) REPORTS ON SERVICE SUPPORT CONTRACTS.—Subsection (f) of such section is amended—

(1) in the matter preceding paragraph (1), by striking ''as of the date of the report'' and inserting ''for the most recent fiscal year for which data is available''; and

(2) by striking paragraph (5) and inserting the following new paragraphs:

''(5) With respect to each contract identified under paragraph (2)—

''(A) identification of each appropriations account that supports the contract; and

''(B) the amount obligated under the contract during the fiscal year, listed by each such account.

''(6) With respect to each appropriations account identified under paragraph (5)(A), the total amount obligated for contracts identified under paragraph (2).''.

SEC. 3112. OFFICE OF COST ESTIMATING AND PROGRAM EVALUATION.

(a) SENSE OF CONGRESS.—It is the sense of Congress that Congress is concerned that the staffing levels of the Office of Cost Estimating and Program Evaluation of the National Nuclear Security Administration have been persistently below the authorized level.

(b) REPORTING.—Section 3221(b)(1) of the National Nuclear Security Administration Act (50 U.S.C. 2411(b)(1)) is amended by adding at the end the following new sentence: ''The Director shall report directly to the Administrator.''.

(c) BRIEFING.—Not later than 180 days after the date of the enactment of this Act, the Administrator for Nuclear Security shall provide to the congressional defense committees a briefing on the plan of the Administrator to fully staff the Office of Cost Estimating and Program Evaluation of the National Nuclear Security Administration pursuant to section 3221(f) of the National Nuclear Security Administration Act (50 U.S.C. 2411(f)).

SEC. 3113. CLARIFICATION OF CERTAIN STOCKPILE RESPONSIVENESS PROGRAM OBJECTIVES.

Section 4220(c) of the Atomic Energy Defense Act (50 U.S.C. 2538b(c)) is amended—

(1) in paragraph (3), by striking ''capabilities required, including prototypes'' and inserting ''capa-

bilities as required, such as through the use of prototypes''; and

(2) in paragraph (6)—

(A) by striking ''in consultation with the Director of National Intelligence'' and inserting ''in coordination with the Director of National Intelligence''; and

(B) by inserting ''if needed to meet intelligence requirements'' after ''foreign countries''.

SEC. 3114. MODIFICATION TO PLUTONIUM PIT PRODUCTION CAPACITY.

(a) FINDING AND SENSE OF CONGRESS.—

(1) FINDING.—Congress finds that a recent study by the Institute of Defense Analyses notes, ''a key milestone will be achieving the Plutonium Sustainment Program goal of 30 pits per year at Los Alamos National Laboratory''.

(2) SENSE OF CONGRESS.—It is the sense of Congress that the National Nuclear Security Administration should prioritize achieving production of 30 pits per year at Los Alamos National Laboratory and ensure that efforts to design and construct a second site do not divert resources, including personnel and funding, from Los Alamos National Laboratory.

(b) 2027 REQUIREMENT.—Section 4219 of the Atomic Energy Defense Act (50 U.S.C. 2538a) is amended—

(1) in subsection (a)—

(A) in paragraph (3), by inserting ''and'' after the semicolon;

(B) in paragraph (4), by striking ''; and'' and inserting a period; and

(C) by striking paragraph (5);

(2) by striking subsection (b); and

(3) by redesignating subsections (c) and (d) as subsections (b) and (c), respectively.

(c) CONFORMING AMENDMENT.—Subsection (b) of such section, as redesignated by subsection (b), is amended by striking ''(or, if the authority under subsection (b) is exercised, 2029)''.

SEC. 3115. ANNUAL CERTIFICATION OF SHIPMENTS TO WASTE ISOLATION PILOT PLANT.

Section 3115(a) of the National Defense Authorization Act for Fiscal Year 2017 (Public Law 114–328; 130 Stat. 2759), as amended by section 3137 of the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Public Law 115–232; 132 Stat. 2303), is further amended, in the matter preceding paragraph (1), by

striking ''three-year period'' and inserting ''10-year period''.

SEC. 3116. REPEAL OF LIMITATION ON AVAILABILITY OF FUNDS FOR ACCELERATION OF NUCLEAR WEAPONS DISMANTLEMENT.

Section 3125 of the National Defense Authorization Act for Fiscal Year 2017 (Public Law 114–328; 130 Stat. 2766) is repealed.

SEC. 3117. ELIMINATION OF LIMITATION ON AVAILABILITY OF FUNDS RELATING TO SUBMISSION OF ANNUAL REPORTS ON UNFUNDED PRIORITIES.

Section 4716 of the Atomic Energy Defense Act (50 U.S.C. 2756) is amended—

(1) by striking subsection (c); and

(2) by redesignating subsection (d) as subsection (c).

SEC. 3118. PROGRAM FOR RESEARCH AND DEVELOPMENT OF ADVANCED NAVAL NUCLEAR FUEL SYSTEM BASED ON LOW-ENRICHED URANIUM.

(a) ESTABLISHMENT.—Not later than 60 days after the date of the enactment of this Act, the Administrator for Nuclear Security shall establish a program to assess the viability of using low-enriched uranium in naval nuclear propulsion reactors, including such reactors located

on aircraft carriers and submarines, that meet the requirements of the Navy.

(b) ACTIVITIES.—In carrying out the program under subsection (a), the Administrator shall carry out activities to develop an advanced naval nuclear fuel system based on low-enriched uranium, including activities relating to—

(1) down-blending of high-enriched uranium into low-enriched uranium;

(2) manufacturing of candidate advanced low-enriched uranium fuels;

(3) irradiation tests and post-irradiation examination of these fuels; and

(4) modification or procurement of equipment and infrastructure relating to such activities.

(c) REPORT.—Not later than 120 days after the date of the enactment of this Act, the Administrator shall submit to the congressional defense committees a plan outlining the activities the Administrator will carry out under the program established under subsection (a), including the funding requirements associated with developing a low-enriched uranium fuel.

SEC. 3119. REPLACEMENT OF W78 WARHEAD.

(a) ANALYSIS OF ALTERNATIVES.—

(1) IN GENERAL.—The Administrator for Nuclear Security shall conduct an analysis of alter-

natives with respect to replacing the W78 warhead. Such analysis shall describe the technical risks and costs for each option to replace the W78 warhead.

(2) REVIEW.—The Director for Cost Estimating and Program Evaluation of the National Nuclear Security Administration shall review the analysis of alternatives under paragraph (1).

(3) REPORT.—Not later than 150 days after the date of the enactment of this Act, the Administrator shall submit to the congressional defense committees a report on the replacement of the W78 warhead. Such report shall include the analysis of alternatives under paragraph (1) and the review under paragraph (2).

(b) LIMITATION.—Of the funds authorized to be appropriated by this Act or otherwise made available for fiscal year 2020 for the National Nuclear Security Administration for the modernization of the W78 warhead, not more than 75 percent may be obligated or expended until the date on which the report is submitted under subsection (a)(3).

(c) INDEPENDENT STUDY.—

(1) IN GENERAL.—The Administrator shall seek to enter into an arrangement with the private scientific advisory group known as JASON to con-

duct a study of the plan of the Administrator to replace the W78 warhead. Such study shall include—

(A) an assessment of the risks to certification; and

(B) the need for planned upgrades to such warhead.

(2) SUBMISSION.—Not later than 150 days after the date of the enactment of this Act, the Administrator shall submit to the congressional defense committees the study under paragraph (1), without change.

SEC. 3120. NATIONAL LABORATORY JOBS ACCESS PROGRAM.

(a) IN GENERAL.—Not later than 180 days after the date of enactment of this Act, the Secretary may establish a program known as the ''Department of Energy National Lab Jobs ACCESS Program'', under which the Secretary may award, on a competitive basis, 5-year grants to eligible entities described in subsection (c) for the Federal share of the costs of technical, skills-based preapprenticeship and apprenticeship programs that provide employer-driven or recognized postsecondary credentials during the grant period.

(b) REQUIREMENTS.—A program funded by a grant awarded under this section shall develop and deliver customized and competency-based training that—

(1) leads to recognized postsecondary credentials for secondary school and postsecondary students;

(2) is focused on skills and qualifications needed, as determined by the Department of Energy in consultation with the national laboratories, to meet the immediate and on-going needs of traditional and emerging technician positions (including machinists and cyber security technicians) at the National Laboratories and covered facilities of the National Nuclear Security Administration;

(3) creates an apprenticeship or preapprenticeship program in consultation with a National Laboratory or covered facility of the National Nuclear Security Administration; and

(4) creates an apprenticeship or preapprenticeship program registered with and approved by the Secretary of Labor or a State Apprenticeship Agency.

(c) ELIGIBLE ENTITIES.—An entity that is eligible to receive a grant under this section shall be a workforce

intermediary or an eligible sponsor of a preapprenticeship or an apprenticeship program that—

(1) demonstrates experience in implementing and providing career planning and career pathways towards apprenticeship or preapprenticeship programs;

(2)(A) has a relationship with a National Laboratory or covered facility of the National Nuclear Security Administration;

(B) has knowledge of technician workforce needs of such laboratory or facility and the associated security requirements of such laboratory or facility; and

(C) is eligible to enter into an agreement with such laboratory or facility that would be paid for in part or entirely from grant funds received under this section;

(3) demonstrates the ability to recruit and support individuals who plan to work in relevant technician positions upon the successful completion of such programs;

(4) provides students who complete such programs with a recognized postsecondary credential, such as a journeyman craft license or an industry-recognized certification;

(5) uses a customized training curriculum that is specifically aligned with employers, utilizing workplace learning advisors and on-the-job training to the greatest extent possible; and

(6) demonstrates successful outcomes connecting graduates of such programs to careers relevant to such programs.

(d) APPLICATIONS.—An eligible entity seeking a grant under this section shall submit to the Secretary an application at such time, in such manner, and containing such information as the Secretary may require.

(e) PRIORITY.—In selecting eligible entities to receive grants under this section, the Secretary shall prioritize an eligible entity that—

(1) is a member of an industry or sector partnership;

(2) provides the training described in subsection (b)—

(A) at an institution of higher education (such as a community college) that includes basic science, technology, and mathematics education in the curriculum;

(B) through an apprenticeship program that was registered with the Department of Labor or a State Apprenticeship Agency before

the date on which the eligible entity applies for the grant under subsection (d); or

(C) with respect to a preapprenticeship program, at a local educational agency, a secondary school, a provider of adult education, an area career and technical education school, or an appropriate community facility;

(3) works with the Secretary of Defense, Secretary of Veteran Affairs, or veterans organizations to transition members of the Armed Forces and veterans to apprenticeship or preapprenticeship programs in a relevant sector;

(4) plans to use the grant to carry out the training described in subsection (b) with an entity that receives State funding or is operated by a State agency; and

(5) plans to use the grant to carry out the training described in subsection (b) for—

(A) young adults ages 16 to 29, inclusive; or

(B) individuals with barriers to employment.

(f) ADDITIONAL CONSIDERATION.—In making grants under this section, the Secretary shall consider regional diversity.

(g) LIMITATION ON APPLICATIONS.—An eligible entity may not submit, either individually or as part of a joint application, more than 1 application for a grant under this section during any 1 fiscal year.

(h) LIMITATIONS ON AMOUNT OF GRANT.—The amount of a grant provided under this section for any 24-month period of the 5-year grant period shall not exceed $500,000.

(i) NON-FEDERAL SHARE.—The non-Federal share of the cost of a customized training program carried out using a grant under this section shall be not less than 25 percent of the total cost of the program.

(j) TECHNICAL ASSISTANCE.—The Secretary may provide technical assistance to eligible entities described in subsection (c) to leverage the existing job training and education programs of the Department of Labor and other relevant programs at appropriate Federal agencies.

(k) REPORT.—

(1) IN GENERAL.—Not less than once every 2 years, the Secretary of Labor shall submit to Congress, and make publicly available on the website of the Department of Labor, a report on the program established under this section, including—

(A) a description of—

(i) any entity that receives a grant under this section;

(ii) any activity carried out using the grants under this section; and

(iii) best practices used to leverage the investment of the Federal Government under this section; and

(B) an assessment of the results achieved by the program established under this section, including the rate of employment for participants after completing a job training and education program carried out using a grant under this section.

(2) PROVISION OF INFORMATION.—The Secretary of Energy shall provide such information as necessary to the Secretary of Labor for purposes of the report under paragraph (1).

(3) PERFORMANCE REPORTS.—Not later than one year after the start of a new apprenticeship or preapprenticeship program established under this section, and annually thereafter, the entity carrying out the programs shall submit to the Secretary of Labor a report on the effectiveness of the program based on the accountability measures described in clauses (i) and (ii) of section 116(b)(2)(A) of the

Workforce Innovation and Opportunity Act (29 U.S.C. 3141(b)(2)(A)).

(l) DEFINITIONS.—In this section:

(1) ESEA TERMS.—The terms ''local educational agency'' and ''secondary school'' have the meanings given the terms in section 8101 of the Elementary and Secondary Education Act of 1965 (20 U.S.C. 7801).

(2) WIOA TERMS.—The terms ''career planning'', ''community-based organization'', ''customized training'', ''economic development agency'', ''individual with a barrier to employment'', ''industry or sector partnership'', ''on-the-job training'', ''recognized postsecondary credential'', and ''workplace learning advisor'' have the meanings given such terms in section 3 of the Workforce Innovation and Opportunity Act (29 U.S.C. 3102).

(3) APPRENTICESHIP.—The term ''apprenticeship'' means an apprenticeship registered under the Act of August 16, 1937 (commonly known as the ''National Apprenticeship Act''; 50 Stat. 664, chapter 663; 29 U.S.C. 50 et seq.).

(4) AREA CAREER AND TECHNICAL EDUCATION SCHOOL.—The term ''area career and technical education school'' has the meaning given the term in

section 3 of the Carl D. Perkins Career and Technical Education Act of 2006 (20 U.S.C. 2302).

(5) COMMUNITY COLLEGE.—The term ''community college'' has the meaning given the term ''junior or community college'' in section 312(f) of the Higher Education Act of 1965 (20 U.S.C. 1058(f)).

(6) COVERED FACILITY OF THE NATIONAL NUCLEAR SECURITY ADMINISTRATION.—The term ''covered facility of the National Nuclear Security Administration'' means a national security laboratory or a nuclear weapons production facility as such terms are defined in section 4002 of the Atomic Energy Defense Act (50 U.S.C. 2501).

(7) ELIGIBLE SPONSOR.—The term ''eligible sponsor'' means a public organization or an organization described in section 501(c) of the Internal Revenue Code of 1986 and exempt from tax under section 501(a) of that Code, that—

(A) with respect to an apprenticeship program, administers such program through a partnership that may include—

(i) an industry or sector partnership;

(ii) an employer or industry association;

(iii) a labor-management organization;

(iv) a local workforce development board or State workforce development board;

(v) a 2- or 4-year institution of higher education that offers an educational program leading to an associate's or bachelor's degree in conjunction with a certificate of completion of apprenticeship;

(vi) the Armed Forces (including the National Guard and Reserves);

(vii) a community-based organization; or

(viii) an economic development agency; and

(B) with respect to a preapprenticeship program, is a local educational agency, a secondary school, an area career and technical education school, a provider of adult education, a State workforce development board, a local workforce development board, or a community-based organization, that administers such program with any required coordination and necessary approvals from the Secretary of Labor or a State department of labor.

(8) INSTITUTION OF HIGHER EDUCATION.—The term ''institution of higher education'' has the meaning given the term in section 101 of the Higher Education Act of 1965 (20 U.S.C. 1001).

(9) LOCAL WORKFORCE DEVELOPMENT BOARD.—The term ''local workforce development board'' has the meaning given the term ''local board'' in section 3 of the Workforce Innovation and Opportunity Act (29 U.S.C. 3102).

(10) NATIONAL LABORATORY.—The term ''National Laboratory'' has the meaning given the term in section 2 of the Energy Policy Act of 2005 (42 U.S.C. 15801).

(11) PROVIDER OF ADULT EDUCATION.—The term ''provider of adult education'' has the meaning given that term in section 203 of the Adult Education and Literacy Act (29 U.S.C. 3272).

(12) RELATED INSTRUCTION.—The term ''related instruction'' means an organized and systematic form of instruction designed to provide an apprentice with the knowledge of the technical subjects related to the occupation of the apprentice.

(13) SECRETARY.—The term ''Secretary'' means the Secretary of Energy, in consultation with

the Secretary of Labor, except as otherwise specified in this Act.

(14) STATE WORKFORCE DEVELOPMENT BOARD.—The term ''State workforce development board'' has the meaning given the term ''State board'' in section 3 of the Workforce Innovation and Opportunity Act (29 U.S.C. 3102).

(15) WORKFORCE INTERMEDIARY.—The term ''workforce intermediary''—

(A) means an organization that proactively addresses workforce needs using a dual customer approach, which considers the needs of both employees and employers; and

(B) may include a community organization, an employer organization, a community college, a temporary staffing agency, a State workforce development board, a local workforce development board, or a labor organization.

TITLE XXXII—DEFENSE NUCLEAR FACILITIES SAFETY BOARD

SEC. 3201. AUTHORIZATION.

There are authorized to be appropriated for fiscal year 2020, $29,450,000 for the operation of the Defense

Nuclear Facilities Safety Board under chapter 21 of the Atomic Energy Act of 1954 (42 U.S.C. 2286 et seq.).

SEC. 3202. IMPROVEMENTS TO DEFENSE NUCLEAR FACILITIES SAFETY BOARD.

(a) STAFF.—

(1) SENSE OF CONGRESS.—It is the sense of Congress that the Defense Nuclear Facilities Safety Board is not adequately staffed, particularly given the ongoing increase in defense nuclear activities during the decade following the date of the enactment of this Act.

(2) EXECUTIVE DIRECTOR OF OPERATIONS.—

(A) ESTABLISHMENT OF POSITION.—Subsection (b) of section 313 of the Atomic Energy Act of 1954 (42 U.S.C. 2286b) is amended by adding at the end the following new paragraph:

''(3)(A) The Board shall have an Executive Director of Operations who shall be appointed under section 311(c)(7).

''(B) The Executive Director of Operations shall report to the Chairman.

''(C) The Executive Director of Operations shall be the senior employee of the Board responsible for—

''(i) general administration and technical matters;

"(ii) ensuring that the members of the Board are fully and currently informed with respect to matters for which the members are responsible; and

"(iii) the functions delegated by the Chairman pursuant to section 311(c)(3)(B).".

(B) DELEGATION OF FUNCTIONS.—Paragraph (3) of section 311(c) of such Act (42 U.S.C. 2286(c)) is amended—

(i) by striking "The Chairman" and inserting "(A) The Chairman"; and

(ii) by adding at the end the following new subparagraph:

"(B) In carrying out subparagraph (A), the Chairman shall delegate to the Executive Director of Operations established under section 313(b)(3) the following functions:

"(i) Administrative functions of the Board.

"(ii) Appointment and supervision of employees of the Board not specified under paragraph (7).

"(iii) Distribution of business among the employees and administrative units and offices of the Board.

"(iv) Preparation of—

"(I) proposals for the reorganization of the administrative units or offices of the Board;

"(II) the budget estimate for the Board; and

"(III) the proposed distribution of funds according to purposes approved by the Board.".

(3) APPOINTMENT AND REMOVAL POWERS.—Paragraph (7) of such section 311(c) is amended to read as follows:

"(7)(A) The Chairman, subject to the approval of the Board, shall appoint the senior employees described in subparagraph (C). Any member of the Board may propose to the Chairman an individual to be so appointed.

"(B) The Chairman, subject to the approval of the Board, may remove a senior employee described in subparagraph (C). Any member of the Board may propose to the Chairman an individual to be so removed.

"(C) The senior employees described in this subparagraph are the following senior employees of the Board:

"(i) The Executive Director of Operations established under section 313(b)(3).

"(ii) The general counsel.".

(4) FULL-TIME EQUIVALENT PERSONNEL LEVELS.—Section 313(b)(1)(A) of such Act (42 U.S.C. 2286b(b)(1)(A)) is amended by striking "but not" and all that follows through the semicolon and inserting "but not fewer than the equivalent of 110

full-time employees and not more than the equivalent of 130 full-time employees;''.

(b) PUBLIC HEALTH AND SAFETY.—Section 312(a) of such Act (42 U.S.C. 2286a(a)) is amended by inserting before the period at the end the following: '', including with respect to the health and safety of employees and contractors at such facilities''.

(c) ACCESS TO FACILITIES, PERSONNEL, AND INFORMATION.—Section 314 of such Act (42 U.S.C. 2286c) is amended—

(1) in subsection (a)—

(A) by striking ''The Secretary of Energy'' and inserting ''Except as specifically provided by this section, the Secretary of Energy'';

(B) by striking ''ready access'' both places it appears and inserting ''prompt and unfettered access''; and

(C) by adding at the end the following new sentence: ''The access provided to facilities, personnel, and information under this subsection shall be provided without regard to the hazard or risk category assigned to a facility by the Secretary.''; and

(2) by striking subsection (b) and inserting the following new subsections:

"(b) AUTHORITY OF SECRETARY DENY INFORMATION.—The Secretary may only deny access to information pursuant to subsection (a)—

"(1) to any person who—

"(A) has not been granted an appropriate security clearance or access authorization by the Secretary; or

"(B) does not need such access in connection with the duties of such person; or

"(2) if such denial is authorized by a provision of Federal law that specifically limits the right of the Board to access such information.

"(c) APPLICATION OF NONDISCLOSURE PROTECTIONS BY BOARD.—The Board may not publicly disclose information provided under this section if such information is otherwise protected from disclosure by law, including deliberative process information.".

TITLE XXXIV—NAVAL PETROLEUM RESERVES

SEC. 3401. AUTHORIZATION OF APPROPRIATIONS.

(a) AMOUNT.—There are hereby authorized to be appropriated to the Secretary of Energy $14,000,000 for fiscal year 2020 for the purpose of carrying out activities under chapter 869 of title 10, United States Code, relating to the naval petroleum reserves.

(b) PERIOD OF AVAILABILITY.—Funds appropriated pursuant to the authorization of appropriations in subsection (a) shall remain available until expended.

TITLE XXXV—MARITIME MATTERS

Subtitle A—Maritime Administration

SEC. 3501. AUTHORIZATION OF THE MARITIME ADMINISTRATION.

There are authorized to be appropriated to the Department of Transportation for fiscal year 2020, to be available without fiscal year limitation if so provided in appropriations Acts, for programs associated with maintaining the United States merchant marine, the following amounts:

(1) For expenses necessary for operations of the United States Merchant Marine Academy, $81,944,000, of which—

(A) $77,944,000 shall be for Academy operations; and

(B) $4,000,000 shall remain available until expended for capital asset management at the Academy.

(2) For expenses necessary to support the State maritime academies, $38,480,000, of which—

(A) $2,400,000 shall remain available until September 30, 2020, for the Student Incentive Program;

(B) $30,080,000 shall remain available until expended for maintenance and repair of State maritime academy training vessels; and

(C) $6,000,000 shall remain available until expended for direct payments to such academies.

(3) For expenses necessary to support the National Security Multi-Mission Vessel Program, $300,000,000, which shall remain available until expended.

(4) For expenses necessary to support Maritime Administration operations and programs, $53,273,000.

(5) For expenses necessary to dispose of vessels in the National Defense Reserve Fleet, $5,000,000, which shall remain available until expended.

(6) For expenses necessary to maintain and preserve a United States flag merchant marine to serve the national security needs of the United States under chapter 531 of title 46, United States Code, $300,000,000.

(7) For expenses necessary for the loan guarantee program authorized under chapter 537 of title 46, United States Code, $33,000,000, of which—

(A) $30,000,000 may be used for the cost (as defined in section 502(5) of the Federal Credit Reform Act of 1990 (2 U.S.C. 661a(5))) of loan guarantees under the program; and

(B) $3,000,000 may be used for administrative expenses relating to loan guarantee commitments under the program.

(8) For expenses necessary to provide small shipyards and maritime communities grants under section 54101 of title 46, United States Code, $35,000,000.

SEC. 3502. REAUTHORIZATION OF MARITIME SECURITY PROGRAM.

(a) AWARD OF OPERATING AGREEMENTS.—Section 53103 of title 46, United States Code, is amended by striking ''2025'' each place it appears and inserting ''2035''.

(b) EFFECTIVENESS OF OPERATING AGREEMENTS.—Section 53104(a) of title 46, United States Code, is amended by striking ''2025'' and inserting ''2035''.

(c) PAYMENTS.—Section 53106(a)(1) of title 46, United States Code, is amended—

(1) in subparagraph (B), by striking ''and'';

(2) in subparagraph (C), by striking ''$3,700,000 for each of fiscal years 2022, 2023, 2024, and 2025.'' and inserting ''$5,300,000 for each of fiscal years 2022, 2023, 2024, and 2025; and''; and

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

''(D) $5,800,000 for each of fiscal years 2026, 2027, and 2028;

''(E) $6,300,000 for each of fiscal years 2029, 2030, and 2031; and

''(F) $6,800,000 for each of fiscal years 2032, 2033, 2034, and 2035.''.

(d) AUTHORIZATION OF APPROPRIATIONS.—Section 53111 of title 46, United States Code, is amended—

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

(2) in paragraph (3), by striking ''$222,000,000 for each fiscal year thereafter through fiscal year 2025.'' and inserting ''$318,000,000 for each of fiscal years 2022, 2023, 2024, and 2025;''; and

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

''(4) $348,000,000 for each of fiscal years 2026, 2027, and 2028;

''(5) $378,000,000 for each of fiscal years 2029, 2030, and 2031; and

''(6) $408,000,000 for each of fiscal years 2032, 2033, 2034, and 2035.''.

SEC. 3503. MARITIME OCCUPATIONAL SAFETY AND HEALTH ADVISORY COMMITTEE.

Section 7 of the Occupational Safety and Health Act of 1970 (29 U.S.C. 656) is amended by adding at the end the following:

''(d) There is established a Maritime Occupational Safety and Health Advisory Committee, which shall be a continuing body and shall provide advice to the Secretary in formulating maritime industry standards and regarding matters pertaining to the administration of this Act related to the maritime industry. The composition of such advisory committee shall be consistent with the advisory committees established under subsection (b). A member of the advisory committee who is otherwise qualified may continue to serve until a successor is appointed. The Secretary may promulgate or amend regulations as necessary to implement this subsection.''.

Subtitle B—Tanker Security Fleet

SEC. 3511. TANKER SECURITY FLEET.

(a) IN GENERAL.—Subtitle VII of title 46, United States Code, is amended by adding at the end the following:

"CHAPTER 707—TANKER SECURITY FLEET

"70701. Definitions.
"70702. Establishment of the Tanker Security Fleet.
"70703. Vessel standards.
"70704. Award of operating agreements.
"70705. Effectiveness of operating agreements.
"70706. Obligations and rights under operating agreements.
"70707. Payments.
"70708. National security requirements.
"70709. Regulatory relief.
"70710. Special rule regarding age of participating Fleet vessels.
"70711. Regulations.
"70712. Authorization of appropriations.
"70713. Acquisition of Fleet vessels.

"§ 70701. Definitions

"In this chapter:

"(1) FOREIGN COMMERCE.—The term 'foreign commerce' means—

"(A) commerce or trade between the United States, its territories or possessions, or the District of Columbia, and a foreign country; and

"(B) commerce or trade between foreign countries including trade between foreign ports in accordance with normal commercial bulk shipping practices in such a manner as will permit vessels of the United States freely to com-

pete with foreign-flag liquid bulk carrying vessels in their operation or in competing charters, subject to rules and regulations promulgated by the Secretary of Transportation pursuant to this chapter or subtitle.

''(2) PARTICIPATING FLEET VESSEL.—The term 'participating Fleet vessel' means any tank vessel covered by an operating agreement under this chapter on or after January 1, 2021.

''(3) PERSON.—The term 'person' includes corporations, partnerships, and associations existing under, or authorized by, laws of the United States, or any State, territory, district, or possession thereof, or any foreign country.

''(4) TANK VESSEL.—The term 'tank vessel' has the meaning that term has under section 2101 of this title.

''(5) UNITED STATES CITIZEN TRUST.—The term 'United States citizen trust'—

''(A) means a trust for which—

''(i) each of the trustees is a citizen of the United States; and

''(ii) the application for documentation of the vessel under chapter 121 of this title includes an affidavit of each trustee

stating that the trustee is not aware of any reason involving a beneficiary of the trust that is not a citizen of the United States, or involving any other person who is not a citizen of the United States, as a result of which the beneficiary or other person would hold more than 25 percent of the aggregate power to influence or limit the exercise of the authority of the trustee with respect to matters involving any ownership or operation of the vessel that may adversely affect the interests of the United States;

''(B) does not include a trust for which any person that is not a citizen of the United States has authority to direct, or participate in directing, a trustee for a trust in matters involving any ownership or operation of the vessel that may adversely affect the interests of the United States or in removing a trustee without cause, either directly or indirectly through the control of another person, unless the trust instrument provides that persons who are not citizens of the United States may not hold more

than 25 percent of the aggregate authority to so direct or remove a trustee; and

"(C) may include a trust for which a person who is not a citizen of the United States holds more than 25 percent of the beneficial interest in the trust.

"§ 70702. Establishment of the Tanker Security Fleet

"(a) IN GENERAL.—The Secretary of Transportation, in consultation with the Secretary of Defense, shall establish a fleet of active, commercially viable, militarily useful, privately owned product tankers to meet national defense and other security requirements and maintain a United States presence in international commercial shipping. The fleet shall consist of privately owned vessels of the United States for which there are in effect operating agreements under this chapter, and shall be known as the 'Tanker Security Fleet' (hereinafter in this chapter referred to as the 'Fleet').

"(b) VESSEL ELIGIBILITY.—A vessel is eligible to be included in the Fleet if the vessel—

"(1) meets the requirements under paragraph (1), (2), (3), or (4) of subsection (c);

"(2) is operated (or in the case of a vessel to be constructed, will be operated) in providing transportation in United States foreign commerce;

"(3) is self-propelled;

"(4) is not more than ten years of age on the date the vessel is first included in the Fleet and not more than 25 years of age at any time during which the vessel is included in the Fleet;

"(5) is determined by the Secretary of Defense to be suitable for use by the United States for national defense or military purposes in time of war or national emergency; and

"(6) is commercially viable, as determined by the Secretary of Transportation; and

"(7) is—

"(A) a vessel of the United States; or

"(B) not a vessel of the United States, but—

"(i) the owner of the vessel has demonstrated an intent to have the vessel documented under chapter 121 of this title if it is included in the Fleet; and

"(ii) at the time an operating agreement is entered into under this chapter, the vessel is eligible for documentation under chapter 121 of this title.

"(c) REQUIREMENTS REGARDING CITIZENSHIP OF OWNERS, CHARTERERS, AND OPERATORS.—

"(1) VESSELS OWNED AND OPERATED BY SECTION 50501 CITIZENS.—A vessel meets the requirements of this paragraph if, during the period of an operating agreement under this chapter that applies to the vessel, the vessel will be owned and operated by one or more persons that are citizens of the United States under section 50501 of this title.

"(2) VESSELS OWNED BY A SECTION 50501 CITIZEN, OR UNITED STATES CITIZEN TRUST, AND CHARTERED TO A DOCUMENTATION CITIZEN.—A vessel meets the requirements of this paragraph if—

"(A) during the period of an operating agreement under this chapter that applies to the vessel, the vessel will be—

"(i) owned by a person that is a citizen of the United States under section 50501 of this title or that is a United States citizen trust; and

"(ii) demise chartered to a person—

"(I) that is eligible to document the vessel under chapter 121 of this title;

"(II) the chairman of the board of directors, chief executive officer, and a majority of the members of the

board of directors of which are citizens of the United States under section 50501 of this title, and are appointed and subjected to removal only upon approval by the Secretary; and

"(III) that certifies to the Secretary that there are no treaties, statutes, regulations, or other laws that would prohibit the owner or operator for the vessel from performing its obligations under an operating agreement under this chapter;

"(B) in the case of a vessel that will be demise chartered to a person that is owned or controlled by another person that is not a citizen of the United States under section 50501 of this title, the other person enters into an agreement with the Secretary not to influence the operation of the vessel in a manner that will adversely affect the interests of the United States; and

"(C) the Secretary of Transportation and the Secretary of Defense notify the Committee on Armed Services and the Committee on Commerce, Science, and Transportation of the Sen-

ate and the Committee on Armed Services and the Committee on Transportation and Infrastructure of the House of Representatives that the Secretaries concur with the certification required under subparagraph (A)(ii)(III), and have reviewed and agree that there are no legal, operational, or other impediments that would prohibit the owner or operator for the vessel from performing its obligations under an operating agreement under this chapter.

''(3) VESSELS OWNED AND OPERATED BY A DEFENSE OWNER OR OPERATOR.—A vessel meets the requirements of this paragraph if—

''(A) during the period of an operating agreement under this chapter that applies to the vessel, the vessel will be owned and operated by a person that—

''(i) is eligible to document a vessel under chapter 121 of this title;

''(ii) operates or manages other vessels of the United States for the Secretary of Defense, or charters other vessels to the Secretary of Defense;

"(iii) has entered into a special security agreement for the purpose of this paragraph with the Secretary of Defense;

"(iv) makes the certification described in paragraph (2)(A)(ii)(III); and

"(v) in the case of a vessel described in paragraph (2)(B), enters into an agreement referred to in that subparagraph; and

"(B) the Secretary of Transportation and the Secretary of Defense notify the Committee on Armed Services and the Committee on Commerce, Science, and Transportation of the Senate and the Committee on Armed Services and the Committee on Transportation and Infrastructure of the House of Representatives that they concur with the certification required under subparagraph (A)(iv), and have reviewed and agree that there are no legal, operational, or other impediments that would prohibit the owner or operator for the vessel from performing its obligations under an operating agreement under this chapter.

"(4) VESSELS OWNED BY DOCUMENTATION CITIZENS AND CHARTERED TO SECTION 50501 CITIZENS.—A vessel meets the requirements of this

paragraph if, during the period of an operating agreement under this chapter, the vessel will be—

"(A) owned by a person who is eligible to document a vessel under chapter 121 of this title; and

"(B) demise chartered to a person that is a citizen of the United States under section 50501 of this title.

"(d) REQUEST BY SECRETARY OF DEFENSE.—The Secretary of Defense shall request that the Commandant of the Coast Guard issue any waiver under section 501 of this title that the Secretary of Defense determines is necessary for purposes of this chapter.

"(e) VESSEL STANDARDS.—

"(1) CERTIFICATE OF INSPECTION.—A vessel used to provide oceangoing transportation that the Commandant of the Coast Guard determines meets the criteria of subsection (b) but which, on the date of enactment of this section, is not documented under chapter 121 of this title, shall be eligible for a certificate of inspection if the Commandant of the Coast Guard determines that—

"(A) the vessel is classed by and designed in accordance with the rules of the American Bureau of Shipping, or another classification

society accepted by the Commandant of the Coast Guard;

"(B) the vessel complies with applicable international agreements and associated guidelines, as determined by the country in which the vessel was documented immediately before becoming documented under chapter 121 of this title; and

"(C) the country has not been identified by the Commandant of the Coast Guard as inadequately enforcing international vessel regulations as to that vessel.

"(2) RELIANCE ON CLASSIFICATION SOCIETY.—

"(A) IN GENERAL.—The Commandant of the Coast Guard may rely on a certification from the American Bureau of Shipping or, subject to subparagraph (B), another classification society accepted by the Commandant of the Coast Guard, to establish that a vessel is in compliance with the requirements of paragraph (1).

"(B) FOREIGN CLASSIFICATION SOCIETY.—The Secretary may accept certification from a foreign classification society under subparagraph (A) only—

"(i) to the extent that the government of the foreign country in which the society is headquartered provides access on a reciprocal basis to the American Bureau of Shipping; and

"(ii) if the foreign classification society has offices and maintains records in the United States.

"§ 70703. Vessel standards

"(a) CERTIFICATE OF INSPECTION.—A vessel used to provide transportation service as a common carrier that the Secretary of Transportation determines meets the criteria of section 53102(b) of this title, which on the date of enactment of this section is not a documented vessel (as that term is defined in section 106 of this title), shall be eligible for a certificate of inspection if the Secretary determines that—

"(1) the vessel is classed by and designed in accordance with the rules of the American Bureau of Shipping or another classification society accepted by the Secretary;

"(2) the vessel complies with applicable international agreements and associated guidelines, as determined by the country in which the vessel was

documented immediately before becoming a documented vessel (as defined in that section); and

"(3) that country has not been identified by the Secretary as inadequately enforcing international vessel regulations as to that vessel.

"(b) CONTINUED ELIGIBILITY FOR CERTIFICATE.—Subsection (a) does not apply to any vessel that has failed to comply with the applicable international agreements and association guidelines referred to in subsection (a)(2).

"(c) RELIANCE ON CLASSIFICATION SOCIETY.—

"(1) IN GENERAL.—The Secretary may rely on a certification from the American Bureau of Shipping or, subject to paragraph (2), another classification society accepted by the Secretary, to establish that a vessel is in compliance with the requirements of subsections (a) and (b).

"(2) FOREIGN CLASSIFICATION SOCIETY.—The Secretary may accept certification from a foreign classification society under paragraph (1) only—

"(A) to the extent that the government of the foreign country in which the society is headquartered provides access on a reciprocal basis to the American Bureau of Shipping; and

"(B) if the foreign classification society has offices and maintains records in the United States.

"§ 70704. Award of operating agreements

"(a) IN GENERAL.—The Secretary of Transportation shall require, as a condition of including any vessel in the Fleet, that the owner or operator of the vessel enter into an operating agreement with the Secretary under this section.

"(b) PROCEDURE FOR APPLICATIONS.—

"(1) PARTICIPATING FLEET VESSELS.—

"(A) IN GENERAL.—The Secretary of Transportation shall accept an application for an operating agreement for a participating Fleet vessel under the priority under paragraph (2) only from a person that has authority to enter into an operating agreement under this chapter.

"(B) VESSEL UNDER DEMISE CHARTER.—For purposes of subparagraph (A), in the case of a vessel that is subject to a demise charter that terminates by its own terms on September 30, 2035 (without giving effect to any extension provided therein for completion of a voyage or to effect the actual redelivery of the vessel), or

that is terminable at the will of the owner of the vessel after such date, only the owner of the vessel shall be treated as having the authority referred to in subparagraph (A).

''(C) VESSEL OWNED BY A UNITED STATES CITIZEN TRUST.—For purposes of subparagraph (B), in the case of a vessel owned by a United States citizen trust, the term 'owner of the vessel' includes the beneficial owner of the vessel with respect to such trust.

''(2) DISCRETION WITHIN PRIORITY.—The Secretary of Transportation—

''(A) may award operating agreements under paragraph (1) according to such priorities as the Secretary considers appropriate; and

''(B) shall award operating agreements within any such priority—

''(i) in accordance with operational requirements specified by the Secretary of Defense;

''(ii) in the case of operating agreements awarded under subparagraph (B) of paragraph (1), according to applicants' records of owning and operating vessels; and

1 ''(iii) subject to approval of the Sec-
2 retary of Defense.
3 ''(c) LIMITATION.—For any fiscal year, the Secretary
4 may not award operating agreements under this chapter
5 that require payments under section 70707 of this title
6 for more than 10 vessels.
7 **"§ 70705. Effectiveness of operating agreements**
8 ''(a) IN GENERAL.—Subject to the availability of ap-
9 propriations for such purpose, the Secretary of Transpor-
10 tation may enter into an operating agreement under this
11 chapter for fiscal year 2021 and any subsequent fiscal
12 year. Each such agreement may be renewed annually for
13 up to seven years.
14 ''(b) VESSELS UNDER CHARTER TO THE UNITED
15 STATES.—The owner or operator of a vessel under charter
16 to the United States is eligible to receive payments pursu-
17 ant to any operating agreement that covers such vessel.
18 ''(c) TERMINATION.—
19 ''(1) TERMINATION BY SECRETARY FOR LACK
20 OF OWNER OR OPERATOR COMPLIANCE.—If the
21 owner or operator with respect to an operating
22 agreement materially fails to comply with the terms
23 of the agreement—
24 ''(A) the Secretary shall notify the owner
25 or operator and provide a reasonable oppor-

tunity to comply with the operating agreement; and

"(B) the Secretary shall terminate the operating agreement if the owner or operator fails to achieve such compliance.

"(2) TERMINATION BY OWNER OR OPERATOR.—

"(A) IN GENERAL.—If an owner or operator provides notice of the intent to terminate an operating agreement under this chapter on a date specified by not later than 60 days prior to such date, such agreement shall terminate on the date specified by the owner or operator.

"(B) REPLACEMENT.—An operating agreement with respect to a vessel shall terminate on the date that is three years after the date on which the vessel begins operating under the agreement, if—

"(i) the owner or operator notifies the Secretary, by not later than two years after the date the vessel begins operating under the agreement, that the owner or operator intends to terminate the agreement under this subparagraph; and

"(ii) the Secretary of Transportation, in coordination with the Secretary of Defense, determines that—

"(I) an application for an operating agreement under this chapter has been received for a replacement vessel that is acceptable to the Secretaries; and

"(II) during the period of an operating agreement under this chapter that applies to the replacement vessel, the replacement vessel will be—

"(aa) owned and operated by one or more persons that are citizens of the United States under section 50501 of this title; or

"(bb) owned by a person who is eligible to document the vessel under chapter 121 of this title, and operated by a person that is a citizen of the United States under section 50501 of this title.

"(d) NONRENEWAL FOR LACK OF FUNDS.—

"(1) IN GENERAL.—If sufficient funds are not made available to carry out an operating agreement under this chapter—

"(A) the Secretary of Transportation shall submit to the Committee on Armed Services and the Committee on Commerce, Science, and Transportation of the Senate and the Committee on Armed Services and the Committee on Transportation and Infrastructure of the House of Representatives notice that such agreement shall be not renewed effective on the 60th day of the fiscal year, unless such funds are made available before such day; and

"(B) effective on the 60th day of such fiscal year, terminate such agreement and provide notice of such termination to the owner or operator of the vessel covered by the agreement.

"(2) RELEASE OF VESSELS FROM OBLIGATIONS.—If an operating agreement for a vessel under this chapter is not renewed pursuant to paragraph (1), then the owner or operator of the vessel is released from any further obligation under the operating agreement as of the date of such termination or nonrenewal.

"(3) FOREIGN TRANSFER AND REGISTRATION.—The owner or operator of a vessel covered by an operating agreement under this chapter may transfer and register such vessel under a foreign registry that is acceptable to the Secretary and the Secretary of Defense, notwithstanding section 70701 of this title.

"(4) REQUISITION.—If chapter 563 of this title is applicable to a vessel after registration, then the vessel is available to be requisitioned by the Secretary pursuant to chapter 563 of this title.

"§ 70706. Obligations and rights under operating agreements

"(a) OPERATION OF VESSEL.—An operating agreement under this chapter shall require that, during the period the vessel covered by the agreement is operating under the agreement the vessel shall—

"(1) be operated in the United States foreign commerce, mixed United States foreign commerce and domestic trade allowed under a registry endorsement issued under section 12111 of this title, foreign-to-foreign commerce, or under a charter to the United States;

"(2) not be operated in the coastwise trade except as described in paragraph (1); and

"(3) be documented under chapter 121 of this title.

"(b) OPERATING AGREEMENT IS AN OBLIGATION OF THE UNITED STATES GOVERNMENT.—An operating agreement under this chapter constitutes a contractual obligation of the United States Government to pay the amounts provided for in the agreement to the extent of actual appropriations.

"(c) OBLIGATIONS OF OWNER OR OPERATOR.—

"(1) IN GENERAL.—The owner or operator of a vessel covered by an operating agreement under this chapter shall agree, as a condition of such agreement, to remain obligated to carry out the requirements described in paragraph (2) until the termination date specified in the agreement, even in the case of early termination of the agreement under section 70705(c) of this title. This subsection shall not apply in the case of an operating agreement terminated for lack of funds under section 70705(d) of this title.

"(2) REQUIREMENTS.—The requirements described in this paragraph are the following:

"(A) To continue the documentation of the vessel under chapter 121 of this title.

"(B) To be bound by the requirements of section 70708 of this title.

"(C) That all terms and conditions of an emergency preparedness agreement entered into under section 70708 of this title shall remain in effect, except that the terms of such emergency preparedness agreement may be modified by the mutual consent of the owner or operator, the Secretary and the Secretary of Defense as provided in such section.

"(d) TRANSFER OF OPERATING AGREEMENTS.—The owner or operator of a vessel covered by an operating agreement under this chapter may transfer that agreement (including all rights and obligations under the agreement) to any person that is eligible to enter into that operating agreement under this chapter, if the transfer is approved by the Secretary of Transportation and the Secretary of Defense.

"(e) REPLACEMENT OF VESSELS COVERED BY AGREEMENTS.—A owner or operator may replace a vessel covered by an operating agreement with another vessel that is eligible to be included in the Fleet under section 70702(b), if the Secretary of Transportation, in coordination with the Secretary of Defense, approves the replace-

ment of the vessel. In selecting a replacement vessel, the owner or operator shall give primary consideration to—

"(1) the commercial viability of the vessel;

"(2) the utility of the vessel with respect to the operating requirements of the owner or operator; and

"(3) ensuring that the commercial and military utility of any replacement vessel is not less than that of the initial vessel.

"§ 70707. Payments

"(a) ANNUAL PAYMENT.—Subject to the availability of appropriations for such purpose and the other provisions of this chapter, the Secretary shall pay to the owner or operator of a vessel covered by an operating agreement under this chapter an amount equal to $6,000,000 for each vessel covered by the agreement for each fiscal year that the vessel is covered by the agreement. Such amount shall be paid in equal monthly installments on the last day of each month. The amount payable under this subsection may not be reduced except as provided by this section.

"(b) CERTIFICATION REQUIRED FOR PAYMENT.—As a condition of receiving payment under this section for a fiscal year for a vessel, the owner or operator for the vessel shall certify, in accordance with regulations issued by the Secretary, that the vessel has been and will be operated

in accordance with section 70706 of this title for at least 320 days during the fiscal year. Days during which the vessel is drydocked, surveyed, inspected, or repaired shall be considered days of operation for purposes of this subsection.

''(c) GENERAL LIMITATIONS.—The Secretary may not make any payment under this chapter for a vessel with respect to any days for which the vessel is—

''(1) not operated or maintained in accordance with an operating agreement under this chapter; or

''(2) more than 25 years of age.

''(d) REDUCTIONS IN PAYMENTS.—With respect to payments under this chapter for a vessel covered by an operating agreement, the Secretary—

''(1) except as provided in paragraph (2), may not reduce such a payment for the operation of the vessel to carry military or other preference cargoes under section 55302(a), 55304, 55305, or 55314 of this title, section 2631 of title 10, or any other cargo preference law of the United States;

''(2) may not make such a payment for any day that the vessel is engaged in transporting more than 7,500 tons of civilian bulk preference cargoes pursuant to section 55302(a), 55305, or 55314 of this title, section 90l(a) or (b) of the Merchant Marine

Act, 1936 (46 App. U.S.C. 124l(a), 1241(b), or 1241(f)), that is bulk cargo; and

''(3) shall make a pro rata reduction for each day less than 320 in a fiscal year that the vessel is not operated in accordance with section 70706 of this title.

''(e) LIMITATIONS REGARDING NONCONTIGUOUS DOMESTIC TRADE.—

''(1) IN GENERAL.—No owner or operator shall receive payments pursuant to this chapter during a period in which it participates in noncontiguous domestic trade.

''(2) LIMITATION ON APPLICATION.—Paragraph (1) shall not apply to a owner or operator that is a citizen of the United States within the meaning of section 50501 of this title, applying the 75 percent ownership requirement of that section.

''(3) PARTICIPATES IN A NONCONTIGUOUS TRADE DEFINED.—In this subsection the term 'participates in a noncontiguous domestic trade' means directly or indirectly owns, charters, or operates a vessel engaged in transportation of cargo between a point in the contiguous 48 States and a point in Alaska, Hawaii, or Puerto Rico, other than a point in Alaska north of the Arctic Circle.

"§ 70708. National security requirements

''(a) EMERGENCY PREPAREDNESS AGREEMENT REQUIRED.—The Secretary of Transportation, in coordination with the Secretary of Defense, shall establish an emergency preparedness program under this section under which the owner or operator of a vessel covered by an operating agreement under this chapter shall agree, as a condition of the operating agreement, to enter into an emergency preparedness agreement with the Secretaries. Each such emergency preparedness agreement shall be entered into as promptly as practicable after the owner or operator has entered into the operating agreement.

''(b) TERMS OF AGREEMENT.—The terms of an agreement under this section—

''(1) shall provide that upon request by the Secretary of Defense during time of war or national emergency, or whenever determined by the Secretary of Defense to be necessary for national security or contingency operation (as that term is defined in section 101 of title 10), the owner or operator shall make available commercial transportation resources (including services) described in subsection (d) to the Secretary of Defense;

''(2) shall include such additional terms as may be established by the Secretary of Transportation and the Secretary of Defense; and

"(3) shall allow for the modification or addition of terms upon agreement by the Secretary of Transportation and the owner or operator and the approval by the Secretary of Defense.

"(c) PARTICIPATION AFTER EXPIRATION OF OPERATING AGREEMENT.—Except as provided by section 70706 of this title, the Secretary may not require, through an emergency preparedness agreement or an operating agreement, that an owner or operator of a vessel covered by an operating agreement continue to participate in an emergency preparedness agreement after the operating agreement has expired according to its terms or is otherwise no longer in effect. After the expiration of an emergency preparedness agreement, a owner or operator may voluntarily continue to participate in the agreement.

"(d) RESOURCES MADE AVAILABLE.—The commercial transportation resources to be made available under an emergency preparedness agreement shall include vessels or capacity in vessels, terminal facilities, management services, and other related services, or any agreed portion of such nonvessel resources for activation as the Secretary of Defense may determine to be necessary, seeking to minimize disruption of the owner or operator's service to commercial customers.

"(e) COMPENSATION.—

"(1) IN GENERAL.—Each emergency preparedness agreement under this section shall provide that the Secretary of Defense shall pay fair and reasonable compensation for all commercial transportation resources provided pursuant to this section.

"(2) SPECIFIC REQUIREMENTS.—Compensation under this subsection—

"(A) shall not be less than the owner or operator's commercial market charges for like transportation resources;

"(B) shall be fair and reasonable considering all circumstances;

"(C) shall be provided from the time that a vessel or resource is required by the Secretary of Defense until the time it is redelivered to the owner or operator and is available to reenter commercial service; and

"(D) shall be in addition to and shall not in any way reflect amounts payable under section 70707 of this title.

"(f) TEMPORARY REPLACEMENT VESSELS.—Notwithstanding section 55302(a), 55304, 55305, or 55314 of this title, section 2631 of title 10, or any other cargo preference law of the United States—

"(1) an owner or operator may operate or employ in foreign commerce a foreign-flag vessel or foreign-flag vessel capacity as a temporary replacement for a vessel of the United States or vessel of the United States capacity that is activated by the Secretary of Defense under an emergency preparedness agreement or a primary Department of Defense sealift readiness program; and

"(2) such replacement vessel or vessel capacity shall be eligible during the replacement period to transport preference cargoes subject to sections 55302(a), 55304, 55305, and 55314 of this title and section 2631 of title 10 to the same extent as the eligibility of the vessel or vessel capacity replaced.

"(g) REDELIVERY AND LIABILITY OF THE UNITED STATES FOR DAMAGES.—

"(1) IN GENERAL.—All commercial transportation resources activated under an emergency preparedness agreement shall, upon termination of the period of activation, be redelivered to the owner or operator in the same good order and condition as when received, less ordinary wear and tear, or the Secretary of Defense shall fully compensate the owner or operator for any necessary repair or replacement.

"(2) LIMITATION ON UNITED STATES LIABILITY.—Except as may be expressly agreed in an emergency preparedness agreement, or as otherwise provided by law, the Government shall not be liable for disruption of an owner or operator's commercial business or other consequential damages to an owner or operator arising from the activation of commercial transportation resources under an emergency preparedness agreement.

"§ 70709. Regulatory relief

"(a) OPERATION IN FOREIGN COMMERCE.—An owner or operator for a vessel included in an operating agreement under this chapter may operate the vessel in the foreign commerce of the United States without restriction.

"(b) OTHER RESTRICTIONS.—The restrictions of section 55305(a) of this title concerning the building, rebuilding, or documentation of a vessel in a foreign country shall not apply to a vessel for any day the operator of the vessel is receiving payments for the operation of that vessel under an operating agreement under this chapter.

"(c) TELECOMMUNICATIONS EQUIPMENT.—The telecommunications and other electronic equipment on an existing vessel that is redocumented under the laws of the United States for operation under an operating agreement

under this chapter shall be deemed to satisfy all Federal Communications Commission equipment certification requirements, if—

"(1) such equipment complies with all applicable international agreements and associated guidelines as determined by the country in which the vessel was documented immediately before becoming documented under the laws of the United States;

"(2) that country has not been identified by the Secretary as inadequately enforcing international regulations as to that vessel; and

"(3) at the end of its useful life, such equipment shall be replaced with equipment that meets Federal Communications Commission equipment certification standards.

"§ 70710. Special rule regarding age of participating Fleet vessels

"Any age restriction under section 70702(b)(4) of this title shall not apply to a participating Fleet vessel during the 30-month period beginning on the date the vessel begins operating under an operating agreement under this chapter, if the Secretary of Transportation determines that the owner or operator of the vessel has entered into an arrangement to obtain and operate under the operating agreement for the participating Fleet vessel a replacement

vessel that, upon commencement of such operation, will be eligible to be included in the Fleet under section 70702(b) of this title.

"§ 70711. Regulations

''The Secretary of Transportation and the Secretary of Defense may each prescribe rules as necessary to carry out their respective responsibilities under this chapter.

"§ 70712. Authorization of appropriations

''There is authorized to be appropriated for payments under section 70707, $60,000,000 for each of fiscal years 2021 through 2035, to remain available until expended.

"§ 70713. Acquisition of Fleet vessels

''(a) IN GENERAL.—Upon replacement of a Fleet Vessel under an operating agreement under this chapter, and subject to agreement by the owner or operator of the vessel, the Secretary of Transportation is authorized, subject to the concurrence of the Secretary of Defense, to acquire the vessel being replaced for inclusion in the National Defense Reserve Fleet.

''(b) REQUIREMENTS.—To be eligible for acquisition by the Secretary of Transportation under this section a vessel shall—

''(1) have been covered by an operating agreement under this chapter for not less than three years; and

"(2) meet recapitalization requirements for the Ready Reserve Force.

"(c) FAIR MARKET VALUE.—A fair market value shall be established by the Maritime Administration for acquisition of an eligible vessel under this section.

"(d) APPROPRIATIONS.—Vessel acquisitions under this section shall be subject to the availability of appropriations. Amounts made available to carry out this section shall be derived from amounts authorized to be appropriated for the National Defense Reserve Fleet. Amounts authorized to be appropriated to carry out the Maritime Security Program may not be use to carry out this section.".

(b) CLERICAL AMENDMENT.—The table of chapters for subtitle VII of title 46, United States Code, is amended by adding at the end the following:

"707. Tanker Security Fleet ..... 70701".

(c) DEADLINE FOR ACCEPTING APPLICATIONS.—

(1) IN GENERAL.—The Secretary of Transportation shall begin accepting applications for enrollment of vessels in the Tanker Security Fleet established under chapter 707 of title 46, United States Code, as added by subsection (a), by not later than 30 days after the date of the enactment of this Act.

(2) APPROVAL.—Not later than 90 days after receipt of an application for the enrollment of a ves-

sel in the Tanker Security Fleet, the Secretary, in coordination with the Secretary of Defense shall—

(A) approve the application and enter into an operating agreement with the applicant; or

(B) provide to the applicant a written explanation for the denial of the application.

DIVISION D—FUNDING TABLES

SEC. 4001. AUTHORIZATION OF AMOUNTS IN FUNDING TABLES.

(a) IN GENERAL.—Whenever a funding table in this division specifies a dollar amount authorized for a project, program, or activity, the obligation and expenditure of the specified dollar amount for the project, program, or activity is hereby authorized, subject to the availability of appropriations.

(b) MERIT-BASED DECISIONS.—A decision to commit, obligate, or expend funds with or to a specific entity on the basis of a dollar amount authorized pursuant to subsection (a) shall—

(1) be based on merit-based selection procedures in accordance with the requirements of sections 2304(k) and 2374 of title 10, United States Code, or on competitive procedures; and

(2) comply with other applicable provisions of law.

(c) RELATIONSHIP TO TRANSFER AND PROGRAMMING AUTHORITY.—An amount specified in the funding tables in this division may be transferred or reprogrammed under a transfer or reprogramming authority provided by another provision of this Act or by other law. The transfer or reprogramming of an amount specified in such funding tables shall not count against a ceiling on such transfers or reprogrammings under section 1001 or section 1512 of this Act or any other provision of law, unless such transfer or reprogramming would move funds between appropriation accounts.

(d) APPLICABILITY TO CLASSIFIED ANNEX.—This section applies to any classified annex that accompanies this Act.

(e) ORAL AND WRITTEN COMMUNICATIONS.—No oral or written communication concerning any amount specified in the funding tables in this division shall supersede the requirements of this section.

TITLE XLI—PROCUREMENT

SEC. 4101. PROCUREMENT.

SEC. 4101. PROCUREMENT
(In Thousands of Dollars)

Line	Item	FY 2020 Request	House Authorized
	AIRCRAFT PROCUREMENT, ARMY		
	FIXED WING		
002	UTILITY F/W AIRCRAFT	16,000	0
	Early to need		[–16,000]
004	RQ–11 (RAVEN)	23,510	21,510
	Unit cost growth		[–2,000]
	ROTARY		
005	TACTICAL UNMANNED AIRCRAFT SYSTEM (TUAS)	12,100	12,100
007	HELICOPTER, LIGHT UTILITY (LUH)		11,000
	Program increase for sustainment improvements		[11,000]
008	AH–64 APACHE BLOCK IIIA REMAN	806,849	786,009
	Unjustified cost growth		[–20,840]
009	AH–64 APACHE BLOCK IIIA REMAN	190,870	174,970
	Unjustified cost growth		[–15,900]

SEC. 4101. PROCUREMENT
(In Thousands of Dollars)

Line	Item	FY 2020 Request	House Authorized
012	UH–60 BLACKHAWK M MODEL (MYP)	1,411,540	1,411,540
013	UH–60 BLACKHAWK M MODEL (MYP)	79,572	79,572
014	UH–60 BLACK HAWK L AND V MODELS	169,290	169,290
015	CH–47 HELICOPTER	140,290	131,290
	Unit cost growth		[–9,000]
016	CH–47 HELICOPTER	18,186	46,186
	Advanced procurement for CH–47F Block II		[28,000]
	MODIFICATION OF AIRCRAFT		
019	UNIVERSAL GROUND CONTROL EQUIPMENT (UAS)	2,090	2,090
020	GRAY EAGLE MODS2	14,699	14,699
021	MULTI SENSOR ABN RECON (MIP)	35,189	35,189
022	AH–64 MODS	58,172	58,172
023	CH–47 CARGO HELICOPTER MODS (MYP)	11,785	6,785
	Unobligated balances		[–5,000]
024	GRCS SEMA MODS (MIP)	5,677	5,677
025	ARL SEMA MODS (MIP)	6,566	6,566
026	EMARSS SEMA MODS (MIP)	3,859	3,859
027	UTILITY/CARGO AIRPLANE MODS	15,476	13,476
	Unit cost discrepancy		[–2,000]
028	UTILITY HELICOPTER MODS	6,744	6,744
029	NETWORK AND MISSION PLAN	105,442	98,442
	Cost growth		[–7,000]
030	COMMS, NAV SURVEILLANCE	164,315	164,315
032	GATM ROLLUP	30,966	30,966
033	RQ–7 UAV MODS	8,983	38,983
	Program increase		[30,000]
034	UAS MODS	10,205	10,205
	GROUND SUPPORT AVIONICS		
035	AIRCRAFT SURVIVABILITY EQUIPMENT	52,297	52,297
036	SURVIVABILITY CM	8,388	8,388
037	CMWS	13,999	13,999
038	COMMON INFRARED COUNTERMEASURES (CIRCM)	168,784	168,784
	OTHER SUPPORT		
039	AVIONICS SUPPORT EQUIPMENT	1,777	1,777
040	COMMON GROUND EQUIPMENT	18,624	18,624
041	AIRCREW INTEGRATED SYSTEMS	48,255	48,255
042	AIR TRAFFIC CONTROL	32,738	32,738
044	LAUNCHER, 2.75 ROCKET	2,201	2,201
045	LAUNCHER GUIDED MISSILE: LONGBOW HELLFIRE XM2	991	991
	TOTAL AIRCRAFT PROCUREMENT, ARMY	**3,696,429**	**3,687,689**
	MISSILE PROCUREMENT, ARMY		
	SURFACE-TO-AIR MISSILE SYSTEM		
001	SYSTEM INTEGRATION AND TEST PROCUREMENT	113,857	113,857
002	M-SHORAD—PROCUREMENT	103,800	56,800
	Early to need		[–47,000]
003	MSE MISSILE	698,603	698,603
004	INDIRECT FIRE PROTECTION CAPABILITY INC 2–I	9,337	9,337
	AIR-TO-SURFACE MISSILE SYSTEM		
006	HELLFIRE SYS SUMMARY	193,284	173,284
	Unit cost growth		[–20,000]
007	JOINT AIR-TO-GROUND MSLS (JAGM)	233,353	198,353
	Contract and schedule delays		[–35,000]
	ANTI-TANK/ASSAULT MISSILE SYS		
008	JAVELIN (AAWS-M) SYSTEM SUMMARY	138,405	138,405
009	TOW 2 SYSTEM SUMMARY	114,340	110,340
	Unit cost growth		[–4,000]
010	TOW 2 SYSTEM SUMMARY	10,500	10,500
011	GUIDED MLRS ROCKET (GMLRS)	797,213	767,213
	Program adjustment		[–30,000]
012	MLRS REDUCED RANGE PRACTICE ROCKETS (RRPR)	27,555	27,555
014	ARMY TACTICAL MSL SYS (ATACMS)—SYS SUM	209,842	184,842
	Excess to need		[–25,000]
	MODIFICATIONS		
016	PATRIOT MODS	279,464	279,464
017	ATACMS MODS	85,320	80,320
	Unit cost growth		[–5,000]
018	GMLRS MOD	5,094	5,094
019	STINGER MODS	81,615	81,615
020	AVENGER MODS	14,107	14,107
021	ITAS/TOW MODS	3,469	3,469
022	MLRS MODS	39,019	39,019
023	HIMARS MODIFICATIONS	12,483	12,483
	SPARES AND REPAIR PARTS		
024	SPARES AND REPAIR PARTS	26,444	26,444
	SUPPORT EQUIPMENT & FACILITIES		
025	AIR DEFENSE TARGETS	10,593	10,593
	TOTAL MISSILE PROCUREMENT, ARMY	**3,207,697**	**3,041,697**

SEC. 4101. PROCUREMENT
(In Thousands of Dollars)

Line	Item	FY 2020 Request	House Authorized
	PROCUREMENT OF W&TCV, ARMY		
	TRACKED COMBAT VEHICLES		
002	ARMORED MULTI PURPOSE VEHICLE (AMPV)	264,040	259,040
	Unit cost discrepancy		[–5,000]
	MODIFICATION OF TRACKED COMBAT VEHICLES		
003	STRYKER (MOD)	144,387	393,587
	Accelerate Stryker medium caliber weapon system—Army unfunded priority		[249,200]
004	STRYKER UPGRADE	550,000	550,000
005	BRADLEY PROGRAM (MOD)	638,781	573,781
	Program delay		[–65,000]
006	M109 FOV MODIFICATIONS	25,756	25,756
007	PALADIN INTEGRATED MANAGEMENT (PIM)	553,425	553,425
009	ASSAULT BRIDGE (MOD)	2,821	2,821
010	ASSAULT BREACHER VEHICLE	31,697	31,697
011	M88 FOV MODS	4,500	4,500
012	JOINT ASSAULT BRIDGE	205,517	205,517
013	M1 ABRAMS TANK (MOD)	348,800	408,800
	Vehicle protection system for one armored brigade		[60,000]
014	ABRAMS UPGRADE PROGRAM	1,752,784	1,752,784
	WEAPONS & OTHER COMBAT VEHICLES		
016	MULTI-ROLE ANTI-ARMOR ANTI-PERSONNEL WEAPON S	19,420	19,420
017	GUN AUTOMATIC 30MM M230	20,000	20,000
019	MORTAR SYSTEMS	14,907	14,907
020	XM320 GRENADE LAUNCHER MODULE (GLM)	191	191
021	PRECISION SNIPER RIFLE	7,977	7,977
022	COMPACT SEMI-AUTOMATIC SNIPER SYSTEM	9,860	9,860
023	CARBINE	30,331	30,331
024	SMALL ARMS—FIRE CONTROL	8,060	60
	Late contract award		[–8,000]
025	COMMON REMOTELY OPERATED WEAPONS STATION	24,007	24,007
026	HANDGUN	6,174	6,174
	MOD OF WEAPONS AND OTHER COMBAT VEH		
028	MK–19 GRENADE MACHINE GUN MODS	3,737	3,737
029	M777 MODS	2,367	2,367
030	M4 CARBINE MODS	17,595	17,595
033	M240 MEDIUM MACHINE GUN MODS	8,000	8,000
034	SNIPER RIFLES MODIFICATIONS	2,426	2,426
035	M119 MODIFICATIONS	6,269	6,269
036	MORTAR MODIFICATION	1,693	1,693
037	MODIFICATIONS LESS THAN $5.0M (WOCV-WTCV)	4,327	4,327
	SUPPORT EQUIPMENT & FACILITIES		
038	ITEMS LESS THAN $5.0M (WOCV-WTCV)	3,066	3,066
039	PRODUCTION BASE SUPPORT (WOCV-WTCV)	2,651	2,651
	TOTAL PROCUREMENT OF W&TCV, ARMY	**4,715,566**	**4,946,766**
	PROCUREMENT OF AMMUNITION, ARMY		
	SMALL/MEDIUM CAL AMMUNITION		
001	CTG, 5.56MM, ALL TYPES	68,949	63,949
	Prior-year carryover		[–5,000]
002	CTG, 7.62MM, ALL TYPES	114,228	111,228
	Prior-year carryover		[–3,000]
003	CTG, HANDGUN, ALL TYPES	17,807	12,807
	Program adjustment		[–5,000]
004	CTG, .50 CAL, ALL TYPES	63,966	63,966
005	CTG, 20MM, ALL TYPES	35,920	27,920
	Unit cost growth		[–8,000]
006	CTG, 25MM, ALL TYPES	8,990	8,990
007	CTG, 30MM, ALL TYPES	68,813	57,229
	Prior-year carry over		[–1,134]
	Program adjustment		[–10,450]
008	CTG, 40MM, ALL TYPES	103,952	103,952
	MORTAR AMMUNITION		
009	60MM MORTAR, ALL TYPES	50,580	49,580
	Unit cost discrepancy		[–1,000]
010	81MM MORTAR, ALL TYPES	59,373	44,673
	Contract delays		[–14,700]
011	120MM MORTAR, ALL TYPES	125,452	123,452
	Unit cost growth		[–2,000]
	TANK AMMUNITION		
012	CARTRIDGES, TANK, 105MM AND 120MM, ALL TYPES	171,284	113,084
	Unit cost growth		[–58,200]
	ARTILLERY AMMUNITION		
013	ARTILLERY CARTRIDGES, 75MM & 105MM, ALL TYPES	44,675	44,675
014	ARTILLERY PROJECTILE, 155MM, ALL TYPES	266,037	266,037
015	PROJ 155MM EXTENDED RANGE M982	57,434	57,434
016	ARTILLERY PROPELLANTS, FUZES AND PRIMERS, ALL	271,602	265,602
	Cost growth and unjustified product improvements		[–6,000]

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(In Thousands of Dollars)

Line	Item	FY 2020 Request	House Authorized
	MINES		
017	MINES & CLEARING CHARGES, ALL TYPES	55,433	39,433
	Contract delay		[–16,000]
	ROCKETS		
018	SHOULDER LAUNCHED MUNITIONS, ALL TYPES	74,878	74,878
019	ROCKET, HYDRA 70, ALL TYPES	175,994	165,994
	Excess support costs		[–10,000]
	OTHER AMMUNITION		
020	CAD/PAD, ALL TYPES	7,595	7,595
021	DEMOLITION MUNITIONS, ALL TYPES	51,651	51,651
022	GRENADES, ALL TYPES	40,592	40,592
023	SIGNALS, ALL TYPES	18,609	18,609
024	SIMULATORS, ALL TYPES	16,054	16,054
	MISCELLANEOUS		
025	AMMO COMPONENTS, ALL TYPES	5,261	5,261
026	NON-LETHAL AMMUNITION, ALL TYPES	715	715
027	ITEMS LESS THAN $5 MILLION (AMMO)	9,213	9,213
028	AMMUNITION PECULIAR EQUIPMENT	10,044	10,044
029	FIRST DESTINATION TRANSPORTATION (AMMO)	18,492	18,492
030	CLOSEOUT LIABILITIES	99	99
	PRODUCTION BASE SUPPORT		
031	INDUSTRIAL FACILITIES	474,511	474,511
032	CONVENTIONAL MUNITIONS DEMILITARIZATION	202,512	202,512
033	ARMS INITIATIVE	3,833	3,833
	TOTAL PROCUREMENT OF AMMUNITION, ARMY	**2,694,548**	**2,554,064**
	OTHER PROCUREMENT, ARMY		
	TACTICAL VEHICLES		
001	TACTICAL TRAILERS/DOLLY SETS	12,993	12,993
002	SEMITRAILERS, FLATBED:	102,386	102,386
003	AMBULANCE, 4 LITTER, 5/4 TON, 4X4	127,271	127,271
004	GROUND MOBILITY VEHICLES (GMV)	37,038	35,038
	Unit cost growth		[–2,000]
006	JOINT LIGHT TACTICAL VEHICLE	996,007	976,507
	Army requested transfer to RDTE, A line 169		[–4,500]
	Simulator delay		[–15,000]
007	TRUCK, DUMP, 20T (CCE)	10,838	10,838
008	FAMILY OF MEDIUM TACTICAL VEH (FMTV)	72,057	138,057
	Program increase		[66,000]
009	FIRETRUCKS & ASSOCIATED FIREFIGHTING EQUIP	28,048	28,048
010	FAMILY OF HEAVY TACTICAL VEHICLES (FHTV)	9,969	9,969
011	PLS ESP	6,280	6,280
012	HVY EXPANDED MOBILE TACTICAL TRUCK EXT SERV	30,841	131,841
	Program increase		[101,000]
013	HMMWV RECAPITALIZATION PROGRAM	5,734	5,734
014	TACTICAL WHEELED VEHICLE PROTECTION KITS	45,113	45,113
015	MODIFICATION OF IN SVC EQUIP	58,946	58,946
	NON-TACTICAL VEHICLES		
017	HEAVY ARMORED VEHICLE	791	791
018	PASSENGER CARRYING VEHICLES	1,416	1,416
019	NONTACTICAL VEHICLES, OTHER	29,891	29,891
	COMM—JOINT COMMUNICATIONS		
021	SIGNAL MODERNIZATION PROGRAM	153,933	148,933
	Excess funding for spares		[–5,000]
022	TACTICAL NETWORK TECHNOLOGY MOD IN SVC	387,439	411,439
	ITN-M for one armored brigade combat team		[24,000]
023	SITUATION INFORMATION TRANSPORT	46,693	46,693
025	JCSE EQUIPMENT (USRDECOM)	5,075	5,075
	COMM—SATELLITE COMMUNICATIONS		
028	DEFENSE ENTERPRISE WIDEBAND SATCOM SYSTEMS	101,189	101,189
029	TRANSPORTABLE TACTICAL COMMAND COMMUNICATIONS	77,141	77,141
030	SHF TERM	16,054	16,054
031	ASSURED POSITIONING, NAVIGATION AND TIMING	41,074	24,914
	Contract delays		[–28,760]
	Program cancellation		[–7,400]
	Program increase		[20,000]
032	SMART-T (SPACE)	10,515	10,515
033	GLOBAL BRDCST SVC—GBS	11,800	11,800
034	ENROUTE MISSION COMMAND (EMC)	8,609	8,609
	COMM—C3 SYSTEM		
038	COE TACTICAL SERVER INFRASTRUCTURE (TSI)	77,533	77,533
	COMM—COMBAT COMMUNICATIONS		
039	HANDHELD MANPACK SMALL FORM FIT (HMS)	468,026	468,026
	Program delay		[–25,000]
	SFAB technology refresh		[25,000]
040	RADIO TERMINAL SET, MIDS LVT(2)	23,778	23,778
044	SPIDER FAMILY OF NETWORKED MUNITIONS INCR	10,930	10,930
046	UNIFIED COMMAND SUITE	9,291	8,291

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Line	Item	FY 2020 Request	House Authorized
	Excess program management costs		[–1,000]
047	COTS COMMUNICATIONS EQUIPMENT	55,630	55,630
048	FAMILY OF MED COMM FOR COMBAT CASUALTY CARE	16,590	16,590
049	ARMY COMMUNICATIONS & ELECTRONICS	43,457	43,457
	COMM—INTELLIGENCE COMM		
051	CI AUTOMATION ARCHITECTURE (MIP)	10,470	10,470
052	DEFENSE MILITARY DECEPTION INITIATIVE	3,704	3,704
	INFORMATION SECURITY		
053	FAMILY OF BIOMETRICS	1,000	1,000
054	INFORMATION SYSTEM SECURITY PROGRAM-ISSP	3,600	3,600
055	COMMUNICATIONS SECURITY (COMSEC)	160,899	141,899
	Unit cost growth		[–19,000]
056	DEFENSIVE CYBER OPERATIONS	61,962	61,962
057	INSIDER THREAT PROGRAM—UNIT ACTIVITY MONITO	756	756
058	PERSISTENT CYBER TRAINING ENVIRONMENT	3,000	3,000
	COMM—LONG HAUL COMMUNICATIONS		
059	BASE SUPPORT COMMUNICATIONS	31,770	26,770
	Insufficient budget justification		[–5,000]
	COMM—BASE COMMUNICATIONS		
060	INFORMATION SYSTEMS	159,009	139,009
	Unjustified growth		[–15,000]
	Unjustified growth in SRM HW		[–5,000]
061	EMERGENCY MANAGEMENT MODERNIZATION PROGRAM	4,854	4,854
062	HOME STATION MISSION COMMAND CENTERS (HSMCC)	47,174	47,174
063	INSTALLATION INFO INFRASTRUCTURE MOD PROGRAM	297,994	247,994
	Insufficient budget justification		[–50,000]
	ELECT EQUIP—TACT INT REL ACT (TIARA)		
066	JTT/CIBS-M (MIP)	7,686	7,686
068	DCGS-A (MIP)	180,350	180,350
070	TROJAN (MIP)	17,368	17,368
071	MOD OF IN-SVC EQUIP (INTEL SPT) (MIP)	59,052	59,052
	ELECT EQUIP—ELECTRONIC WARFARE (EW)		
077	LIGHTWEIGHT COUNTER MORTAR RADAR	5,400	5,400
078	EW PLANNING & MANAGEMENT TOOLS (EWPMT)	7,568	7,568
079	AIR VIGILANCE (AV) (MIP)	8,953	8,953
081	MULTI-FUNCTION ELECTRONIC WARFARE (MFEW) SYST	6,420	6,420
083	COUNTERINTELLIGENCE/SECURITY COUNTERMEASURES	501	501
084	CI MODERNIZATION (MIP)	121	121
	ELECT EQUIP—TACTICAL SURV. (TAC SURV)		
085	SENTINEL MODS	115,210	114,210
	Excess support costs		[–1,000]
086	NIGHT VISION DEVICES	236,604	160,604
	Insufficient justification (IVAS)		[–76,000]
088	SMALL TACTICAL OPTICAL RIFLE MOUNTED MLRF	22,623	22,623
090	INDIRECT FIRE PROTECTION FAMILY OF SYSTEMS	29,127	29,127
091	FAMILY OF WEAPON SIGHTS (FWS)	120,883	81,541
	Excess unit cost growth		[–39,342]
094	JOINT BATTLE COMMAND—PLATFORM (JBC-P)	265,667	240,167
	Program adjustment		[–25,500]
095	JOINT EFFECTS TARGETING SYSTEM (JETS)	69,720	44,720
	Program delay		[–25,000]
096	MOD OF IN-SVC EQUIP (LLDR)	6,044	6,044
097	COMPUTER BALLISTICS: LHMBC XM32	3,268	3,268
098	MORTAR FIRE CONTROL SYSTEM	13,199	13,199
099	MORTAR FIRE CONTROL SYSTEMS MODIFICATIONS	10,000	10,000
100	COUNTERFIRE RADARS	16,416	16,416
	ELECT EQUIP—TACTICAL C2 SYSTEMS		
102	FIRE SUPPORT C2 FAMILY	13,197	13,197
103	AIR & MSL DEFENSE PLANNING & CONTROL SYS	24,730	24,730
104	IAMD BATTLE COMMAND SYSTEM	29,629	29,629
105	LIFE CYCLE SOFTWARE SUPPORT (LCSS)	6,774	6,774
106	NETWORK MANAGEMENT INITIALIZATION AND SERVICE	24,448	24,448
107	MANEUVER CONTROL SYSTEM (MCS)	260	260
108	GLOBAL COMBAT SUPPORT SYSTEM-ARMY (GCSS-A)	17,962	17,962
109	INTEGRATED PERSONNEL AND PAY SYSTEM-ARMY (IPP	18,674	18,674
110	RECONNAISSANCE AND SURVEYING INSTRUMENT SET	11,000	11,000
111	MOD OF IN-SVC EQUIPMENT (ENFIRE)	7,317	15,317
	Program increase—land surveying systems		[8,000]
	ELECT EQUIP—AUTOMATION		
112	ARMY TRAINING MODERNIZATION	14,578	14,578
113	AUTOMATED DATA PROCESSING EQUIP	139,342	129,342
	Program decrease		[–5,000]
	Unjustified growth		[–5,000]
114	GENERAL FUND ENTERPRISE BUSINESS SYSTEMS FAM	15,802	15,802
115	HIGH PERF COMPUTING MOD PGM (HPCMP)	67,610	67,610
116	CONTRACT WRITING SYSTEM	15,000	15,000
117	CSS COMMUNICATIONS	24,700	24,700
118	RESERVE COMPONENT AUTOMATION SYS (RCAS)	27,879	27,879

SEC. 4101. PROCUREMENT
(In Thousands of Dollars)

Line	Item	FY 2020 Request	House Authorized
	ELECT EQUIP—AUDIO VISUAL SYS (A/V)		
120	ITEMS LESS THAN $5M (SURVEYING EQUIPMENT)	5,000	5,000
	ELECT EQUIP—SUPPORT		
122	BCT EMERGING TECHNOLOGIES	22,302	22,302
	CLASSIFIED PROGRAMS		
122A	CLASSIFIED PROGRAMS	11,910	11,910
	CHEMICAL DEFENSIVE EQUIPMENT		
126	CBRN DEFENSE	25,828	25,828
127	SMOKE & OBSCURANT FAMILY: SOF (NON AAO ITEM)	5,050	5,050
	BRIDGING EQUIPMENT		
128	TACTICAL BRIDGING	59,821	57,821
	Contract delays		[–2,000]
129	TACTICAL BRIDGE, FLOAT-RIBBON	57,661	57,661
130	BRIDGE SUPPLEMENTAL SET	17,966	17,966
131	COMMON BRIDGE TRANSPORTER (CBT) RECAP	43,155	43,155
	ENGINEER (NON-CONSTRUCTION) EQUIPMENT		
132	HANDHELD STANDOFF MINEFIELD DETECTION SYS-HST	7,570	7,570
133	GRND STANDOFF MINE DETECTN SYSM (GSTAMIDS)	37,025	37,025
135	HUSKY MOUNTED DETECTION SYSTEM (HMDS)	83,082	54,082
	Unjustified unit cost growth		[–29,000]
136	ROBOTIC COMBAT SUPPORT SYSTEM (RCSS)	2,000	2,000
137	EOD ROBOTICS SYSTEMS RECAPITALIZATION	23,115	23,115
138	ROBOTICS AND APPLIQUE SYSTEMS	101,056	101,056
140	RENDER SAFE SETS KITS OUTFITS	18,684	18,684
142	FAMILY OF BOATS AND MOTORS	8,245	6,245
	Unit cost growth		[–2,000]
	COMBAT SERVICE SUPPORT EQUIPMENT		
143	HEATERS AND ECU'S	7,336	7,336
145	PERSONNEL RECOVERY SUPPORT SYSTEM (PRSS)	4,281	4,281
146	GROUND SOLDIER SYSTEM	111,955	111,955
147	MOBILE SOLDIER POWER	31,364	29,364
	Unit cost growth		[–2,000]
149	FIELD FEEDING EQUIPMENT	1,673	1,673
150	CARGO AERIAL DEL & PERSONNEL PARACHUTE SYSTEM	43,622	43,622
151	FAMILY OF ENGR COMBAT AND CONSTRUCTION SETS	11,451	11,451
152	ITEMS LESS THAN $5M (ENG SPT)	5,167	5,167
	PETROLEUM EQUIPMENT		
154	DISTRIBUTION SYSTEMS, PETROLEUM & WATER	74,867	74,867
	MEDICAL EQUIPMENT		
155	COMBAT SUPPORT MEDICAL	68,225	68,225
	MAINTENANCE EQUIPMENT		
156	MOBILE MAINTENANCE EQUIPMENT SYSTEMS	55,053	55,053
157	ITEMS LESS THAN $5.0M (MAINT EQ)	5,608	5,608
	CONSTRUCTION EQUIPMENT		
161	HYDRAULIC EXCAVATOR	500	500
162	TRACTOR, FULL TRACKED	4,835	4,835
163	ALL TERRAIN CRANES	23,936	23,936
164	HIGH MOBILITY ENGINEER EXCAVATOR (HMEE)	27,188	27,188
166	CONST EQUIP ESP	34,790	34,790
167	ITEMS LESS THAN $5.0M (CONST EQUIP)	4,381	4,381
	RAIL FLOAT CONTAINERIZATION EQUIPMENT		
168	ARMY WATERCRAFT ESP	35,194	35,194
169	MANEUVER SUPPORT VESSEL (MSV)	14,185	14,185
170	ITEMS LESS THAN $5.0M (FLOAT/RAIL)	6,920	6,920
	GENERATORS		
171	GENERATORS AND ASSOCIATED EQUIP	58,566	58,566
172	TACTICAL ELECTRIC POWER RECAPITALIZATION	14,814	14,814
	MATERIAL HANDLING EQUIPMENT		
173	FAMILY OF FORKLIFTS	14,864	14,864
	TRAINING EQUIPMENT		
174	COMBAT TRAINING CENTERS SUPPORT	123,411	123,411
175	TRAINING DEVICES, NONSYSTEM	220,707	220,707
176	SYNTHETIC TRAINING ENVIRONMENT (STE)	20,749	15,749
	Program adjustment		[–5,000]
178	AVIATION COMBINED ARMS TACTICAL TRAINER	4,840	4,840
179	GAMING TECHNOLOGY IN SUPPORT OF ARMY TRAINING	15,463	15,463
	TEST MEASURE AND DIG EQUIPMENT (TMD)		
180	CALIBRATION SETS EQUIPMENT	3,030	3,030
181	INTEGRATED FAMILY OF TEST EQUIPMENT (IFTE)	76,980	76,980
182	TEST EQUIPMENT MODERNIZATION (TEMOD)	16,415	13,415
	Historical underexecution		[–3,000]
	OTHER SUPPORT EQUIPMENT		
184	RAPID EQUIPPING SOLDIER SUPPORT EQUIPMENT	9,877	9,877
185	PHYSICAL SECURITY SYSTEMS (OPA3)	82,158	82,158
186	BASE LEVEL COMMON EQUIPMENT	15,340	15,340
187	MODIFICATION OF IN-SVC EQUIPMENT (OPA–3)	50,458	50,458
189	BUILDING, PRE-FAB, RELOCATABLE	14,400	14,400
190	SPECIAL EQUIPMENT FOR USER TESTING	9,821	9,821

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Line	Item	FY 2020 Request	House Authorized
	OPA2		
192	INITIAL SPARES—C&E	9,757	9,757
	TOTAL OTHER PROCUREMENT, ARMY	**7,451,301**	**7,292,799**
	AIRCRAFT PROCUREMENT, NAVY		
	COMBAT AIRCRAFT		
001	F/A–18E/F (FIGHTER) HORNET	1,748,934	1,730,934
	ECO and ancillary equipment excess growth		[–18,000]
002	F/A–18E/F (FIGHTER) HORNET	55,128	51,128
	Excess engine cost growth		[–4,000]
003	JOINT STRIKE FIGHTER CV	2,272,301	2,162,301
	Target cost savings		[–110,000]
004	JOINT STRIKE FIGHTER CV	339,053	339,053
005	JSF STOVL	1,342,035	1,256,035
	Target cost savings		[–86,000]
006	JSF STOVL	291,804	291,804
007	CH–53K (HEAVY LIFT)	807,876	807,876
008	CH–53K (HEAVY LIFT)	215,014	215,014
009	V–22 (MEDIUM LIFT)	966,666	1,184,766
	Program increase		[248,100]
	Support cost growth		[–30,000]
010	V–22 (MEDIUM LIFT)	27,104	27,104
011	H–1 UPGRADES (UH–1Y/AH–1Z)	62,003	62,003
013	MH–60R (MYP)	894	894
014	P–8A POSEIDON	1,206,701	1,636,601
	Contract negotiations savings		[–42,900]
	Line shutdown costs early to need		[–68,400]
	Navy unfunded priority		[541,200]
016	E–2D ADV HAWKEYE	744,484	896,784
	GFE excess cost growth		[–3,500]
	Navy unfunded priority		[173,000]
	NRE excess cost growth		[–17,200]
017	E–2D ADV HAWKEYE	190,204	190,204
	TRAINER AIRCRAFT		
019	ADVANCED HELICOPTER TRAINING SYSTEM	261,160	261,160
	OTHER AIRCRAFT		
020	KC–130J	240,840	221,840
	Unit cost growth		[–19,000]
021	KC–130J	66,061	66,061
022	F–5	39,676	39,676
023	MQ–4 TRITON	473,134	448,134
	PGSE excess cost growth		[–25,000]
024	MQ–4 TRITON	20,139	20,139
025	MQ–8 UAV	44,957	44,957
026	STUASL0 UAV	43,819	43,819
028	VH–92A EXECUTIVE HELO	658,067	658,067
	MODIFICATION OF AIRCRAFT		
029	AEA SYSTEMS	44,470	44,470
030	AV–8 SERIES	39,472	39,472
031	ADVERSARY	3,415	3,415
032	F–18 SERIES	1,207,089	1,138,089
	Accelerate RWR modernization		[10,000]
	Early to need		[–79,000]
033	H–53 SERIES	68,385	68,385
034	MH–60 SERIES	149,797	152,297
	Demonstrate alternative low frequency active sonars		[2,500]
035	H–1 SERIES	114,059	114,059
036	EP–3 SERIES	8,655	8,655
038	E–2 SERIES	117,059	117,059
039	TRAINER A/C SERIES	5,616	5,616
040	C–2A	15,747	15,747
041	C–130 SERIES	122,671	122,671
042	FEWSG	509	509
043	CARGO/TRANSPORT A/C SERIES	8,767	8,767
044	E–6 SERIES	169,827	169,827
045	EXECUTIVE HELICOPTERS SERIES	8,933	8,933
047	T–45 SERIES	186,022	184,314
	NRE previously funded		[–1,708]
048	POWER PLANT CHANGES	16,136	16,136
049	JPATS SERIES	21,824	21,824
050	AVIATION LIFE SUPPORT MODS	39,762	39,762
051	COMMON ECM EQUIPMENT	162,839	159,565
	Program decrease		[–3,274]
052	COMMON AVIONICS CHANGES	102,107	75,107
	Computing and displays concurrency and equipment growth early to need		[–27,000]
053	COMMON DEFENSIVE WEAPON SYSTEM	2,100	2,100
054	ID SYSTEMS	41,437	33,637
	Unjustified unit cost growth		[–7,800]

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Line	Item	FY 2020 Request	House Authorized
055	P–8 SERIES	107,539	107,539
056	MAGTF EW FOR AVIATION	26,536	26,536
057	MQ–8 SERIES	34,686	34,686
058	V–22 (TILT/ROTOR ACFT) OSPREY	325,367	325,367
059	NEXT GENERATION JAMMER (NGJ)	6,223	6,223
060	F–35 STOVL SERIES	65,585	65,585
061	F–35 CV SERIES	15,358	15,358
062	QRC	165,016	146,558
	Program decrease		[–18,458]
063	MQ–4 SERIES	27,994	27,994
064	RQ–21 SERIES	66,282	66,282
	AIRCRAFT SPARES AND REPAIR PARTS		
067	SPARES AND REPAIR PARTS	2,166,788	2,102,788
	MQ–4 Triton spares excess growth		[–64,000]
	AIRCRAFT SUPPORT EQUIP & FACILITIES		
068	COMMON GROUND EQUIPMENT	491,025	470,025
	Other flight training previously funded		[–21,000]
069	AIRCRAFT INDUSTRIAL FACILITIES	71,335	71,335
070	WAR CONSUMABLES	41,086	32,086
	BRU–61 previously funded		[–9,000]
072	SPECIAL SUPPORT EQUIPMENT	135,740	115,740
	Program decrease		[–20,000]
073	FIRST DESTINATION TRANSPORTATION	892	892
	TOTAL AIRCRAFT PROCUREMENT, NAVY	**18,522,204**	**18,821,764**
	WEAPONS PROCUREMENT, NAVY		
	MODIFICATION OF MISSILES		
001	TRIDENT II MODS	1,177,251	1,157,651
	W76–2 low-yield deployment		[–19,600]
	SUPPORT EQUIPMENT & FACILITIES		
002	MISSILE INDUSTRIAL FACILITIES	7,142	7,142
	STRATEGIC MISSILES		
003	TOMAHAWK	386,730	386,730
	TACTICAL MISSILES		
004	AMRAAM	224,502	191,502
	Unit cost growth		[–33,000]
005	SIDEWINDER	119,456	119,456
007	STANDARD MISSILE	404,523	379,523
	SM–6 multi-year procurement savings		[–25,000]
008	STANDARD MISSILE	96,085	96,085
009	SMALL DIAMETER BOMB II	118,466	118,466
010	RAM	106,765	106,765
012	HELLFIRE	1,525	1,525
015	AERIAL TARGETS	145,880	145,880
016	DRONES AND DECOYS	20,000	20,000
017	OTHER MISSILE SUPPORT	3,388	3,388
018	LRASM	143,200	168,200
	Navy unfunded priority		[25,000]
019	LCS OTH MISSILE	38,137	38,137
	MODIFICATION OF MISSILES		
020	ESSM	128,059	118,059
	Production support excess to need		[–10,000]
021	HARPOON MODS	25,447	25,447
022	HARM MODS	183,740	183,740
023	STANDARD MISSILES MODS	22,500	22,500
	SUPPORT EQUIPMENT & FACILITIES		
024	WEAPONS INDUSTRIAL FACILITIES	1,958	1,958
025	FLEET SATELLITE COMM FOLLOW-ON	67,380	67,380
	ORDNANCE SUPPORT EQUIPMENT		
027	ORDNANCE SUPPORT EQUIPMENT	109,427	109,427
	TORPEDOES AND RELATED EQUIP		
028	SSTD	5,561	5,561
029	MK–48 TORPEDO	114,000	130,000
	Program increase		[16,000]
030	ASW TARGETS	15,095	15,095
	MOD OF TORPEDOES AND RELATED EQUIP		
031	MK–54 TORPEDO MODS	119,453	111,453
	HAAWC cost growth		[–8,000]
032	MK–48 TORPEDO ADCAP MODS	39,508	39,508
033	QUICKSTRIKE MINE	5,183	5,183
	SUPPORT EQUIPMENT		
034	TORPEDO SUPPORT EQUIPMENT	79,028	79,028
035	ASW RANGE SUPPORT	3,890	3,890
	DESTINATION TRANSPORTATION		
036	FIRST DESTINATION TRANSPORTATION	3,803	3,803
	GUNS AND GUN MOUNTS		
037	SMALL ARMS AND WEAPONS	14,797	14,797
	MODIFICATION OF GUNS AND GUN MOUNTS		

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Line	Item	FY 2020 Request	House Authorized
038	CIWS MODS	44,126	0
	Unjustified OCO request		[–44,126]
039	COAST GUARD WEAPONS	44,980	44,980
040	GUN MOUNT MODS	66,376	66,376
041	LCS MODULE WEAPONS	14,585	0
	Program decrease		[–14,585]
043	AIRBORNE MINE NEUTRALIZATION SYSTEMS	7,160	7,160
	SPARES AND REPAIR PARTS		
045	SPARES AND REPAIR PARTS	126,138	126,138
	TOTAL WEAPONS PROCUREMENT, NAVY	**4,235,244**	**4,121,933**
	PROCUREMENT OF AMMO, NAVY & MC		
	NAVY AMMUNITION		
001	GENERAL PURPOSE BOMBS	36,028	20,028
	Fuze contract delay and unit cost growth		[–16,000]
002	JDAM	70,413	62,913
	JDAM tail kit unit cost growth		[–7,500]
003	AIRBORNE ROCKETS, ALL TYPES	31,756	22,256
	Unit cost growth		[–9,500]
004	MACHINE GUN AMMUNITION	4,793	4,793
005	PRACTICE BOMBS	34,708	27,208
	Q1300 LGTR unit cost growth		[–7,500]
006	CARTRIDGES & CART ACTUATED DEVICES	45,738	38,738
	Contract and schedule delays		[–7,000]
007	AIR EXPENDABLE COUNTERMEASURES	77,301	67,801
	Unit cost growth		[–9,500]
008	JATOS	7,262	7,262
009	5 INCH/54 GUN AMMUNITION	22,594	22,594
010	INTERMEDIATE CALIBER GUN AMMUNITION	37,193	37,193
011	OTHER SHIP GUN AMMUNITION	39,491	29,491
	CART 20MM contract award delay		[–10,000]
012	SMALL ARMS & LANDING PARTY AMMO	47,896	47,896
013	PYROTECHNIC AND DEMOLITION	10,621	10,621
015	AMMUNITION LESS THAN $5 MILLION	2,386	2,386
	MARINE CORPS AMMUNITION		
016	MORTARS	55,543	50,543
	Prior year underexecution		[–5,000]
017	DIRECT SUPPORT MUNITIONS	131,765	131,765
018	INFANTRY WEAPONS AMMUNITION	78,056	74,556
	Underexecution and schedule delays		[–3,500]
019	COMBAT SUPPORT MUNITIONS	40,048	34,048
	Unit cost growth		[–6,000]
020	AMMO MODERNIZATION	14,325	14,325
021	ARTILLERY MUNITIONS	188,876	167,476
	DA 54 contract delay		[–21,400]
022	ITEMS LESS THAN $5 MILLION	4,521	4,521
	TOTAL PROCUREMENT OF AMMO, NAVY & MC	**981,314**	**878,414**
	SHIPBUILDING AND CONVERSION, NAVY		
	FLEET BALLISTIC MISSILE SHIPS		
001	OHIO REPLACEMENT SUBMARINE	1,698,907	1,823,907
	Submarine supplier development		[125,000]
	OTHER WARSHIPS		
002	CARRIER REPLACEMENT PROGRAM	2,347,000	1,952,000
	Basic construction/conversion excess cost growth		[–302,000]
	Propulsion equipment excess cost growth		[–93,000]
003	VIRGINIA CLASS SUBMARINE	7,155,946	6,605,946
	Block V MYP savings redirected to fund USS Boise, USS Hartford, and USS Columbus availabilities.		[–550,000]
004	VIRGINIA CLASS SUBMARINE	2,769,552	2,769,552
005	CVN REFUELING OVERHAULS	647,926	453,926
	CVN–74 RCOH basic construction/conversion excess cost growth		[–165,000]
	CVN–74 RCOH ordnance excess cost growth		[–46,000]
	CVN–75 RCOH restoration		[17,000]
007	DDG 1000	155,944	155,944
008	DDG–51	5,099,295	5,013,295
	Basic ship construction excess cost growth		[–86,000]
009	DDG–51	224,028	224,028
011	FFG-FRIGATE	1,281,177	1,266,177
	Change order early to need		[–15,000]
	AMPHIBIOUS SHIPS		
012	LPD FLIGHT II		100,000
	Transfer from line 13		[100,000]
013	LPD FLIGHT II	247,100	147,100
	Transfer to line 12		[–100,000]
017	EXPEDITIONARY FAST TRANSPORT (EPF)		49,000
	Medical transport modification for EPF–14 Navy unfunded priority		[49,000]
	AUXILIARIES, CRAFT AND PRIOR YR PROGRAM COST		

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Line	Item	FY 2020 Request	House Authorized
018	TAO FLEET OILER	981,215	607,215
	Full funding early to need		[–447,000]
	Transfer from Line 19		[73,000]
019	TAO FLEET OILER	73,000	0
	Transfer to Line 18		[–73,000]
020	TOWING, SALVAGE, AND RESCUE SHIP (ATS)	150,282	150,282
022	LCU 1700	85,670	85,670
023	OUTFITTING	754,679	643,554
	ESB–9 Outfitting early to need		[–11,125]
	Excess cost growth		[–100,000]
024	SHIP TO SHORE CONNECTOR		84,800
	Program increase		[130,000]
	Program decrease		[–45,200]
025	SERVICE CRAFT	56,289	56,289
028	COMPLETION OF PY SHIPBUILDING PROGRAMS	55,700	25,700
	ESB change order prior year carryover		[–30,000]
	TOTAL SHIPBUILDING AND CONVERSION, NAVY	**23,783,710**	**22,214,385**
	OTHER PROCUREMENT, NAVY		
	SHIP PROPULSION EQUIPMENT		
001	SURFACE POWER EQUIPMENT	14,490	14,490
	GENERATORS		
002	SURFACE COMBATANT HM&E	31,583	23,503
	Excess cost growth		[–8,080]
	NAVIGATION EQUIPMENT		
003	OTHER NAVIGATION EQUIPMENT	77,404	60,830
	Excess cost growth		[–16,574]
	OTHER SHIPBOARD EQUIPMENT		
004	SUB PERISCOPE, IMAGING AND SUPT EQUIP PROG	160,803	160,803
005	DDG MOD	566,140	566,140
006	FIREFIGHTING EQUIPMENT	18,223	18,223
007	COMMAND AND CONTROL SWITCHBOARD	2,086	2,086
008	LHA/LHD MIDLIFE	95,651	64,651
	Excess cost growth		[–31,000]
009	POLLUTION CONTROL EQUIPMENT	23,910	23,910
010	SUBMARINE SUPPORT EQUIPMENT	44,895	25,300
	Acoustic superiority early to need		[–11,855]
	Excess cost growth		[–7,740]
011	VIRGINIA CLASS SUPPORT EQUIPMENT	28,465	28,465
012	LCS CLASS SUPPORT EQUIPMENT	19,426	19,426
013	SUBMARINE BATTERIES	26,290	26,290
014	LPD CLASS SUPPORT EQUIPMENT	46,945	46,945
015	DDG 1000 CLASS SUPPORT EQUIPMENT	9,930	9,930
016	STRATEGIC PLATFORM SUPPORT EQUIP	14,331	14,331
017	DSSP EQUIPMENT	2,909	2,909
018	CG MODERNIZATION	193,990	193,990
019	LCAC	3,392	3,392
020	UNDERWATER EOD PROGRAMS	71,240	71,240
021	ITEMS LESS THAN $5 MILLION	102,543	102,543
022	CHEMICAL WARFARE DETECTORS	2,961	2,961
023	SUBMARINE LIFE SUPPORT SYSTEM	6,635	6,635
	REACTOR PLANT EQUIPMENT		
024	REACTOR POWER UNITS	5,340	5,340
025	REACTOR COMPONENTS	465,726	465,726
	OCEAN ENGINEERING		
026	DIVING AND SALVAGE EQUIPMENT	11,854	10,706
	Excess cost growth		[–1,148]
	SMALL BOATS		
027	STANDARD BOATS	79,102	73,967
	Excess cost growth		[–5,135]
	PRODUCTION FACILITIES EQUIPMENT		
028	OPERATING FORCES IPE	202,238	202,238
	OTHER SHIP SUPPORT		
029	LCS COMMON MISSION MODULES EQUIPMENT	51,553	33,237
	Excess cost growth		[–18,316]
030	LCS MCM MISSION MODULES	197,129	77,129
	Excess cost growth		[–120,000]
031	LCS ASW MISSION MODULES	27,754	25,254
	Demonstrate alternate low frequency active sonar		[2,500]
	Excess cost growth		[–5,000]
032	LCS SUW MISSION MODULES	26,566	14,566
	Excess cost growth		[–12,000]
033	LCS IN-SERVICE MODERNIZATION	84,972	84,972
034	SMALL & MEDIUM UUV	40,547	10,601
	Early to need		[–29,946]
	LOGISTIC SUPPORT		
035	LSD MIDLIFE & MODERNIZATION	40,269	40,269
	SHIP SONARS		

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Line	Item	FY 2020 Request	House Authorized
036	SPQ–9B RADAR	26,195	26,195
037	AN/SQQ–89 SURF ASW COMBAT SYSTEM	125,237	125,237
038	SSN ACOUSTIC EQUIPMENT	366,968	354,968
	Low cost conformal array contract delay		[–12,000]
039	UNDERSEA WARFARE SUPPORT EQUIPMENT	8,967	8,967
	ASW ELECTRONIC EQUIPMENT		
040	SUBMARINE ACOUSTIC WARFARE SYSTEM	23,545	23,545
041	SSTD	12,439	12,439
042	FIXED SURVEILLANCE SYSTEM	128,441	128,441
043	SURTASS	21,923	21,923
	ELECTRONIC WARFARE EQUIPMENT		
044	AN/SLQ–32	420,154	420,154
	RECONNAISSANCE EQUIPMENT		
045	SHIPBOARD IW EXPLOIT	194,758	194,758
046	AUTOMATED IDENTIFICATION SYSTEM (AIS)	5,368	5,368
	OTHER SHIP ELECTRONIC EQUIPMENT		
047	COOPERATIVE ENGAGEMENT CAPABILITY	35,128	35,128
048	NAVAL TACTICAL COMMAND SUPPORT SYSTEM (NTCSS)	15,154	15,154
049	ATDLS	52,753	52,753
050	NAVY COMMAND AND CONTROL SYSTEM (NCCS)	3,390	3,390
051	MINESWEEPING SYSTEM REPLACEMENT	19,448	19,448
052	SHALLOW WATER MCM	8,730	8,730
053	NAVSTAR GPS RECEIVERS (SPACE)	32,674	32,674
054	AMERICAN FORCES RADIO AND TV SERVICE	2,617	2,617
055	STRATEGIC PLATFORM SUPPORT EQUIP	7,973	7,973
	AVIATION ELECTRONIC EQUIPMENT		
056	ASHORE ATC EQUIPMENT	72,406	72,406
057	AFLOAT ATC EQUIPMENT	67,410	67,410
058	ID SYSTEMS	26,059	15,464
	OE–120/UPX antenna insufficient budget justification		[–10,595]
059	JOINT PRECISION APPROACH AND LANDING SYSTEM	92,695	61,348
	Early to need		[–31,347]
060	NAVAL MISSION PLANNING SYSTEMS	15,296	15,296
	OTHER SHORE ELECTRONIC EQUIPMENT		
061	TACTICAL/MOBILE C4I SYSTEMS	36,226	36,226
062	DCGS-N	21,788	21,788
063	CANES	426,654	396,654
	Program decrease		[–30,000]
064	RADIAC	6,450	6,450
065	CANES-INTELL	52,713	52,713
066	GPETE	13,028	13,028
067	MASF	5,193	5,193
068	INTEG COMBAT SYSTEM TEST FACILITY	6,028	6,028
069	EMI CONTROL INSTRUMENTATION	4,209	4,209
070	ITEMS LESS THAN $5 MILLION	168,436	151,593
	Excess cost growth		[–16,843]
	SHIPBOARD COMMUNICATIONS		
071	SHIPBOARD TACTICAL COMMUNICATIONS	55,853	55,853
072	SHIP COMMUNICATIONS AUTOMATION	137,861	117,861
	STACC cost growth		[–20,000]
073	COMMUNICATIONS ITEMS UNDER $5M	35,093	35,093
	SUBMARINE COMMUNICATIONS		
074	SUBMARINE BROADCAST SUPPORT	50,833	50,833
075	SUBMARINE COMMUNICATION EQUIPMENT	69,643	60,643
	Buoy shape improvement unjustified request		[–9,000]
	SATELLITE COMMUNICATIONS		
076	SATELLITE COMMUNICATIONS SYSTEMS	45,841	45,841
077	NAVY MULTIBAND TERMINAL (NMT)	88,021	88,021
	SHORE COMMUNICATIONS		
078	JOINT COMMUNICATIONS SUPPORT ELEMENT (JCSE)	4,293	4,293
	CRYPTOGRAPHIC EQUIPMENT		
079	INFO SYSTEMS SECURITY PROGRAM (ISSP)	166,540	166,540
080	MIO INTEL EXPLOITATION TEAM	968	968
	CRYPTOLOGIC EQUIPMENT		
081	CRYPTOLOGIC COMMUNICATIONS EQUIP	13,090	13,090
	OTHER ELECTRONIC SUPPORT		
083	COAST GUARD EQUIPMENT	61,370	61,370
	SONOBUOYS		
085	SONOBUOYS—ALL TYPES	260,644	296,344
	Navy unfunded priority		[35,700]
	AIRCRAFT SUPPORT EQUIPMENT		
086	MINOTAUR	5,000	5,000
087	WEAPONS RANGE SUPPORT EQUIPMENT	101,843	94,843
	Excess cost growth		[–7,000]
088	AIRCRAFT SUPPORT EQUIPMENT	145,601	112,181
	Excess cost growth		[–20,000]
	Program decrease		[–13,420]
089	ADVANCED ARRESTING GEAR (AAG)	4,725	4,725

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Line	Item	FY 2020 Request	House Authorized
090	METEOROLOGICAL EQUIPMENT	14,687	14,687
092	LEGACY AIRBORNE MCM	19,250	19,250
093	LAMPS EQUIPMENT	792	792
094	AVIATION SUPPORT EQUIPMENT	55,415	52,415
	Contract delay		[–3,000]
095	UMCS-UNMAN CARRIER AVIATION(UCA)MISSION CNTRL	32,668	32,668
	SHIP GUN SYSTEM EQUIPMENT		
096	SHIP GUN SYSTEMS EQUIPMENT	5,451	5,451
	SHIP MISSILE SYSTEMS EQUIPMENT		
097	HARPOON SUPPORT EQUIPMENT	1,100	1,100
098	SHIP MISSILE SUPPORT EQUIPMENT	228,104	243,304
	Excess cost growth		[–25,000]
	Program increase		[40,200]
099	TOMAHAWK SUPPORT EQUIPMENT	78,593	78,593
	FBM SUPPORT EQUIPMENT		
100	STRATEGIC MISSILE SYSTEMS EQUIP	280,510	280,510
	ASW SUPPORT EQUIPMENT		
101	SSN COMBAT CONTROL SYSTEMS	148,547	138,547
	Excess cost growth		[–10,000]
102	ASW SUPPORT EQUIPMENT	21,130	21,130
	OTHER ORDNANCE SUPPORT EQUIPMENT		
103	EXPLOSIVE ORDNANCE DISPOSAL EQUIP	15,244	15,244
104	ITEMS LESS THAN $5 MILLION	5,071	5,071
	OTHER EXPENDABLE ORDNANCE		
105	ANTI-SHIP MISSILE DECOY SYSTEM	41,962	41,962
106	SUBMARINE TRAINING DEVICE MODS	75,057	75,057
107	SURFACE TRAINING EQUIPMENT	233,175	189,253
	LCS trainer equipment early to need		[–43,922]
	CIVIL ENGINEERING SUPPORT EQUIPMENT		
108	PASSENGER CARRYING VEHICLES	4,562	4,562
109	GENERAL PURPOSE TRUCKS	10,974	10,974
110	CONSTRUCTION & MAINTENANCE EQUIP	43,191	43,191
111	FIRE FIGHTING EQUIPMENT	21,142	11,642
	Contract delays		[–9,500]
112	TACTICAL VEHICLES	33,432	32,032
	JLTV contract delay		[–1,400]
114	POLLUTION CONTROL EQUIPMENT	2,633	2,633
115	ITEMS UNDER $5 MILLION	53,467	53,467
116	PHYSICAL SECURITY VEHICLES	1,173	1,173
	SUPPLY SUPPORT EQUIPMENT		
117	SUPPLY EQUIPMENT	16,730	16,730
118	FIRST DESTINATION TRANSPORTATION	5,389	5,389
119	SPECIAL PURPOSE SUPPLY SYSTEMS	654,674	654,674
	TRAINING DEVICES		
120	TRAINING SUPPORT EQUIPMENT	3,633	3,633
121	TRAINING AND EDUCATION EQUIPMENT	97,636	82,536
	Reduction in one Training Support Vessel		[–15,100]
	COMMAND SUPPORT EQUIPMENT		
122	COMMAND SUPPORT EQUIPMENT	66,102	50,102
	Prior year underexecution		[–16,000]
123	MEDICAL SUPPORT EQUIPMENT	3,633	3,633
125	NAVAL MIP SUPPORT EQUIPMENT	6,097	6,097
126	OPERATING FORCES SUPPORT EQUIPMENT	16,905	16,905
127	C4ISR EQUIPMENT	30,146	30,146
128	ENVIRONMENTAL SUPPORT EQUIPMENT	21,986	21,986
129	PHYSICAL SECURITY EQUIPMENT	160,046	160,046
130	ENTERPRISE INFORMATION TECHNOLOGY	56,899	56,899
	OTHER		
133	NEXT GENERATION ENTERPRISE SERVICE	122,832	122,832
	CLASSIFIED PROGRAMS		
133A	CLASSIFIED PROGRAMS	16,346	16,346
	SPARES AND REPAIR PARTS		
134	SPARES AND REPAIR PARTS	375,608	352,140
	JPALS spares early to need		[–8,137]
	LCS spares early to need		[–15,331]
	TOTAL OTHER PROCUREMENT, NAVY	**9,652,956**	**9,146,967**
	PROCUREMENT, MARINE CORPS		
	TRACKED COMBAT VEHICLES		
001	AAV7A1 PIP	39,495	39,495
002	AMPHIBIOUS COMBAT VEHICLE 1.1	317,935	313,135
	Excess engineering change orders		[–4,800]
003	LAV PIP	60,734	60,734
	ARTILLERY AND OTHER WEAPONS		
004	155MM LIGHTWEIGHT TOWED HOWITZER	25,065	25,065
005	ARTILLERY WEAPONS SYSTEM	100,002	90,002
	Equipment previously funded and cost growth		[–10,000]
006	WEAPONS AND COMBAT VEHICLES UNDER $5 MILLION	31,945	31,945

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Line	Item	FY 2020 Request	House Authorized
	OTHER SUPPORT		
007	MODIFICATION KITS	22,760	22,760
	GUIDED MISSILES		
008	GROUND BASED AIR DEFENSE	175,998	175,998
009	ANTI-ARMOR MISSILE-JAVELIN	20,207	20,207
010	FAMILY ANTI-ARMOR WEAPON SYSTEMS (FOAAWS)	21,913	21,913
011	ANTI-ARMOR MISSILE-TOW	60,501	60,501
012	GUIDED MLRS ROCKET (GMLRS)	29,062	28,062
	Unit cost discrepancy		[–1,000]
	COMMAND AND CONTROL SYSTEMS		
013	COMMON AVIATION COMMAND AND CONTROL SYSTEM (C	37,203	32,203
	AN/MRQ–13 communications subsystems upgrades unjustified growth		[–5,000]
	REPAIR AND TEST EQUIPMENT		
014	REPAIR AND TEST EQUIPMENT	55,156	55,156
	OTHER SUPPORT (TEL)		
015	MODIFICATION KITS	4,945	4,945
	COMMAND AND CONTROL SYSTEM (NON-TEL)		
016	ITEMS UNDER $5 MILLION (COMM & ELEC)	112,124	83,124
	Unit cost growth		[–29,000]
017	AIR OPERATIONS C2 SYSTEMS	17,408	17,408
	RADAR + EQUIPMENT (NON-TEL)		
018	RADAR SYSTEMS	329	329
019	GROUND/AIR TASK ORIENTED RADAR (G/ATOR)	273,022	273,022
	INTELL/COMM EQUIPMENT (NON-TEL)		
021	GCSS-MC	4,484	4,484
022	FIRE SUPPORT SYSTEM	35,488	35,488
023	INTELLIGENCE SUPPORT EQUIPMENT	56,896	54,396
	Unjustified growth		[–2,500]
025	UNMANNED AIR SYSTEMS (INTEL)	34,711	34,711
026	DCGS-MC	32,562	32,562
	OTHER SUPPORT (NON-TEL)		
030	NEXT GENERATION ENTERPRISE NETWORK (NGEN)	114,901	114,901
031	COMMON COMPUTER RESOURCES	51,094	51,094
032	COMMAND POST SYSTEMS	108,897	108,897
033	RADIO SYSTEMS	227,320	212,320
	Cost growth and early to need		[–15,000]
034	COMM SWITCHING & CONTROL SYSTEMS	31,685	23,685
	ECP small form factor previously funded		[–8,000]
035	COMM & ELEC INFRASTRUCTURE SUPPORT	21,140	21,140
036	CYBERSPACE ACTIVITIES	27,632	27,632
	CLASSIFIED PROGRAMS		
036A	CLASSIFIED PROGRAMS	5,535	5,535
	ADMINISTRATIVE VEHICLES		
037	COMMERCIAL CARGO VEHICLES	28,913	28,913
	TACTICAL VEHICLES		
038	MOTOR TRANSPORT MODIFICATIONS	19,234	19,234
039	JOINT LIGHT TACTICAL VEHICLE	558,107	556,107
	ECP previously funded		[–2,000]
040	FAMILY OF TACTICAL TRAILERS	2,693	2,693
	ENGINEER AND OTHER EQUIPMENT		
041	ENVIRONMENTAL CONTROL EQUIP ASSORT	495	495
042	TACTICAL FUEL SYSTEMS	52	52
043	POWER EQUIPMENT ASSORTED	22,441	22,441
044	AMPHIBIOUS SUPPORT EQUIPMENT	7,101	7,101
045	EOD SYSTEMS	44,700	44,700
	MATERIALS HANDLING EQUIPMENT		
046	PHYSICAL SECURITY EQUIPMENT	15,404	15,404
	GENERAL PROPERTY		
047	FIELD MEDICAL EQUIPMENT	2,898	2,898
048	TRAINING DEVICES	149,567	126,567
	ODS unjustified request		[–23,000]
049	FAMILY OF CONSTRUCTION EQUIPMENT	35,622	35,622
050	ULTRA-LIGHT TACTICAL VEHICLE (ULTV)	647	647
	OTHER SUPPORT		
051	ITEMS LESS THAN $5 MILLION	10,956	10,956
	SPARES AND REPAIR PARTS		
052	SPARES AND REPAIR PARTS	33,470	33,470
	TOTAL PROCUREMENT, MARINE CORPS	**3,090,449**	**2,990,149**
	AIRCRAFT PROCUREMENT, AIR FORCE		
	TACTICAL FORCES		
001	F–35	4,274,359	5,126,409
	Program increase		[1,042,800]
	Target cost savings		[–190,750]
002	F–35	655,500	655,500
003	F–15E	1,050,000	941,000
	Unjustified non-recurring engineering		[–109,000]
	TACTICAL AIRLIFT		

SEC. 4101. PROCUREMENT
(In Thousands of Dollars)

Line	Item	FY 2020 Request	House Authorized
005	KC–46A MDAP	2,234,529	2,199,705
	Excess to need		[–34,824]
	OTHER AIRLIFT		
006	C–130J	12,156	404,156
	Program increase		[392,000]
008	MC–130J	871,207	871,207
009	MC–130J	40,000	40,000
	HELICOPTERS		
010	COMBAT RESCUE HELICOPTER	884,235	876,235
	Excess to need		[–8,000]
	MISSION SUPPORT AIRCRAFT		
011	C–37A	161,000	161,000
012	CIVIL AIR PATROL A/C	2,767	2,767
	OTHER AIRCRAFT		
014	TARGET DRONES	130,837	130,837
015	COMPASS CALL	114,095	114,095
017	MQ–9	189,205	313,005
	Program increase		[137,800]
	Unit cost growth		[–14,000]
	STRATEGIC AIRCRAFT		
019	B–2A	9,582	9,582
020	B–1B	22,111	22,111
021	B–52	69,648	69,648
022	LARGE AIRCRAFT INFRARED COUNTERMEASURES	43,758	43,758
	TACTICAL AIRCRAFT		
023	A–10	132,069	132,069
024	E–11 BACN/HAG	70,027	90,027
	Aircraft increase		[20,000]
025	F–15	481,073	480,443
	F–15C MUOS ahead of need		[–630]
026	F–16	234,782	234,782
028	F–22A	323,597	323,597
030	F–35 MODIFICATIONS	343,590	343,590
031	F–15 EPAW	149,047	25,047
	Prior-year carryover		[–124,000]
032	INCREMENT 3.2B	20,213	20,213
033	KC–46A MDAP	10,213	3,639
	Excess to need		[–6,574]
	AIRLIFT AIRCRAFT		
034	C–5	73,550	73,550
036	C–17A	60,244	60,244
037	C–21	216	216
038	C–32A	11,511	11,511
039	C–37A	435	435
	TRAINER AIRCRAFT		
040	GLIDER MODS	138	138
041	T–6	11,826	11,826
042	T–1	26,787	26,787
043	T–38	37,341	45,041
	T–38 A/B ejection seat safety		[7,700]
	OTHER AIRCRAFT		
044	U–2 MODS	86,896	119,896
	Increase for U–2 enhancements		[33,000]
045	KC–10A (ATCA)	2,108	2,108
046	C–12	3,021	3,021
047	VC–25A MOD	48,624	48,624
048	C–40	256	256
049	C–130	52,066	186,066
	3.5 Engine Enhancement Package		[79,000]
	NP–2000 prop blade upgrades		[55,000]
050	C–130J MODS	141,686	141,686
051	C–135	124,491	124,491
053	COMPASS CALL	110,754	110,754
054	COMBAT FLIGHT INSPECTION—CFIN	508	508
055	RC–135	227,673	227,673
056	E–3	216,299	216,299
057	E–4	58,477	58,477
058	E–8	28,778	56,778
	Increase for re-engining		[28,000]
059	AIRBORNE WARNING AND CNTRL SYS (AWACS) 40/45	36,000	36,000
060	FAMILY OF BEYOND LINE-OF-SIGHT TERMINALS	7,910	7,910
061	H–1	3,817	3,817
062	H–60	20,879	20,879
063	RQ–4 MODS	1,704	1,704
064	HC/MC–130 MODIFICATIONS	51,482	51,482
065	OTHER AIRCRAFT	50,098	50,098
066	MQ–9 MODS	383,594	251,594
	Production rate adjustment of DAS–4 sensor		[–132,000]

SEC. 4101. PROCUREMENT
(In Thousands of Dollars)

Line	Item	FY 2020 Request	House Authorized
068	CV–22 MODS	65,348	65,348
	AIRCRAFT SPARES AND REPAIR PARTS		
069	INITIAL SPARES/REPAIR PARTS	708,230	584,830
	Unjustified F–15C requirements		[–123,400]
	COMMON SUPPORT EQUIPMENT		
072	AIRCRAFT REPLACEMENT SUPPORT EQUIP	84,938	84,938
	POST PRODUCTION SUPPORT		
073	B–2A	1,403	1,403
074	B–2B	42,234	42,234
075	B–52	4,641	4,641
076	C–17A	124,805	124,805
079	F–15	2,589	2,589
081	F–16	15,348	14,748
	Line shutdown early to need		[–600]
084	RQ–4 POST PRODUCTION CHARGES	47,246	47,246
	INDUSTRIAL PREPAREDNESS		
086	INDUSTRIAL RESPONSIVENESS	17,705	17,705
	WAR CONSUMABLES		
087	WAR CONSUMABLES	32,102	32,102
	OTHER PRODUCTION CHARGES		
088	OTHER PRODUCTION CHARGES	1,194,728	1,106,728
	F–22 NGEN lab excess		[–72,000]
	RQ–4 delayed obligations		[–16,000]
	CLASSIFIED PROGRAMS		
090A	CLASSIFIED PROGRAMS	34,193	34,193
	TOTAL AIRCRAFT PROCUREMENT, AIR FORCE	**16,784,279**	**17,747,801**
	MISSILE PROCUREMENT, AIR FORCE		
	MISSILE REPLACEMENT EQUIPMENT—BALLISTIC		
001	MISSILE REPLACEMENT EQ-BALLISTIC	55,888	55,888
	TACTICAL		
002	REPLAC EQUIP & WAR CONSUMABLES	9,100	9,100
003	JOINT AIR-TO-GROUND MUNITION	15,000	0
	Unjustified requirement (JAGM-F)		[–15,000]
004	JOINT AIR-SURFACE STANDOFF MISSILE	482,525	482,525
006	SIDEWINDER (AIM–9X)	160,408	160,408
007	AMRAAM	332,250	332,250
008	PREDATOR HELLFIRE MISSILE	118,860	111,160
	Unit cost savings		[–7,700]
009	SMALL DIAMETER BOMB	275,438	275,438
010	SMALL DIAMETER BOMB II	212,434	201,434
	Unit cost growth		[–11,000]
	INDUSTRIAL FACILITIES		
011	INDUSTR'L PREPAREDNS/POL PREVENTION	801	801
	CLASS IV		
012	ICBM FUZE MOD	5,000	5,000
013	ICBM FUZE MOD	14,497	14,497
014	MM III MODIFICATIONS	50,831	50,831
015	AGM–65D MAVERICK	294	294
016	AIR LAUNCH CRUISE MISSILE (ALCM)	77,387	77,387
	MISSILE SPARES AND REPAIR PARTS		
018	MSL SPRS/REPAIR PARTS (INITIAL)	1,910	1,910
019	REPLEN SPARES/REPAIR PARTS	82,490	82,490
	SPECIAL PROGRAMS		
023	SPECIAL UPDATE PROGRAMS	144,553	144,553
	CLASSIFIED PROGRAMS		
023A	CLASSIFIED PROGRAMS	849,521	849,521
	TOTAL MISSILE PROCUREMENT, AIR FORCE	**2,889,187**	**2,855,487**
	SPACE PROCUREMENT, AIR FORCE		
	SPACE PROGRAMS		
001	ADVANCED EHF	31,894	31,894
002	AF SATELLITE COMM SYSTEM	56,298	56,298
004	COUNTERSPACE SYSTEMS	5,700	5,700
005	FAMILY OF BEYOND LINE-OF-SIGHT TERMINALS	34,020	24,020
	Unjustified growth		[–10,000]
007	GENERAL INFORMATION TECH—SPACE	3,244	3,244
008	GPSIII FOLLOW ON	414,625	414,625
009	GPS III SPACE SEGMENT	31,466	31,466
012	SPACEBORNE EQUIP (COMSEC)	32,031	32,031
013	MILSATCOM	11,096	11,096
015	EVOLVED EXPENDABLE LAUNCH VEH(SPACE)	1,237,635	1,237,635
016	SBIR HIGH (SPACE)	233,952	218,012
	Unjustified growth		[–15,940]
017	NUDET DETECTION SYSTEM	7,432	7,432
018	ROCKET SYSTEMS LAUNCH PROGRAM	11,473	11,473
019	SPACE FENCE	71,784	50,284
	Unjustified growth		[–21,500]

SEC. 4101. PROCUREMENT
(In Thousands of Dollars)

Line	Item	FY 2020 Request	House Authorized
020	SPACE MODS	106,330	86,330
	Unjustified growth		[–20,000]
021	SPACELIFT RANGE SYSTEM SPACE	118,140	118,140
	SSPARES		
022	SPARES AND REPAIR PARTS	7,263	7,263
	TOTAL SPACE PROCUREMENT, AIR FORCE	**2,414,383**	**2,346,943**
	PROCUREMENT OF AMMUNITION, AIR FORCE		
	ROCKETS		
001	ROCKETS	133,268	115,268
	APKWS Mk 66 rocket motor price adjustment		[–18,000]
	CARTRIDGES		
002	CARTRIDGES	140,449	140,449
	BOMBS		
003	PRACTICE BOMBS	29,313	29,313
004	GENERAL PURPOSE BOMBS	85,885	85,885
006	JOINT DIRECT ATTACK MUNITION	1,066,224	1,019,224
	LJDAM sensor cost adjustment		[–10,000]
	Tailkit unit cost adjustment		[–37,000]
007	B61	80,773	80,773
	OTHER ITEMS		
009	CAD/PAD	47,069	47,069
010	EXPLOSIVE ORDNANCE DISPOSAL (EOD)	6,133	6,133
011	SPARES AND REPAIR PARTS	533	533
012	MODIFICATIONS	1,291	1,291
013	ITEMS LESS THAN $5,000,000	1,677	1,677
	FLARES		
015	FLARES	36,116	36,116
	FUZES		
016	FUZES	1,734	1,734
	SMALL ARMS		
017	SMALL ARMS	37,496	32,496
	Program decrease		[–5,000]
	TOTAL PROCUREMENT OF AMMUNITION, AIR FORCE	**1,667,961**	**1,597,961**
	OTHER PROCUREMENT, AIR FORCE		
	PASSENGER CARRYING VEHICLES		
001	PASSENGER CARRYING VEHICLES	15,238	15,238
	CARGO AND UTILITY VEHICLES		
002	MEDIUM TACTICAL VEHICLE	34,616	29,616
	Unjustified unit cost increases		[–5,000]
003	CAP VEHICLES	1,040	3,567
	Program increase—communications		[1,867]
	Program increase—vehicles		[660]
004	CARGO AND UTILITY VEHICLES	23,133	18,588
	Program increase		[455]
	Program reduction		[–5,000]
	SPECIAL PURPOSE VEHICLES		
005	JOINT LIGHT TACTICAL VEHICLE	32,027	22,027
	Program reduction		[–10,000]
006	SECURITY AND TACTICAL VEHICLES	1,315	1,315
007	SPECIAL PURPOSE VEHICLES	14,593	9,593
	Program reduction—prior year carryover		[–5,000]
	FIRE FIGHTING EQUIPMENT		
008	FIRE FIGHTING/CRASH RESCUE VEHICLES	28,604	28,604
	MATERIALS HANDLING EQUIPMENT		
009	MATERIALS HANDLING VEHICLES	21,848	21,848
	BASE MAINTENANCE SUPPORT		
010	RUNWAY SNOW REMOV AND CLEANING EQU	2,925	3,259
	Program increase		[334]
011	BASE MAINTENANCE SUPPORT VEHICLES	55,776	52,876
	Program increase		[2,100]
	Program reduction		[–5,000]
	COMM SECURITY EQUIPMENT(COMSEC)		
013	COMSEC EQUIPMENT	91,461	91,461
	INTELLIGENCE PROGRAMS		
014	INTERNATIONAL INTEL TECH & ARCHITECTURES	11,386	11,386
015	INTELLIGENCE TRAINING EQUIPMENT	7,619	7,619
016	INTELLIGENCE COMM EQUIPMENT	35,558	32,058
	IMAD unjustified procurement		[–3,500]
	ELECTRONICS PROGRAMS		
017	AIR TRAFFIC CONTROL & LANDING SYS	17,939	17,939
019	BATTLE CONTROL SYSTEM—FIXED	3,063	3,063
021	WEATHER OBSERVATION FORECAST	31,447	31,447
022	STRATEGIC COMMAND AND CONTROL	5,090	5,090
023	CHEYENNE MOUNTAIN COMPLEX	10,145	10,145
024	MISSION PLANNING SYSTEMS	14,508	14,508
026	INTEGRATED STRAT PLAN & ANALY NETWORK (ISPAN)	9,901	9,901

SEC. 4101. PROCUREMENT
(In Thousands of Dollars)

Line	Item	FY 2020 Request	House Authorized
	SPCL COMM-ELECTRONICS PROJECTS		
027	GENERAL INFORMATION TECHNOLOGY	26,933	26,933
028	AF GLOBAL COMMAND & CONTROL SYS	2,756	2,756
029	BATTLEFIELD AIRBORNE CONTROL NODE (BACN)	48,478	48,478
030	MOBILITY COMMAND AND CONTROL	21,186	21,186
031	AIR FORCE PHYSICAL SECURITY SYSTEM	178,361	158,361
	Program reduction		[–20,000]
032	COMBAT TRAINING RANGES	233,993	247,593
	Joint threat emitter increase		[13,600]
033	MINIMUM ESSENTIAL EMERGENCY COMM N	132,648	132,648
034	WIDE AREA SURVEILLANCE (WAS)	80,818	47,929
	Program decrease		[–32,889]
035	C3 COUNTERMEASURES	25,036	25,036
036	INTEGRATED PERSONNEL AND PAY SYSTEM	20,900	20,900
037	GCSS-AF FOS	11,226	11,226
038	DEFENSE ENTERPRISE ACCOUNTING & MGT SYS	1,905	1,905
039	MAINTENANCE REPAIR & OVERHAUL INITIATIVE	1,912	1,912
040	THEATER BATTLE MGT C2 SYSTEM	6,337	6,337
041	AIR & SPACE OPERATIONS CENTER (AOC)	33,243	33,243
	AIR FORCE COMMUNICATIONS		
043	BASE INFORMATION TRANSPT INFRAST (BITI) WIRED	69,530	59,530
	Program decrease		[–10,000]
044	AFNET	147,063	147,063
045	JOINT COMMUNICATIONS SUPPORT ELEMENT (JCSE)	6,505	6,505
046	USCENTCOM	20,190	20,190
047	USSTRATCOM	11,244	11,244
	ORGANIZATION AND BASE		
048	TACTICAL C-E EQUIPMENT	143,757	143,757
050	RADIO EQUIPMENT	15,402	15,402
051	CCTV/AUDIOVISUAL EQUIPMENT	3,211	3,211
052	BASE COMM INFRASTRUCTURE	43,123	43,123
	MODIFICATIONS		
053	COMM ELECT MODS	14,500	14,500
	PERSONAL SAFETY & RESCUE EQUIP		
054	PERSONAL SAFETY AND RESCUE EQUIPMENT	50,634	47,634
	Unit cost increase and early to need		[–3,000]
	DEPOT PLANT+MTRLS HANDLING EQ		
055	POWER CONDITIONING EQUIPMENT	11,000	11,000
056	MECHANIZED MATERIAL HANDLING EQUIP	11,901	11,901
	BASE SUPPORT EQUIPMENT		
057	BASE PROCURED EQUIPMENT	23,963	23,963
058	ENGINEERING AND EOD EQUIPMENT	34,124	34,124
059	MOBILITY EQUIPMENT	26,439	26,439
060	FUELS SUPPORT EQUIPMENT (FSE)	24,255	24,255
061	BASE MAINTENANCE AND SUPPORT EQUIPMENT	38,986	38,986
	SPECIAL SUPPORT PROJECTS		
063	DARP RC135	26,716	26,716
064	DCGS-AF	116,055	116,055
066	SPECIAL UPDATE PROGRAM	835,148	835,148
	CLASSIFIED PROGRAMS		
066A	CLASSIFIED PROGRAMS	18,292,807	18,292,807
	SPARES AND REPAIR PARTS		
067	SPARES AND REPAIR PARTS	81,340	81,340
	TOTAL OTHER PROCUREMENT, AIR FORCE	**21,342,857**	**21,262,484**
	PROCUREMENT, DEFENSE-WIDE		
	MAJOR EQUIPMENT, OSD		
022	MAJOR EQUIPMENT, DPAA	1,504	1,504
045	MAJOR EQUIPMENT, OSD	43,705	43,705
	MAJOR EQUIPMENT, NSA		
044	INFORMATION SYSTEMS SECURITY PROGRAM (ISSP)	1,533	133
	Realignment to DISA for Sharkseer		[–1,400]
	MAJOR EQUIPMENT, WHS		
049	MAJOR EQUIPMENT, WHS	507	507
	MAJOR EQUIPMENT, DISA		
008	INFORMATION SYSTEMS SECURITY	3,318	4,718
	Realignment for Sharkseer		[1,400]
009	TELEPORT PROGRAM	25,103	25,103
010	ITEMS LESS THAN $5 MILLION	26,416	26,416
012	DEFENSE INFORMATION SYSTEM NETWORK	17,574	17,574
014	WHITE HOUSE COMMUNICATION AGENCY	45,079	45,079
015	SENIOR LEADERSHIP ENTERPRISE	78,669	78,669
016	JOINT REGIONAL SECURITY STACKS (JRSS)	88,000	83,000
	Program decrease		[–5,000]
017	JOINT SERVICE PROVIDER	107,907	107,907
	MAJOR EQUIPMENT, DLA		
019	MAJOR EQUIPMENT	8,122	8,122
	MAJOR EQUIPMENT, DSS		

SEC. 4101. PROCUREMENT
(In Thousands of Dollars)

Line	Item	FY 2020 Request	House Authorized
023	MAJOR EQUIPMENT	496	496
	MAJOR EQUIPMENT, TJS		
046	MAJOR EQUIPMENT, TJS	6,905	6,905
047	MAJOR EQUIPMENT—TJS CYBER	1,458	1,458
	MAJOR EQUIPMENT, MISSILE DEFENSE AGENCY		
028	THAAD	425,863	425,863
029	GROUND BASED MIDCOURSE	9,471	9,471
031	AEGIS BMD	600,773	600,773
032	AEGIS BMD	96,995	96,995
033	BMDS AN/TPY–2 RADARS	10,046	10,046
034	ARROW 3 UPPER TIER SYSTEMS	55,000	55,000
035	SHORT RANGE BALLISTIC MISSILE DEFENSE (SRBMD)	50,000	50,000
036	AEGIS ASHORE PHASE III	25,659	25,659
037	IRON DOME	95,000	95,000
038	AEGIS BMD HARDWARE AND SOFTWARE	124,986	124,986
	MAJOR EQUIPMENT, DHRA		
003	PERSONNEL ADMINISTRATION	5,030	5,030
	MAJOR EQUIPMENT, DEFENSE THREAT REDUCTION AGENCY		
025	VEHICLES	211	211
026	OTHER MAJOR EQUIPMENT	11,521	11,521
	MAJOR EQUIPMENT, DODEA		
021	AUTOMATION/EDUCATIONAL SUPPORT & LOGISTICS	1,320	1,320
	MAJOR EQUIPMENT, DCMA		
002	MAJOR EQUIPMENT	2,432	2,432
	MAJOR EQUIPMENT, DMACT		
020	MAJOR EQUIPMENT	10,961	10,961
	CLASSIFIED PROGRAMS		
049A	CLASSIFIED PROGRAMS	589,366	589,366
	AVIATION PROGRAMS		
053	ROTARY WING UPGRADES AND SUSTAINMENT	172,020	172,020
054	UNMANNED ISR	15,208	15,208
055	NON-STANDARD AVIATION	32,310	32,310
056	U–28	10,898	10,898
057	MH–47 CHINOOK	173,812	170,312
	Excess growth		[–3,500]
058	CV–22 MODIFICATION	17,256	17,256
059	MQ–9 UNMANNED AERIAL VEHICLE	5,338	5,338
060	PRECISION STRIKE PACKAGE	232,930	232,930
061	AC/MC–130J	173,419	153,119
	Realignment for RFCM		[–8,500]
	Realignment to Future Vertical Lift		[–8,800]
	RFCM excess to need		[–3,000]
062	C–130 MODIFICATIONS	15,582	15,582
	SHIPBUILDING		
063	UNDERWATER SYSTEMS	58,991	58,991
	AMMUNITION PROGRAMS		
064	ORDNANCE ITEMS <$5M	279,992	279,992
	OTHER PROCUREMENT PROGRAMS		
065	INTELLIGENCE SYSTEMS	100,641	100,641
066	DISTRIBUTED COMMON GROUND/SURFACE SYSTEMS	12,522	12,522
067	OTHER ITEMS <$5M	103,910	103,910
068	COMBATANT CRAFT SYSTEMS	33,088	33,088
069	SPECIAL PROGRAMS	63,467	63,467
070	TACTICAL VEHICLES	77,832	77,832
071	WARRIOR SYSTEMS <$5M	298,480	298,480
072	COMBAT MISSION REQUIREMENTS	19,702	19,702
073	GLOBAL VIDEO SURVEILLANCE ACTIVITIES	4,787	4,787
074	OPERATIONAL ENHANCEMENTS INTELLIGENCE	8,175	8,175
075	OPERATIONAL ENHANCEMENTS	282,532	282,532
	CBDP		
076	CHEMICAL BIOLOGICAL SITUATIONAL AWARENESS	162,406	162,406
077	CB PROTECTION & HAZARD MITIGATION	188,188	188,188
	TOTAL PROCUREMENT, DEFENSE-WIDE	**5,114,416**	**5,085,616**
	JOINT URGENT OPERATIONAL NEEDS FUND		
	JOINT URGENT OPERATIONAL NEEDS FUND		
001	JOINT URGENT OPERATIONAL NEEDS FUND	99,200	0
	Program decrease		[–99,200]
	TOTAL JOINT URGENT OPERATIONAL NEEDS FUND	**99,200**	**0**
	TOTAL PROCUREMENT	**132,343,701**	**130,592,919**

1 **SEC. 4102. PROCUREMENT FOR OVERSEAS CONTINGENCY**

2 **OPERATIONS.**

SEC. 4102. PROCUREMENT FOR OVERSEAS CONTINGENCY OPERATIONS
(In Thousands of Dollars)

Line	Item	FY 2020 Request	House Authorized
	AIRCRAFT PROCUREMENT, ARMY		
	FIXED WING		
003	MQ–1 UAV	54,000	54,000
	ROTARY		
015	CH–47 HELICOPTER	25,000	25,000
	MODIFICATION OF AIRCRAFT		
021	MULTI SENSOR ABN RECON (MIP)	80,260	80,260
024	GRCS SEMA MODS (MIP)	750	750
026	EMARSS SEMA MODS (MIP)	22,180	22,180
027	UTILITY/CARGO AIRPLANE MODS	8,362	8,362
029	NETWORK AND MISSION PLAN	10	10
031	DEGRADED VISUAL ENVIRONMENT	49,450	0
	Early to need		[–49,450]
	GROUND SUPPORT AVIONICS		
037	CMWS	130,219	130,219
038	COMMON INFRARED COUNTERMEASURES (CIRCM)	9,310	9,310
	OTHER SUPPORT		
045	LAUNCHER GUIDED MISSILE: LONGBOW HELLFIRE XM2	2,000	2,000
	TOTAL AIRCRAFT PROCUREMENT, ARMY	**381,541**	**332,091**
	MISSILE PROCUREMENT, ARMY		
	SURFACE-TO-AIR MISSILE SYSTEM		
002	M-SHORAD—PROCUREMENT	158,300	158,300
003	MSE MISSILE	37,938	37,938
	AIR-TO-SURFACE MISSILE SYSTEM		
006	HELLFIRE SYS SUMMARY	236,265	236,265
	ANTI-TANK/ASSAULT MISSILE SYS		
008	JAVELIN (AAWS-M) SYSTEM SUMMARY	4,389	4,389
011	GUIDED MLRS ROCKET (GMLRS)	431,596	431,596
014	ARMY TACTICAL MSL SYS (ATACMS)—SYS SUM	130,770	130,770
015	LETHAL MINIATURE AERIAL MISSILE SYSTEM (LMAMS	83,300	83,300
	MODIFICATIONS		
019	STINGER MODS	7,500	7,500
022	MLRS MODS	348,000	325,000
	Excess to need		[–23,000]
	TOTAL MISSILE PROCUREMENT, ARMY	**1,438,058**	**1,415,058**
	PROCUREMENT OF W&TCV, ARMY		
	TRACKED COMBAT VEHICLES		
002	ARMORED MULTI PURPOSE VEHICLE (AMPV)	221,638	221,638
	MODIFICATION OF TRACKED COMBAT VEHICLES		
003	STRYKER (MOD)	4,100	4,100
008	IMPROVED RECOVERY VEHICLE (M88A2 HERCULES)	80,146	80,146
013	M1 ABRAMS TANK (MOD)	13,100	13,100
	WEAPONS & OTHER COMBAT VEHICLES		
015	M240 MEDIUM MACHINE GUN (7.62MM)	900	900
016	MULTI-ROLE ANTI-ARMOR ANTI-PERSONNEL WEAPON S	2,400	2,400
019	MORTAR SYSTEMS	18,941	18,941
020	XM320 GRENADE LAUNCHER MODULE (GLM)	526	526
023	CARBINE	1,183	1,183
025	COMMON REMOTELY OPERATED WEAPONS STATION	4,182	4,182
026	HANDGUN	248	248
	MOD OF WEAPONS AND OTHER COMBAT VEH		
031	M2 50 CAL MACHINE GUN MODS	6,090	6,090
	TOTAL PROCUREMENT OF W&TCV, ARMY	**353,454**	**353,454**
	PROCUREMENT OF AMMUNITION, ARMY		
	SMALL/MEDIUM CAL AMMUNITION		
001	CTG, 5.56MM, ALL TYPES	567	567
002	CTG, 7.62MM, ALL TYPES	40	40
003	CTG, HANDGUN, ALL TYPES	17	17
004	CTG, .50 CAL, ALL TYPES	189	189
007	CTG, 30MM, ALL TYPES	24,900	24,900
	ARTILLERY AMMUNITION		
015	PROJ 155MM EXTENDED RANGE M982	36,052	36,052
016	ARTILLERY PROPELLANTS, FUZES AND PRIMERS, ALL	7,271	7,271
	ROCKETS		
018	SHOULDER LAUNCHED MUNITIONS, ALL TYPES	176	176
019	ROCKET, HYDRA 70, ALL TYPES	79,459	79,459
	MISCELLANEOUS		
027	ITEMS LESS THAN $5 MILLION (AMMO)	11	11
	TOTAL PROCUREMENT OF AMMUNITION, ARMY	**148,682**	**148,682**

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Line	Item	FY 2020 Request	House Authorized
	OTHER PROCUREMENT, ARMY		
	TACTICAL VEHICLES		
010	FAMILY OF HEAVY TACTICAL VEHICLES (FHTV)	26,917	26,917
011	PLS ESP	16,941	16,941
012	HVY EXPANDED MOBILE TACTICAL TRUCK EXT SERV	62,734	62,734
014	TACTICAL WHEELED VEHICLE PROTECTION KITS	50,000	50,000
015	MODIFICATION OF IN SVC EQUIP	28,000	28,000
	COMM—JOINT COMMUNICATIONS		
022	TACTICAL NETWORK TECHNOLOGY MOD IN SVC	40,000	40,000
	COMM—SATELLITE COMMUNICATIONS		
029	TRANSPORTABLE TACTICAL COMMAND COMMUNICATIONS	6,930	6,930
031	ASSURED POSITIONING, NAVIGATION AND TIMING	11,778	11,778
032	SMART-T (SPACE)	825	825
	COMM—COMBAT COMMUNICATIONS		
040	RADIO TERMINAL SET, MIDS LVT(2)	350	350
047	COTS COMMUNICATIONS EQUIPMENT	20,400	20,400
048	FAMILY OF MED COMM FOR COMBAT CASUALTY CARE	1,231	1,231
	COMM—INTELLIGENCE COMM		
051	CI AUTOMATION ARCHITECTURE (MIP)	6,200	6,200
	COMM—LONG HAUL COMMUNICATIONS		
059	BASE SUPPORT COMMUNICATIONS	20,482	15,482
	Insufficient budget justification		[–5,000]
	COMM—BASE COMMUNICATIONS		
060	INFORMATION SYSTEMS	55,800	50,800
	Unjustified growth		[–5,000]
063	INSTALLATION INFO INFRASTRUCTURE MOD PROGRAM	75,820	75,820
	ELECT EQUIP—TACT INT REL ACT (TIARA)		
068	DCGS-A (MIP)	38,613	38,613
070	TROJAN (MIP)	1,337	1,337
071	MOD OF IN-SVC EQUIP (INTEL SPT) (MIP)	2,051	2,051
075	BIOMETRIC TACTICAL COLLECTION DEVICES (MIP)	1,800	1,800
	ELECT EQUIP—ELECTRONIC WARFARE (EW)		
082	FAMILY OF PERSISTENT SURVEILLANCE CAP. (MIP)	71,493	31,493
	Unjustified growth		[–40,000]
083	COUNTERINTELLIGENCE/SECURITY COUNTERMEASURES	6,917	6,917
	ELECT EQUIP—TACTICAL SURV. (TAC SURV)		
085	SENTINEL MODS	20,000	20,000
086	NIGHT VISION DEVICES	3,676	3,676
094	JOINT BATTLE COMMAND—PLATFORM (JBC-P)	25,568	25,568
097	COMPUTER BALLISTICS: LHMBC XM32	570	570
098	MORTAR FIRE CONTROL SYSTEM	15,975	15,975
	ELECT EQUIP—TACTICAL C2 SYSTEMS		
103	AIR & MSL DEFENSE PLANNING & CONTROL SYS	14,331	14,331
	ELECT EQUIP—AUTOMATION		
112	ARMY TRAINING MODERNIZATION	6,014	6,014
113	AUTOMATED DATA PROCESSING EQUIP	32,700	32,700
	CHEMICAL DEFENSIVE EQUIPMENT		
124	FAMILY OF NON-LETHAL EQUIPMENT (FNLE)	25,480	25,480
125	BASE DEFENSE SYSTEMS (BDS)	47,110	47,110
126	CBRN DEFENSE	18,711	18,711
	BRIDGING EQUIPMENT		
128	TACTICAL BRIDGING	4,884	4,884
	ENGINEER (NON-CONSTRUCTION) EQUIPMENT		
133	GRND STANDOFF MINE DETECTN SYSM (GSTAMIDS)	4,500	4,500
135	HUSKY MOUNTED DETECTION SYSTEM (HMDS)	34,253	34,253
136	ROBOTIC COMBAT SUPPORT SYSTEM (RCSS)	3,300	3,300
140	RENDER SAFE SETS KITS OUTFITS	84,000	84,000
	COMBAT SERVICE SUPPORT EQUIPMENT		
143	HEATERS AND ECU'S	8	8
145	PERSONNEL RECOVERY SUPPORT SYSTEM (PRSS)	5,101	5,101
146	GROUND SOLDIER SYSTEM	1,760	1,760
148	FORCE PROVIDER	56,400	56,400
150	CARGO AERIAL DEL & PERSONNEL PARACHUTE SYSTEM	2,040	2,040
	PETROLEUM EQUIPMENT		
154	DISTRIBUTION SYSTEMS, PETROLEUM & WATER	13,986	13,986
	MEDICAL EQUIPMENT		
155	COMBAT SUPPORT MEDICAL	2,735	2,735
	CONSTRUCTION EQUIPMENT		
159	SCRAPERS, EARTHMOVING	4,669	4,669
160	LOADERS	380	380
162	TRACTOR, FULL TRACKED	8,225	8,225
164	HIGH MOBILITY ENGINEER EXCAVATOR (HMEE)	3,000	3,000
166	CONST EQUIP ESP	3,870	3,870
167	ITEMS LESS THAN $5.0M (CONST EQUIP)	350	350
	GENERATORS		
171	GENERATORS AND ASSOCIATED EQUIP	2,436	2,436
	MATERIAL HANDLING EQUIPMENT		
173	FAMILY OF FORKLIFTS	5,152	5,152

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Line	Item	FY 2020 Request	House Authorized
	TRAINING EQUIPMENT		
175	TRAINING DEVICES, NONSYSTEM	2,106	2,106
	TEST MEASURE AND DIG EQUIPMENT (TMD)		
181	INTEGRATED FAMILY OF TEST EQUIPMENT (IFTE)	1,395	1,395
	OTHER SUPPORT EQUIPMENT		
184	RAPID EQUIPPING SOLDIER SUPPORT EQUIPMENT	24,122	24,122
185	PHYSICAL SECURITY SYSTEMS (OPA3)	10,016	10,016
187	MODIFICATION OF IN-SVC EQUIPMENT (OPA–3)	33,354	33,354
189	BUILDING, PRE-FAB, RELOCATABLE	62,654	62,654
	TOTAL OTHER PROCUREMENT, ARMY	**1,131,450**	**1,081,450**
	AIRCRAFT PROCUREMENT, NAVY		
	OTHER AIRCRAFT		
026	STUASL0 UAV	7,921	7,921
027	MQ–9A REAPER	77,000	0
	Unjustified OCO request		[–77,000]
	MODIFICATION OF AIRCRAFT		
036	EP–3 SERIES	5,488	5,488
046	SPECIAL PROJECT AIRCRAFT	3,498	3,498
051	COMMON ECM EQUIPMENT	3,406	3,406
053	COMMON DEFENSIVE WEAPON SYSTEM	3,274	3,274
062	QRC	18,458	18,458
	TOTAL AIRCRAFT PROCUREMENT, NAVY	**119,045**	**42,045**
	WEAPONS PROCUREMENT, NAVY		
	TACTICAL MISSILES		
011	JOINT AIR GROUND MISSILE (JAGM)	90,966	90,966
015	AERIAL TARGETS	6,500	6,500
	TOTAL WEAPONS PROCUREMENT, NAVY	**97,466**	**97,466**
	PROCUREMENT OF AMMO, NAVY & MC		
	NAVY AMMUNITION		
001	GENERAL PURPOSE BOMBS	26,978	26,978
002	JDAM	12,263	12,263
003	AIRBORNE ROCKETS, ALL TYPES	45,020	45,020
004	MACHINE GUN AMMUNITION	33,577	33,577
005	PRACTICE BOMBS	11,903	11,903
006	CARTRIDGES & CART ACTUATED DEVICES	15,081	15,081
007	AIR EXPENDABLE COUNTERMEASURES	16,911	16,911
011	OTHER SHIP GUN AMMUNITION	3,262	3,262
012	SMALL ARMS & LANDING PARTY AMMO	1,010	1,010
013	PYROTECHNIC AND DEMOLITION	537	537
	MARINE CORPS AMMUNITION		
016	MORTARS	1,930	1,930
017	DIRECT SUPPORT MUNITIONS	1,172	1,172
018	INFANTRY WEAPONS AMMUNITION	2,158	2,158
019	COMBAT SUPPORT MUNITIONS	965	965
021	ARTILLERY MUNITIONS	32,047	32,047
	TOTAL PROCUREMENT OF AMMO, NAVY & MC	**204,814**	**204,814**
	OTHER PROCUREMENT, NAVY		
	OTHER SHIPBOARD EQUIPMENT		
020	UNDERWATER EOD PROGRAMS	5,800	5,800
	ASW ELECTRONIC EQUIPMENT		
042	FIXED SURVEILLANCE SYSTEM	310,503	310,503
	SONOBUOYS		
085	SONOBUOYS—ALL TYPES	2,910	2,910
	AIRCRAFT SUPPORT EQUIPMENT		
088	AIRCRAFT SUPPORT EQUIPMENT	13,420	13,420
094	AVIATION SUPPORT EQUIPMENT	500	500
	OTHER ORDNANCE SUPPORT EQUIPMENT		
103	EXPLOSIVE ORDNANCE DISPOSAL EQUIP	15,307	15,307
	CIVIL ENGINEERING SUPPORT EQUIPMENT		
108	PASSENGER CARRYING VEHICLES	173	173
109	GENERAL PURPOSE TRUCKS	408	408
111	FIRE FIGHTING EQUIPMENT	785	785
	SUPPLY SUPPORT EQUIPMENT		
117	SUPPLY EQUIPMENT	100	100
118	FIRST DESTINATION TRANSPORTATION	510	510
	COMMAND SUPPORT EQUIPMENT		
122	COMMAND SUPPORT EQUIPMENT	2,800	2,800
123	MEDICAL SUPPORT EQUIPMENT	1,794	1,794
126	OPERATING FORCES SUPPORT EQUIPMENT	1,090	1,090
128	ENVIRONMENTAL SUPPORT EQUIPMENT	200	200
129	PHYSICAL SECURITY EQUIPMENT	1,300	1,300
	TOTAL OTHER PROCUREMENT, NAVY	**357,600**	**357,600**
	PROCUREMENT, MARINE CORPS		

SEC. 4102. PROCUREMENT FOR OVERSEAS CONTINGENCY OPERATIONS
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Line	Item	FY 2020 Request	House Authorized
	GUIDED MISSILES		
012	GUIDED MLRS ROCKET (GMLRS)	16,919	16,919
	ENGINEER AND OTHER EQUIPMENT		
045	EOD SYSTEMS	3,670	3,670
	TOTAL PROCUREMENT, MARINE CORPS	**20,589**	**20,589**
	AIRCRAFT PROCUREMENT, AIR FORCE		
	OTHER AIRCRAFT		
017	MQ–9	172,240	172,240
018	RQ–20B PUMA	12,150	12,150
	STRATEGIC AIRCRAFT		
022	LARGE AIRCRAFT INFRARED COUNTERMEASURES	53,335	53,335
	OTHER AIRCRAFT		
067	MQ–9 UAS PAYLOADS	19,800	19,800
	AIRCRAFT SPARES AND REPAIR PARTS		
069	INITIAL SPARES/REPAIR PARTS	44,560	44,560
	COMMON SUPPORT EQUIPMENT		
072	AIRCRAFT REPLACEMENT SUPPORT EQUIP	7,025	7,025
	TOTAL AIRCRAFT PROCUREMENT, AIR FORCE	**309,110**	**309,110**
	MISSILE PROCUREMENT, AIR FORCE		
	TACTICAL		
004	JOINT AIR-SURFACE STANDOFF MISSILE	20,900	20,900
008	PREDATOR HELLFIRE MISSILE	180,771	180,771
	TOTAL MISSILE PROCUREMENT, AIR FORCE	**201,671**	**201,671**
	PROCUREMENT OF AMMUNITION, AIR FORCE		
	ROCKETS		
001	ROCKETS	84,960	84,960
	CARTRIDGES		
002	CARTRIDGES	52,642	52,642
	BOMBS		
004	GENERAL PURPOSE BOMBS	545,309	545,309
	FLARES		
015	FLARES	93,272	93,272
	FUZES		
016	FUZES	157,155	157,155
	SMALL ARMS		
017	SMALL ARMS	6,095	6,095
	TOTAL PROCUREMENT OF AMMUNITION, AIR FORCE	**939,433**	**939,433**
	OTHER PROCUREMENT, AIR FORCE		
	PASSENGER CARRYING VEHICLES		
001	PASSENGER CARRYING VEHICLES	1,276	1,276
	CARGO AND UTILITY VEHICLES		
004	CARGO AND UTILITY VEHICLES	9,702	9,702
	SPECIAL PURPOSE VEHICLES		
005	JOINT LIGHT TACTICAL VEHICLE	40,999	40,999
007	SPECIAL PURPOSE VEHICLES	52,502	52,502
	FIRE FIGHTING EQUIPMENT		
008	FIRE FIGHTING/CRASH RESCUE VEHICLES	16,652	16,652
	MATERIALS HANDLING EQUIPMENT		
009	MATERIALS HANDLING VEHICLES	2,944	2,944
	BASE MAINTENANCE SUPPORT		
010	RUNWAY SNOW REMOV AND CLEANING EQU	3,753	3,753
011	BASE MAINTENANCE SUPPORT VEHICLES	11,837	11,837
	SPCL COMM-ELECTRONICS PROJECTS		
027	GENERAL INFORMATION TECHNOLOGY	5,000	5,000
031	AIR FORCE PHYSICAL SECURITY SYSTEM	106,919	106,919
	ORGANIZATION AND BASE		
048	TACTICAL C-E EQUIPMENT	306	306
052	BASE COMM INFRASTRUCTURE	4,300	4,300
	PERSONAL SAFETY & RESCUE EQUIP		
054	PERSONAL SAFETY AND RESCUE EQUIPMENT	22,200	22,200
	BASE SUPPORT EQUIPMENT		
059	MOBILITY EQUIPMENT	26,535	26,535
060	FUELS SUPPORT EQUIPMENT (FSE)	4,040	4,040
061	BASE MAINTENANCE AND SUPPORT EQUIPMENT	20,067	20,067
	CLASSIFIED PROGRAMS		
066A	CLASSIFIED PROGRAMS	3,209,066	3,209,066
	TOTAL OTHER PROCUREMENT, AIR FORCE	**3,538,098**	**3,538,098**
	PROCUREMENT, DEFENSE-WIDE		
	MAJOR EQUIPMENT, DISA		
009	TELEPORT PROGRAM	3,800	3,800
012	DEFENSE INFORMATION SYSTEM NETWORK	12,000	12,000
	MAJOR EQUIPMENT, DEFENSE THREAT REDUCTION AGENCY		
027	COUNTER IED & IMPROVISED THREAT TECHNOLOGIES	4,590	4,590

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Line	Item	FY 2020 Request	House Authorized
	CLASSIFIED PROGRAMS		
049A	CLASSIFIED PROGRAMS	51,380	51,380
	AVIATION PROGRAMS		
050	MANNED ISR	5,000	5,000
051	MC–12	5,000	5,000
052	MH–60 BLACKHAWK	28,100	28,100
054	UNMANNED ISR	8,207	8,207
056	U–28	31,500	31,500
057	MH–47 CHINOOK	37,500	34,500
	Excess growth		[–3,000]
059	MQ–9 UNMANNED AERIAL VEHICLE	1,900	1,900
	AMMUNITION PROGRAMS		
064	ORDNANCE ITEMS <$5M	138,252	138,252
	OTHER PROCUREMENT PROGRAMS		
065	INTELLIGENCE SYSTEMS	16,500	16,500
067	OTHER ITEMS <$5M	28	28
070	TACTICAL VEHICLES	2,990	2,990
071	WARRIOR SYSTEMS <$5M	37,512	37,512
072	COMBAT MISSION REQUIREMENTS	10,000	10,000
074	OPERATIONAL ENHANCEMENTS INTELLIGENCE	7,594	7,594
075	OPERATIONAL ENHANCEMENTS	45,194	45,194
	TOTAL PROCUREMENT, DEFENSE-WIDE	**447,047**	**444,047**
	NATIONAL GUARD AND RESERVE EQUIPMENT		
	UNDISTRIBUTED		
	Program increase		[415,000]
	TOTAL NATIONAL GUARD AND RESERVE EQUIPMENT		**415,000**
	TOTAL PROCUREMENT	**9,688,058**	**9,900,608**

TITLE XLII—RESEARCH, DEVELOPMENT, TEST, AND EVALUATION

SEC. 4201. RESEARCH, DEVELOPMENT, TEST, AND EVALUATION.

SEC. 4201. RESEARCH, DEVELOPMENT, TEST, AND EVALUATION
(In Thousands of Dollars)

Line	Program Element	Item	FY 2020 Request	House Authorized
		RESEARCH, DEVELOPMENT, TEST & EVAL, ARMY		
		BASIC RESEARCH		
002	0601102A	DEFENSE RESEARCH SCIENCES	297,976	297,976
003	0601103A	UNIVERSITY RESEARCH INITIATIVES	65,858	65,858
004	0601104A	UNIVERSITY AND INDUSTRY RESEARCH CENTERS	86,164	98,164
		Program increase		[7,000]
		Program increase—military medical innovation		[5,000]
005	0601121A	CYBER COLLABORATIVE RESEARCH ALLIANCE	4,982	4,982
		SUBTOTAL BASIC RESEARCH	**454,980**	**466,980**
		APPLIED RESEARCH		
010	0602141A	LETHALITY TECHNOLOGY	26,961	26,961
011	0602142A	ARMY APPLIED RESEARCH	25,319	25,319
012	0602143A	SOLDIER LETHALITY TECHNOLOGY	115,274	125,274
		Expeditionary mobile base camp technology		[5,000]
		HEROES program		[5,000]
013	0602144A	GROUND TECHNOLOGY	35,199	45,199
		High performance polymers research		[5,000]
		Manufacturing research technology		[5,000]
014	0602145A	NEXT GENERATION COMBAT VEHICLE TECHNOLOGY	219,047	225,047
		Structural thermoplastics		[6,000]
015	0602146A	NETWORK C3I TECHNOLOGY	114,516	120,016
		Assured PNT lab		[3,000]
		Next generation SAR small sat		[2,500]
016	0602147A	LONG RANGE PRECISION FIRES TECHNOLOGY	74,327	79,327
		NextGen propulsion cycle artillery range extension		[5,000]

SEC. 4201. RESEARCH, DEVELOPMENT, TEST, AND EVALUATION
(In Thousands of Dollars)

Line	Program Element	Item	FY 2020 Request	House Authorized
017	0602148A	FUTURE VERTICLE LIFT TECHNOLOGY	93,601	96,601
		Program increase		[3,000]
018	0602150A	AIR AND MISSILE DEFENSE TECHNOLOGY	50,771	50,771
020	0602213A	C3I APPLIED CYBER	18,947	18,947
023	0602307A	ADVANCED WEAPONS TECHNOLOGY		5,000
		Directed energy test range workloads		[5,000]
037	0602784A	MILITARY ENGINEERING TECHNOLOGY		5,000
		Cellulose nanocomposites research		[5,000]
038	0602785A	MANPOWER/PERSONNEL/TRAINING TECHNOLOGY	20,873	20,873
040	0602787A	MEDICAL TECHNOLOGY	99,155	102,155
		Program increase		[3,000]
		SUBTOTAL APPLIED RESEARCH	**893,990**	**946,490**
		ADVANCED TECHNOLOGY DEVELOPMENT		
041	0603001A	WARFIGHTER ADVANCED TECHNOLOGY		5,000
		Expeditionary maneuver support technologies		[5,000]
042	0603002A	MEDICAL ADVANCED TECHNOLOGY	42,030	42,030
047	0603007A	MANPOWER, PERSONNEL AND TRAINING ADVANCED TECHNOLOGY.	11,038	11,038
050	0603117A	ARMY ADVANCED TECHNOLOGY DEVELOPMENT	63,338	63,338
051	0603118A	SOLDIER LETHALITY ADVANCED TECHNOLOGY	118,468	128,468
		Microlattic technology for combat helmet improvements		[5,000]
		Thermal mitigation technologies		[5,000]
052	0603119A	GROUND ADVANCED TECHNOLOGY	12,593	17,593
		Ground advanced technology for cold regions		[5,000]
059	0603457A	C3I CYBER ADVANCED DEVELOPMENT	13,769	13,769
060	0603461A	HIGH PERFORMANCE COMPUTING MODERNIZATION PROGRAM.	184,755	224,755
		Program increase		[40,000]
061	0603462A	NEXT GENERATION COMBAT VEHICLE ADVANCED TECHNOLOGY.	160,035	170,035
		Program increase—hydrogen fuel cells		[10,000]
062	0603463A	NETWORK C3I ADVANCED TECHNOLOGY	106,899	103,899
		Underexecution		[–3,000]
063	0603464A	LONG RANGE PRECISION FIRES ADVANCED TECHNOLOGY	174,386	179,386
		Program increase missile demonstrations		[5,000]
064	0603465A	FUTURE VERTICAL LIFT ADVANCED TECHNOLOGY	151,640	146,640
		Excess to need		[–5,000]
065	0603466A	AIR AND MISSILE DEFENSE ADVANCED TECHNOLOGY	60,613	60,613
		SUBTOTAL ADVANCED TECHNOLOGY DEVELOPMENT.	**1,099,564**	**1,166,564**
		ADVANCED COMPONENT DEVELOPMENT & PROTOTYPES		
073	0603305A	ARMY MISSLE DEFENSE SYSTEMS INTEGRATION	10,987	30,987
		Conventional mission capabilities		[10,000]
		System lab integration improvements		[10,000]
074	0603327A	AIR AND MISSILE DEFENSE SYSTEMS ENGINEERING	15,148	15,148
075	0603619A	LANDMINE WARFARE AND BARRIER—ADV DEV	92,915	92,915
077	0603639A	TANK AND MEDIUM CALIBER AMMUNITION	82,146	82,146
078	0603645A	ARMORED SYSTEM MODERNIZATION—ADV DEV	157,656	157,656
079	0603747A	SOLDIER SUPPORT AND SURVIVABILITY	6,514	6,514
080	0603766A	TACTICAL ELECTRONIC SURVEILLANCE SYSTEM—ADV DEV	34,890	37,890
		Mobile ground terminal		[3,000]
081	0603774A	NIGHT VISION SYSTEMS ADVANCED DEVELOPMENT	251,011	206,011
		IVAS insufficient justification		[–45,000]
082	0603779A	ENVIRONMENTAL QUALITY TECHNOLOGY—DEM/VAL	15,132	15,132
083	0603790A	NATO RESEARCH AND DEVELOPMENT	5,406	5,406
084	0603801A	AVIATION—ADV DEV	459,290	443,340
		Early to need		[–15,950]
085	0603804A	LOGISTICS AND ENGINEER EQUIPMENT—ADV DEV	6,254	6,254
086	0603807A	MEDICAL SYSTEMS—ADV DEV	31,175	31,175
087	0603827A	SOLDIER SYSTEMS—ADVANCED DEVELOPMENT	22,113	22,113
088	0604017A	ROBOTICS DEVELOPMENT	115,222	115,222
090	0604021A	ELECTRONIC WARFARE TECHNOLOGY MATURATION (MIP)	18,043	18,043
091	0604100A	ANALYSIS OF ALTERNATIVES	10,023	10,023
092	0604113A	FUTURE TACTICAL UNMANNED AIRCRAFT SYSTEM (FTUAS).	40,745	40,745
093	0604114A	LOWER TIER AIR MISSILE DEFENSE (LTAMD) SENSOR	427,772	427,772
094	0604115A	TECHNOLOGY MATURATION INITIATIVES	196,676	161,676
		Insufficient schedule detail		[–35,000]
095	0604117A	MANEUVER—SHORT RANGE AIR DEFENSE (M-SHORAD)	33,100	29,100
		Excess testing cost		[–4,000]
097	0604119A	ARMY ADVANCED COMPONENT DEVELOPMENT & PROTOTYPING.	115,116	105,116
		Early to need		[–10,000]
099	0604121A	SYNTHETIC TRAINING ENVIRONMENT REFINEMENT & PROTOTYPING.	136,761	111,761

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Line	Program Element	Item	FY 2020 Request	House Authorized
		Early to need (IVAS)		[–25,000]
100	0604182A	HYPERSONICS	228,000	259,000
		Transfer from RDTE Defense-Wide, line 124		[31,000]
102	0604403A	FUTURE INTERCEPTOR	8,000	8,000
103	0604541A	UNIFIED NETWORK TRANSPORT	39,600	30,600
		Early to need		[–9,000]
104	0604644A	MOBILE MEDIUM RANGE MISSILE	20,000	0
		Program decrease		[–20,000]
106	0305251A	CYBERSPACE OPERATIONS FORCES AND FORCE SUPPORT	52,102	52,102
107	1206120A	ASSURED POSITIONING, NAVIGATION AND TIMING (PNT)	192,562	150,062
		Project cancellation		[–42,500]
108	1206308A	ARMY SPACE SYSTEMS INTEGRATION	104,996	54,996
		Program delay		[–50,000]
		SUBTOTAL ADVANCED COMPONENT DEVELOPMENT & PROTOTYPES.	**2,929,355**	**2,726,905**
		SYSTEM DEVELOPMENT & DEMONSTRATION		
109	0604201A	AIRCRAFT AVIONICS	29,164	29,164
110	0604270A	ELECTRONIC WARFARE DEVELOPMENT	70,539	70,539
113	0604601A	INFANTRY SUPPORT WEAPONS	106,121	125,321
		Army unfunded priority—NGSW program increase		[19,200]
114	0604604A	MEDIUM TACTICAL VEHICLES	2,152	2,152
115	0604611A	JAVELIN	17,897	16,397
		Qualification testing early to need		[–1,500]
116	0604622A	FAMILY OF HEAVY TACTICAL VEHICLES	16,745	16,745
117	0604633A	AIR TRAFFIC CONTROL	6,989	6,989
118	0604642A	LIGHT TACTICAL WHEELED VEHICLES	10,465	10,465
119	0604645A	ARMORED SYSTEMS MODERNIZATION (ASM)—ENG DEV	310,152	295,152
		Program delay		[–15,000]
120	0604710A	NIGHT VISION SYSTEMS—ENG DEV	181,732	166,732
		Insufficient justification (IVAS)		[–15,000]
121	0604713A	COMBAT FEEDING, CLOTHING, AND EQUIPMENT	2,393	2,393
122	0604715A	NON-SYSTEM TRAINING DEVICES—ENG DEV	27,412	27,412
123	0604741A	AIR DEFENSE COMMAND, CONTROL AND INTELLIGENCE—ENG DEV.	43,502	38,502
		Historical underexecution		[–5,000]
124	0604742A	CONSTRUCTIVE SIMULATION SYSTEMS DEVELOPMENT	11,636	11,636
125	0604746A	AUTOMATIC TEST EQUIPMENT DEVELOPMENT	10,915	10,915
126	0604760A	DISTRIBUTIVE INTERACTIVE SIMULATIONS (DIS)—ENG DEV.	7,801	7,801
127	0604768A	BRILLIANT ANTI-ARMOR SUBMUNITION (BAT)	25,000	20,000
		PFAL excess		[–5,000]
128	0604780A	COMBINED ARMS TACTICAL TRAINER (CATT) CORE	9,241	9,241
129	0604798A	BRIGADE ANALYSIS, INTEGRATION AND EVALUATION	42,634	38,634
		RCO support excess		[–4,000]
130	0604802A	WEAPONS AND MUNITIONS—ENG DEV	181,023	181,023
131	0604804A	LOGISTICS AND ENGINEER EQUIPMENT—ENG DEV	103,226	103,226
132	0604805A	COMMAND, CONTROL, COMMUNICATIONS SYSTEMS—ENG DEV.	12,595	12,595
133	0604807A	MEDICAL MATERIEL/MEDICAL BIOLOGICAL DEFENSE EQUIPMENT—ENG DEV.	48,264	48,264
134	0604808A	LANDMINE WARFARE/BARRIER—ENG DEV	39,208	39,208
135	0604818A	ARMY TACTICAL COMMAND & CONTROL HARDWARE & SOFTWARE.	140,637	138,137
		CPI2 testing previously funded		[–2,500]
136	0604820A	RADAR DEVELOPMENT	105,243	105,243
137	0604822A	GENERAL FUND ENTERPRISE BUSINESS SYSTEM (GFEBS)	46,683	41,683
		Program decrease		[–5,000]
138	0604823A	FIREFINDER	17,294	17,294
139	0604827A	SOLDIER SYSTEMS—WARRIOR DEM/VAL	5,803	4,803
		Historical underexecution		[–1,000]
140	0604852A	SUITE OF SURVIVABILITY ENHANCEMENT SYSTEMS—EMD	98,698	128,698
		Program increase for vehicle protection evaluation		[30,000]
141	0604854A	ARTILLERY SYSTEMS—EMD	15,832	10,832
		Mobile howitzer testing early to need		[–5,000]
142	0605013A	INFORMATION TECHNOLOGY DEVELOPMENT	126,537	126,537
143	0605018A	INTEGRATED PERSONNEL AND PAY SYSTEM-ARMY (IPPS-A)	142,773	99,773
		Program decrease		[–43,000]
144	0605028A	ARMORED MULTI-PURPOSE VEHICLE (AMPV)	96,730	96,730
145	0605029A	INTEGRATED GROUND SECURITY SURVEILLANCE RESPONSE CAPABILITY (IGSSR-C).	6,699	6,699
146	0605030A	JOINT TACTICAL NETWORK CENTER (JTNC)	15,882	15,882
147	0605031A	JOINT TACTICAL NETWORK (JTN)	40,808	40,808
149	0605033A	GROUND-BASED OPERATIONAL SURVEILLANCE SYSTEM—EXPEDITIONARY (GBOSS-E).	3,847	3,847
150	0605034A	TACTICAL SECURITY SYSTEM (TSS)	6,928	6,928
151	0605035A	COMMON INFRARED COUNTERMEASURES (CIRCM)	34,488	34,488
152	0605036A	COMBATING WEAPONS OF MASS DESTRUCTION (CWMD)	10,000	10,000

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154	0605038A	NUCLEAR BIOLOGICAL CHEMICAL RECONNAISSANCE VEHICLE (NBCRV) SENSOR SUITE.	6,054	6,054
155	0605041A	DEFENSIVE CYBER TOOL DEVELOPMENT	62,262	62,262
156	0605042A	TACTICAL NETWORK RADIO SYSTEMS (LOW-TIER)	35,654	28,654
		Excess growth		[–7,000]
157	0605047A	CONTRACT WRITING SYSTEM	19,682	19,682
158	0605049A	MISSILE WARNING SYSTEM MODERNIZATION (MWSM)	1,539	1,539
159	0605051A	AIRCRAFT SURVIVABILITY DEVELOPMENT	64,557	64,557
160	0605052A	INDIRECT FIRE PROTECTION CAPABILITY INC 2—BLOCK 1	243,228	243,228
161	0605053A	GROUND ROBOTICS	41,308	41,308
162	0605054A	EMERGING TECHNOLOGY INITIATIVES	45,896	41,896
		Testing and evaluation excess growth		[–4,000]
163	0605203A	ARMY SYSTEM DEVELOPMENT & DEMONSTRATION	164,883	164,883
165	0605450A	JOINT AIR-TO-GROUND MISSILE (JAGM)	9,500	9,500
166	0605457A	ARMY INTEGRATED AIR AND MISSILE DEFENSE (AIAMD)	208,938	203,938
		Testing and evaluation excess growth		[–5,000]
167	0605625A	MANNED GROUND VEHICLE	378,400	378,400
168	0605766A	NATIONAL CAPABILITIES INTEGRATION (MIP)	7,835	9,835
		Mobile ground terminal		[2,000]
169	0605812A	JOINT LIGHT TACTICAL VEHICLE (JLTV) ENGINEERING AND MANUFACTURING DEVELOPMENT PH.	2,732	7,232
		Army requested realignment from OPA 7		[4,500]
170	0605830A	AVIATION GROUND SUPPORT EQUIPMENT	1,664	1,664
172	0303032A	TROJAN—RH12	3,936	3,936
174	0304270A	ELECTRONIC WARFARE DEVELOPMENT	19,675	19,675
		SUBTOTAL SYSTEM DEVELOPMENT & DEMONSTRATION.	**3,549,431**	**3,487,131**
		RDT&E MANAGEMENT SUPPORT		
176	0604256A	THREAT SIMULATOR DEVELOPMENT	14,117	14,117
177	0604258A	TARGET SYSTEMS DEVELOPMENT	8,327	8,327
178	0604759A	MAJOR T&E INVESTMENT	136,565	136,565
179	0605103A	RAND ARROYO CENTER	13,113	13,113
180	0605301A	ARMY KWAJALEIN ATOLL	238,691	226,691
		Program decrease		[–12,000]
181	0605326A	CONCEPTS EXPERIMENTATION PROGRAM	42,922	42,922
183	0605601A	ARMY TEST RANGES AND FACILITIES	334,468	334,468
184	0605602A	ARMY TECHNICAL TEST INSTRUMENTATION AND TARGETS	46,974	51,974
		Program increase—space and missile cybersecurity		[5,000]
185	0605604A	SURVIVABILITY/LETHALITY ANALYSIS	35,075	35,075
186	0605606A	AIRCRAFT CERTIFICATION	3,461	3,461
187	0605702A	METEOROLOGICAL SUPPORT TO RDT&E ACTIVITIES	6,233	6,233
188	0605706A	MATERIEL SYSTEMS ANALYSIS	21,342	21,342
189	0605709A	EXPLOITATION OF FOREIGN ITEMS	11,168	11,168
190	0605712A	SUPPORT OF OPERATIONAL TESTING	52,723	52,723
191	0605716A	ARMY EVALUATION CENTER	60,815	60,815
192	0605718A	ARMY MODELING & SIM X-CMD COLLABORATION & INTEG	2,527	2,527
193	0605801A	PROGRAMWIDE ACTIVITIES	58,175	61,175
		Program increase for transition costs		[3,000]
194	0605803A	TECHNICAL INFORMATION ACTIVITIES	25,060	25,060
195	0605805A	MUNITIONS STANDARDIZATION, EFFECTIVENESS AND SAFETY.	44,458	49,458
		Advanced lightweight small arms and medium caliber ammunition		[5,000]
196	0605857A	ENVIRONMENTAL QUALITY TECHNOLOGY MGMT SUPPORT	4,681	4,681
197	0605898A	ARMY DIRECT REPORT HEADQUARTERS—R&D - MHA	53,820	53,820
198	0606001A	MILITARY GROUND-BASED CREW TECHNOLOGY	4,291	4,291
199	0606002A	RONALD REAGAN BALLISTIC MISSILE DEFENSE TEST SITE	62,069	62,069
200	0606003A	COUNTERINTEL AND HUMAN INTEL MODERNIZATION	1,050	1,050
201	0606942A	ASSESSMENTS AND EVALUATIONS CYBER VULNERABILITIES.	4,500	4,500
		SUBTOTAL RDT&E MANAGEMENT SUPPORT	**1,286,625**	**1,287,625**
		OPERATIONAL SYSTEMS DEVELOPMENT		
204	0603778A	MLRS PRODUCT IMPROVEMENT PROGRAM	22,877	17,877
		HIMARS excess growth		[–5,000]
206	0605024A	ANTI-TAMPER TECHNOLOGY SUPPORT	8,491	8,491
207	0607131A	WEAPONS AND MUNITIONS PRODUCT IMPROVEMENT PROGRAMS.	15,645	15,645
209	0607134A	LONG RANGE PRECISION FIRES (LRPF)	164,182	164,182
211	0607136A	BLACKHAWK PRODUCT IMPROVEMENT PROGRAM	13,039	13,039
212	0607137A	CHINOOK PRODUCT IMPROVEMENT PROGRAM	174,371	174,371
213	0607138A	FIXED WING PRODUCT IMPROVEMENT PROGRAM	4,545	4,545
214	0607139A	IMPROVED TURBINE ENGINE PROGRAM	206,434	206,434
216	0607142A	AVIATION ROCKET SYSTEM PRODUCT IMPROVEMENT AND DEVELOPMENT.	24,221	14,221
		Integrated munitions launcher early to need		[–10,000]
217	0607143A	UNMANNED AIRCRAFT SYSTEM UNIVERSAL PRODUCTS	32,016	32,016
218	0607145A	APACHE FUTURE DEVELOPMENT	5,448	448

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		Unjustified request		[–5,000]
219	0607312A	ARMY OPERATIONAL SYSTEMS DEVELOPMENT	49,526	49,526
220	0607665A	FAMILY OF BIOMETRICS	1,702	1,702
221	0607865A	PATRIOT PRODUCT IMPROVEMENT	96,430	96,430
222	0203728A	JOINT AUTOMATED DEEP OPERATION COORDINATION SYSTEM (JADOCS).	47,398	47,398
223	0203735A	COMBAT VEHICLE IMPROVEMENT PROGRAMS	334,463	324,463
		Early to need		[–10,000]
225	0203743A	155MM SELF-PROPELLED HOWITZER IMPROVEMENTS	214,246	214,246
226	0203744A	AIRCRAFT MODIFICATIONS/PRODUCT IMPROVEMENT PROGRAMS.	16,486	11,986
		Excess to need		[–4,500]
227	0203752A	AIRCRAFT ENGINE COMPONENT IMPROVEMENT PROGRAM	144	144
228	0203758A	DIGITIZATION	5,270	5,270
229	0203801A	MISSILE/AIR DEFENSE PRODUCT IMPROVEMENT PROGRAM	1,287	1,287
234	0205412A	ENVIRONMENTAL QUALITY TECHNOLOGY—OPERATIONAL SYSTEM DEV.	732	732
235	0205456A	LOWER TIER AIR AND MISSILE DEFENSE (AMD) SYSTEM	107,746	107,746
236	0205778A	GUIDED MULTIPLE-LAUNCH ROCKET SYSTEM (GMLRS)	138,594	128,594
		Testing excess to need		[–10,000]
238	0303028A	SECURITY AND INTELLIGENCE ACTIVITIES	13,845	13,845
239	0303140A	INFORMATION SYSTEMS SECURITY PROGRAM	29,185	29,185
240	0303141A	GLOBAL COMBAT SUPPORT SYSTEM	68,976	58,976
		Program decrease		[–10,000]
241	0303150A	WWMCCS/GLOBAL COMMAND AND CONTROL SYSTEM	2,073	2,073
245	0305179A	INTEGRATED BROADCAST SERVICE (IBS)	459	459
246	0305204A	TACTICAL UNMANNED AERIAL VEHICLES	5,097	5,097
247	0305206A	AIRBORNE RECONNAISSANCE SYSTEMS	11,177	11,177
248	0305208A	DISTRIBUTED COMMON GROUND/SURFACE SYSTEMS	38,121	38,121
250	0305232A	RQ–11 UAV	3,218	3,218
251	0305233A	RQ–7 UAV	7,817	7,817
252	0307665A	BIOMETRICS ENABLED INTELLIGENCE	2,000	2,000
253	0708045A	END ITEM INDUSTRIAL PREPAREDNESS ACTIVITIES	59,848	64,848
		Program increase—additive manufacturing technology insertion		[5,000]
254	1203142A	SATCOM GROUND ENVIRONMENT (SPACE)	34,169	34,169
255	1208053A	JOINT TACTICAL GROUND SYSTEM	10,275	10,275
255A	9999999999	CLASSIFIED PROGRAMS	7,273	7,273
		SUBTOTAL OPERATIONAL SYSTEMS DEVELOPMENT	**1,978,826**	**1,929,326**
		TOTAL RESEARCH, DEVELOPMENT, TEST & EVAL, ARMY.	**12,192,771**	**12,011,021**
		RESEARCH, DEVELOPMENT, TEST & EVAL, NAVY		
		BASIC RESEARCH		
001	0601103N	UNIVERSITY RESEARCH INITIATIVES	116,850	126,850
		Advanced radar research		[5,000]
		Defense University research initiatives		[5,000]
002	0601152N	IN-HOUSE LABORATORY INDEPENDENT RESEARCH	19,121	19,121
003	0601153N	DEFENSE RESEARCH SCIENCES	470,007	470,007
		SUBTOTAL BASIC RESEARCH	**605,978**	**615,978**
		APPLIED RESEARCH		
004	0602114N	POWER PROJECTION APPLIED RESEARCH	18,546	25,546
		Hypersonic testing facilities		[7,000]
005	0602123N	FORCE PROTECTION APPLIED RESEARCH	119,517	162,517
		Autonomous vehicle collaboration across maritime domains		[10,000]
		Cyber-physical research		[8,000]
		Energy resilience		[5,000]
		Hybrid composite struct. res. enhanced mobility		[5,000]
		Navy power and energy systems technology		[5,000]
		Program increase—direct air capture and blue carbon research		[10,000]
006	0602131M	MARINE CORPS LANDING FORCE TECHNOLOGY	56,604	61,604
		Interdisciplinary expeditionary cybersecurity research		[5,000]
007	0602235N	COMMON PICTURE APPLIED RESEARCH	49,297	49,297
008	0602236N	WARFIGHTER SUSTAINMENT APPLIED RESEARCH	63,825	68,825
		Warfighter safety and performance		[5,000]
009	0602271N	ELECTROMAGNETIC SYSTEMS APPLIED RESEARCH	83,497	83,497
010	0602435N	OCEAN WARFIGHTING ENVIRONMENT APPLIED RESEARCH	63,894	63,894
011	0602651M	JOINT NON-LETHAL WEAPONS APPLIED RESEARCH	6,346	6,346
012	0602747N	UNDERSEA WARFARE APPLIED RESEARCH	57,075	77,075
		Academic partnerships for undersea vehicle research		[10,000]
		Resident autonomous undersea robotics		[10,000]
013	0602750N	FUTURE NAVAL CAPABILITIES APPLIED RESEARCH	154,755	154,755
014	0602782N	MINE AND EXPEDITIONARY WARFARE APPLIED RESEARCH	36,074	36,074
015	0602792N	INNOVATIVE NAVAL PROTOTYPES (INP) APPLIED RESEARCH.	153,062	153,062
016	0602861N	SCIENCE AND TECHNOLOGY MANAGEMENT—ONR FIELD ACITIVITIES.	73,961	73,961

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		SUBTOTAL APPLIED RESEARCH	**936,453**	**1,016,453**
		ADVANCED TECHNOLOGY DEVELOPMENT		
017	0603123N	FORCE PROTECTION ADVANCED TECHNOLOGY	35,286	35,286
018	0603271N	ELECTROMAGNETIC SYSTEMS ADVANCED TECHNOLOGY	9,499	9,499
019	0603640M	USMC ADVANCED TECHNOLOGY DEMONSTRATION (ATD)	172,847	177,847
		Program increase—modular advanced armed robotic system		[5,000]
020	0603651M	JOINT NON-LETHAL WEAPONS TECHNOLOGY DEVELOPMENT.	13,307	13,307
021	0603673N	FUTURE NAVAL CAPABILITIES ADVANCED TECHNOLOGY DEVELOPMENT.	231,907	231,907
022	0603680N	MANUFACTURING TECHNOLOGY PROGRAM	60,138	80,138
		Program increase		[20,000]
023	0603729N	WARFIGHTER PROTECTION ADVANCED TECHNOLOGY	4,849	4,849
025	0603758N	NAVY WARFIGHTING EXPERIMENTS AND DEMONSTRATIONS.	67,739	67,739
026	0603782N	MINE AND EXPEDITIONARY WARFARE ADVANCED TECHNOLOGY.	13,335	13,335
027	0603801N	INNOVATIVE NAVAL PROTOTYPES (INP) ADVANCED TECHNOLOGY DEVELOPMENT.	133,303	176,303
		Electromagnetic railgun		[20,350]
		Program increase		[22,650]
		SUBTOTAL ADVANCED TECHNOLOGY DEVELOPMENT.	**742,210**	**810,210**
		ADVANCED COMPONENT DEVELOPMENT & PROTOTYPES		
028	0603207N	AIR/OCEAN TACTICAL APPLICATIONS	32,643	32,643
029	0603216N	AVIATION SURVIVABILITY	11,919	11,919
030	0603251N	AIRCRAFT SYSTEMS	1,473	1,473
031	0603254N	ASW SYSTEMS DEVELOPMENT	7,172	7,172
032	0603261N	TACTICAL AIRBORNE RECONNAISSANCE	3,419	3,419
033	0603382N	ADVANCED COMBAT SYSTEMS TECHNOLOGY	64,694	64,694
034	0603502N	SURFACE AND SHALLOW WATER MINE COUNTERMEASURES.	507,000	312,200
		LUSV Design Contracts early to need		[–29,100]
		LUSV GFE early to need		[–79,200]
		LUSV program decrease		[–43,000]
		MUSV program increase		[43,000]
		Reduce one LUSV		[–86,500]
035	0603506N	SURFACE SHIP TORPEDO DEFENSE	15,800	15,800
036	0603512N	CARRIER SYSTEMS DEVELOPMENT	4,997	4,997
037	0603525N	PILOT FISH	291,148	291,148
038	0603527N	RETRACT LARCH	11,980	11,980
039	0603536N	RETRACT JUNIPER	129,163	129,163
040	0603542N	RADIOLOGICAL CONTROL	689	689
041	0603553N	SURFACE ASW	1,137	1,137
042	0603561N	ADVANCED SUBMARINE SYSTEM DEVELOPMENT	148,756	148,756
043	0603562N	SUBMARINE TACTICAL WARFARE SYSTEMS	11,192	11,192
044	0603563N	SHIP CONCEPT ADVANCED DESIGN	81,846	67,846
		Future surface combatant concept development concurrency		[–24,000]
		Program increase		[5,000]
		Program increase—moving target defense		[5,000]
045	0603564N	SHIP PRELIMINARY DESIGN & FEASIBILITY STUDIES	69,084	59,084
		Program decrease		[–10,000]
046	0603570N	ADVANCED NUCLEAR POWER SYSTEMS	181,652	181,652
047	0603573N	ADVANCED SURFACE MACHINERY SYSTEMS	25,408	30,408
		Program increase		[5,000]
048	0603576N	CHALK EAGLE	64,877	64,877
049	0603581N	LITTORAL COMBAT SHIP (LCS)	9,934	9,934
050	0603582N	COMBAT SYSTEM INTEGRATION	17,251	17,251
051	0603595N	OHIO REPLACEMENT	419,051	419,051
052	0603596N	LCS MISSION MODULES	108,505	108,505
053	0603597N	AUTOMATED TEST AND ANALYSIS	7,653	7,653
054	0603599N	FRIGATE DEVELOPMENT	59,007	59,007
055	0603609N	CONVENTIONAL MUNITIONS	9,988	9,988
056	0603635M	MARINE CORPS GROUND COMBAT/SUPPORT SYSTEM	86,464	11,464
		Insufficient justification and contract delay		[–75,000]
057	0603654N	JOINT SERVICE EXPLOSIVE ORDNANCE DEVELOPMENT	33,478	33,478
058	0603713N	OCEAN ENGINEERING TECHNOLOGY DEVELOPMENT	5,619	5,619
059	0603721N	ENVIRONMENTAL PROTECTION	20,564	20,564
060	0603724N	NAVY ENERGY PROGRAM	26,514	49,514
		Battery development and safety enterprise		[13,000]
		Marine energy systems for sensors and microgrids		[10,000]
061	0603725N	FACILITIES IMPROVEMENT	3,440	3,440
062	0603734N	CHALK CORAL	346,800	346,800
063	0603739N	NAVY LOGISTIC PRODUCTIVITY	3,857	3,857
064	0603746N	RETRACT MAPLE	258,519	258,519

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065	0603748N	LINK PLUMERIA	403,909	403,909
066	0603751N	RETRACT ELM	63,434	63,434
067	0603764N	LINK EVERGREEN	184,110	184,110
068	0603790N	NATO RESEARCH AND DEVELOPMENT	7,697	7,697
069	0603795N	LAND ATTACK TECHNOLOGY	9,086	9,086
070	0603851M	JOINT NON-LETHAL WEAPONS TESTING	28,466	28,466
071	0603860N	JOINT PRECISION APPROACH AND LANDING SYSTEMS—DEM/VAL.	51,341	51,341
072	0603925N	DIRECTED ENERGY AND ELECTRIC WEAPON SYSTEMS	118,169	118,169
073	0604014N	F/A –18 INFRARED SEARCH AND TRACK (IRST)	113,456	112,456
		Program delay		[–1,000]
074	0604027N	DIGITAL WARFARE OFFICE	50,120	50,120
075	0604028N	SMALL AND MEDIUM UNMANNED UNDERSEA VEHICLES	32,527	32,527
076	0604029N	UNMANNED UNDERSEA VEHICLE CORE TECHNOLOGIES	54,376	54,376
077	0604030N	RAPID PROTOTYPING, EXPERIMENTATION AND DEMONSTRATION..	36,197	36,197
078	0604031N	LARGE UNMANNED UNDERSEA VEHICLES	68,310	59,810
		Early to need		[–8,500]
079	0604112N	GERALD R. FORD CLASS NUCLEAR AIRCRAFT CARRIER (CVN 78—80).	121,310	121,310
080	0604126N	LITTORAL AIRBORNE MCM	17,248	17,248
081	0604127N	SURFACE MINE COUNTERMEASURES	18,735	18,735
082	0604272N	TACTICAL AIR DIRECTIONAL INFRARED COUNTERMEASURES (TADIRCM).	68,346	58,346
		Excess to need		[–10,000]
084	0604289M	NEXT GENERATION LOGISTICS	4,420	4,420
085	0604320M	RAPID TECHNOLOGY CAPABILITY PROTOTYPE	4,558	4,558
086	0604454N	LX (R)	12,500	12,500
087	0604536N	ADVANCED UNDERSEA PROTOTYPING	181,967	174,437
		ORCA XLUUV prior year carryover		[–7,530]
088	0604636N	COUNTER UNMANNED AIRCRAFT SYSTEMS (C-UAS)	5,500	5,500
089	0604659N	PRECISION STRIKE WEAPONS DEVELOPMENT PROGRAM	718,148	638,148
		Excess growth		[–80,000]
090	0604707N	SPACE AND ELECTRONIC WARFARE (SEW) ARCHITECTURE/ENGINEERING SUPPORT.	5,263	5,263
091	0604786N	OFFENSIVE ANTI-SURFACE WARFARE WEAPON DEVELOPMENT.	65,419	65,419
092	0303354N	ASW SYSTEMS DEVELOPMENT—MIP	9,991	9,991
093	0304240M	ADVANCED TACTICAL UNMANNED AIRCRAFT SYSTEM	21,157	39,657
		KMAX Large Unmanned Logistics System USMC unfunded priority.		[18,500]
095	0304270N	ELECTRONIC WARFARE DEVELOPMENT—MIP	609	609
		SUBTOTAL ADVANCED COMPONENT DEVELOPMENT & PROTOTYPES.	**5,559,062**	**5,204,732**
		SYSTEM DEVELOPMENT & DEMONSTRATION		
096	0603208N	TRAINING SYSTEM AIRCRAFT	15,514	15,514
097	0604212N	OTHER HELO DEVELOPMENT	28,835	28,835
098	0604214M	AV–8B AIRCRAFT—ENG DEV	27,441	27,441
100	0604215N	STANDARDS DEVELOPMENT	3,642	3,642
101	0604216N	MULTI-MISSION HELICOPTER UPGRADE DEVELOPMENT	19,196	19,196
104	0604230N	WARFARE SUPPORT SYSTEM	8,601	8,601
105	0604231N	TACTICAL COMMAND SYSTEM	77,232	77,232
106	0604234N	ADVANCED HAWKEYE	232,752	232,752
107	0604245M	H–1 UPGRADES	65,359	64,859
		Support cost growth		[–500]
109	0604261N	ACOUSTIC SEARCH SENSORS	47,013	47,013
110	0604262N	V–22A	185,105	172,105
		Excess to need		[–13,000]
111	0604264N	AIR CREW SYSTEMS DEVELOPMENT	21,172	21,172
112	0604269N	EA–18	143,585	123,585
		Unjustified cost growth		[–20,000]
113	0604270N	ELECTRONIC WARFARE DEVELOPMENT	116,811	109,651
		Unjustified request		[–7,160]
114	0604273M	EXECUTIVE HELO DEVELOPMENT	187,436	187,436
116	0604274N	NEXT GENERATION JAMMER (NGJ)	524,261	443,261
		Underexecution		[–81,000]
117	0604280N	JOINT TACTICAL RADIO SYSTEM—NAVY (JTRS-NAVY)	192,345	190,845
		Early to need		[–1,500]
118	0604282N	NEXT GENERATION JAMMER (NGJ) INCREMENT II	111,068	111,068
119	0604307N	SURFACE COMBATANT COMBAT SYSTEM ENGINEERING	415,625	415,625
120	0604311N	LPD–17 CLASS SYSTEMS INTEGRATION	640	640
121	0604329N	SMALL DIAMETER BOMB (SDB)	50,096	50,096
122	0604366N	STANDARD MISSILE IMPROVEMENTS	232,391	232,391
123	0604373N	AIRBORNE MCM	10,916	10,916
124	0604378N	NAVAL INTEGRATED FIRE CONTROL—COUNTER AIR SYSTEMS ENGINEERING.	33,379	33,379
125	0604501N	ADVANCED ABOVE WATER SENSORS	34,554	34,554

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126	0604503N	SSN–688 AND TRIDENT MODERNIZATION	84,663	84,663
127	0604504N	AIR CONTROL	44,923	44,923
128	0604512N	SHIPBOARD AVIATION SYSTEMS	10,632	10,632
129	0604518N	COMBAT INFORMATION CENTER CONVERSION	16,094	16,094
130	0604522N	AIR AND MISSILE DEFENSE RADAR (AMDR) SYSTEM	55,349	55,349
131	0604530N	ADVANCED ARRESTING GEAR (AAG)	123,490	123,490
132	0604558N	NEW DESIGN SSN	121,010	121,010
133	0604562N	SUBMARINE TACTICAL WARFARE SYSTEM	62,426	62,426
134	0604567N	SHIP CONTRACT DESIGN/ LIVE FIRE T&E	46,809	56,809
		Program increase—DDG–51 advanced degaussing		[10,000]
135	0604574N	NAVY TACTICAL COMPUTER RESOURCES	3,692	3,692
137	0604601N	MINE DEVELOPMENT	28,964	28,964
138	0604610N	LIGHTWEIGHT TORPEDO DEVELOPMENT	148,349	127,349
		Excess to need		[–21,000]
139	0604654N	JOINT SERVICE EXPLOSIVE ORDNANCE DEVELOPMENT	8,237	8,237
140	0604657M	USMC GROUND COMBAT/SUPPORTING ARMS SYSTEMS—ENG DEV.	22,000	22,000
141	0604703N	PERSONNEL, TRAINING, SIMULATION, AND HUMAN FACTORS.	5,500	5,500
142	0604727N	JOINT STANDOFF WEAPON SYSTEMS	18,725	16,225
		Excess to need		[–2,500]
143	0604755N	SHIP SELF DEFENSE (DETECT & CONTROL)	192,603	192,603
144	0604756N	SHIP SELF DEFENSE (ENGAGE: HARD KILL)	137,268	137,268
145	0604757N	SHIP SELF DEFENSE (ENGAGE: SOFT KILL/EW)	97,363	97,363
146	0604761N	INTELLIGENCE ENGINEERING	26,710	26,710
147	0604771N	MEDICAL DEVELOPMENT	8,181	13,181
		Enterotoxigenic escherichia coli research		[5,000]
148	0604777N	NAVIGATION/ID SYSTEM	40,755	40,755
149	0604800M	JOINT STRIKE FIGHTER (JSF)—EMD	1,710	1,710
150	0604800N	JOINT STRIKE FIGHTER (JSF)—EMD	1,490	1,490
153	0605013M	INFORMATION TECHNOLOGY DEVELOPMENT	1,494	1,494
154	0605013N	INFORMATION TECHNOLOGY DEVELOPMENT	384,162	370,662
		Unjustified growth over FY19 projection		[–13,500]
155	0605024N	ANTI-TAMPER TECHNOLOGY SUPPORT	4,882	4,882
156	0605212M	CH–53K RDTE	516,955	496,955
		Excess to need		[–20,000]
158	0605215N	MISSION PLANNING	75,886	75,886
159	0605217N	COMMON AVIONICS	43,187	43,187
160	0605220N	SHIP TO SHORE CONNECTOR (SSC)	4,909	4,909
161	0605327N	T-AO 205 CLASS	1,682	1,682
162	0605414N	UNMANNED CARRIER AVIATION (UCA)	671,258	671,258
163	0605450M	JOINT AIR-TO-GROUND MISSILE (JAGM)	18,393	12,393
		Schedule delays		[–6,000]
165	0605500N	MULTI-MISSION MARITIME AIRCRAFT (MMA)	21,472	21,472
166	0605504N	MULTI-MISSION MARITIME (MMA) INCREMENT III	177,234	177,234
167	0605611M	MARINE CORPS ASSAULT VEHICLES SYSTEM DEVELOPMENT & DEMONSTRATION.	77,322	69,121
		Early to need		[–2,201]
		Excess growth		[–6,000]
168	0605813M	JOINT LIGHT TACTICAL VEHICLE (JLTV) SYSTEM DEVELOPMENT & DEMONSTRATION.	2,105	2,105
169	0204202N	DDG–1000	111,435	111,435
172	0304785N	TACTICAL CRYPTOLOGIC SYSTEMS	101,339	101,339
173	0306250M	CYBER OPERATIONS TECHNOLOGY DEVELOPMENT	26,406	26,406
		SUBTOTAL SYSTEM DEVELOPMENT & DEMONSTRATION.	**6,332,033**	**6,152,672**
		MANAGEMENT SUPPORT		
174	0604256N	THREAT SIMULATOR DEVELOPMENT	66,678	66,678
175	0604258N	TARGET SYSTEMS DEVELOPMENT	12,027	12,027
176	0604759N	MAJOR T&E INVESTMENT	85,348	85,348
178	0605152N	STUDIES AND ANALYSIS SUPPORT—NAVY	3,908	3,908
179	0605154N	CENTER FOR NAVAL ANALYSES	47,669	47,669
180	0605285N	NEXT GENERATION FIGHTER	20,698	20,698
182	0605804N	TECHNICAL INFORMATION SERVICES	988	988
183	0605853N	MANAGEMENT, TECHNICAL & INTERNATIONAL SUPPORT	102,401	102,401
184	0605856N	STRATEGIC TECHNICAL SUPPORT	3,742	3,742
186	0605863N	RDT&E SHIP AND AIRCRAFT SUPPORT	93,872	93,872
187	0605864N	TEST AND EVALUATION SUPPORT	394,020	394,020
188	0605865N	OPERATIONAL TEST AND EVALUATION CAPABILITY	25,145	25,145
189	0605866N	NAVY SPACE AND ELECTRONIC WARFARE (SEW) SUPPORT	15,773	15,773
190	0605867N	SEW SURVEILLANCE/RECONNAISSANCE SUPPORT	8,402	8,402
191	0605873M	MARINE CORPS PROGRAM WIDE SUPPORT	37,265	29,265
		Unjustified growth		[–8,000]
192	0605898N	MANAGEMENT HQ—R&D	39,673	39,673
193	0606355N	WARFARE INNOVATION MANAGEMENT	28,750	28,750
196	0305327N	INSIDER THREAT	2,645	2,645
197	0902498N	MANAGEMENT HEADQUARTERS (DEPARTMENTAL SUPPORT ACTIVITIES).	1,460	1,460

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Line	Program Element	Item	FY 2020 Request	House Authorized
		SUBTOTAL MANAGEMENT SUPPORT	**990,464**	**982,464**
		OPERATIONAL SYSTEMS DEVELOPMENT		
202	0604227N	HARPOON MODIFICATIONS	2,302	2,302
203	0604840M	F–35 C2D2	422,881	422,881
204	0604840N	F–35 C2D2	383,741	383,741
205	0607658N	COOPERATIVE ENGAGEMENT CAPABILITY (CEC)	127,924	127,924
207	0101221N	STRATEGIC SUB & WEAPONS SYSTEM SUPPORT	157,676	157,676
208	0101224N	SSBN SECURITY TECHNOLOGY PROGRAM	43,354	43,354
209	0101226N	SUBMARINE ACOUSTIC WARFARE DEVELOPMENT	6,815	6,815
210	0101402N	NAVY STRATEGIC COMMUNICATIONS	31,174	31,174
211	0204136N	F/A–18 SQUADRONS	213,715	216,215
		Block III support prior year carryover		[–7,500]
		Jet noise reduction research		[10,000]
213	0204228N	SURFACE SUPPORT	36,389	45,389
		WSN–12 Technology Insertion		[9,000]
214	0204229N	TOMAHAWK AND TOMAHAWK MISSION PLANNING CENTER (TMPC).	320,134	320,134
215	0204311N	INTEGRATED SURVEILLANCE SYSTEM	88,382	88,382
216	0204313N	SHIP-TOWED ARRAY SURVEILLANCE SYSTEMS	14,449	14,449
217	0204413N	AMPHIBIOUS TACTICAL SUPPORT UNITS (DISPLACEMENT CRAFT).	6,931	6,931
218	0204460M	GROUND/AIR TASK ORIENTED RADAR (G/ATOR)	23,891	23,891
219	0204571N	CONSOLIDATED TRAINING SYSTEMS DEVELOPMENT	129,873	129,873
221	0204575N	ELECTRONIC WARFARE (EW) READINESS SUPPORT	82,325	62,325
		Prior year carryover		[–20,000]
222	0205601N	HARM IMPROVEMENT	138,431	132,431
		AARGM ER test schedule discrepancy		[–6,000]
224	0205620N	SURFACE ASW COMBAT SYSTEM INTEGRATION	29,572	29,572
225	0205632N	MK–48 ADCAP	85,973	85,973
226	0205633N	AVIATION IMPROVEMENTS	125,461	125,461
227	0205675N	OPERATIONAL NUCLEAR POWER SYSTEMS	106,192	106,192
228	0206313M	MARINE CORPS COMMUNICATIONS SYSTEMS	143,317	134,317
		Program delay		[–9,000]
229	0206335M	COMMON AVIATION COMMAND AND CONTROL SYSTEM (CAC2S).	4,489	4,489
230	0206623M	MARINE CORPS GROUND COMBAT/SUPPORTING ARMS SYSTEMS.	51,788	51,788
231	0206624M	MARINE CORPS COMBAT SERVICES SUPPORT	37,761	37,761
232	0206625M	USMC INTELLIGENCE/ELECTRONIC WARFARE SYSTEMS (MIP).	21,458	21,458
233	0206629M	AMPHIBIOUS ASSAULT VEHICLE	5,476	5,476
234	0207161N	TACTICAL AIM MISSILES	19,488	19,488
235	0207163N	ADVANCED MEDIUM RANGE AIR-TO-AIR MISSILE (AMRAAM)	39,029	34,529
		Prior year carryover		[–4,500]
239	0303109N	SATELLITE COMMUNICATIONS (SPACE)	34,344	34,344
240	0303138N	CONSOLIDATED AFLOAT NETWORK ENTERPRISE SERVICES (CANES).	22,873	22,873
241	0303140N	INFORMATION SYSTEMS SECURITY PROGRAM	41,853	41,853
243	0305192N	MILITARY INTELLIGENCE PROGRAM (MIP) ACTIVITIES	8,913	8,913
244	0305204N	TACTICAL UNMANNED AERIAL VEHICLES	9,451	9,451
245	0305205N	UAS INTEGRATION AND INTEROPERABILITY	42,315	42,315
246	0305208M	DISTRIBUTED COMMON GROUND/SURFACE SYSTEMS	22,042	22,042
248	0305220N	MQ–4C TRITON	11,784	11,784
249	0305231N	MQ–8 UAV	29,618	29,618
250	0305232M	RQ–11 UAV	509	509
251	0305234N	SMALL (LEVEL 0) TACTICAL UAS (STUASL0)	11,545	11,545
252	0305239M	RQ–21A	10,914	10,914
253	0305241N	MULTI-INTELLIGENCE SENSOR DEVELOPMENT	70,612	70,612
254	0305242M	UNMANNED AERIAL SYSTEMS (UAS) PAYLOADS (MIP)	3,704	3,704
255	0305421N	RQ–4 MODERNIZATION	202,346	202,346
256	0308601N	MODELING AND SIMULATION SUPPORT	7,119	7,119
257	0702207N	DEPOT MAINTENANCE (NON-IF)	38,182	38,182
258	0708730N	MARITIME TECHNOLOGY (MARITECH)	6,779	6,779
259	1203109N	SATELLITE COMMUNICATIONS (SPACE)	15,868	15,868
259A	9999999999	CLASSIFIED PROGRAMS	1,613,137	1,613,137
		SUBTOTAL OPERATIONAL SYSTEMS DEVELOPMENT	**5,104,299**	**5,076,299**
		TOTAL RESEARCH, DEVELOPMENT, TEST & EVAL, NAVY.	**20,270,499**	**19,858,808**
		RESEARCH, DEVELOPMENT, TEST & EVAL, AF		
		BASIC RESEARCH		
001	0601102F	DEFENSE RESEARCH SCIENCES	356,107	356,107
002	0601103F	UNIVERSITY RESEARCH INITIATIVES	158,859	158,859
003	0601108F	HIGH ENERGY LASER RESEARCH INITIATIVES	14,795	14,795
		SUBTOTAL BASIC RESEARCH	**529,761**	**529,761**

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		APPLIED RESEARCH		
004	0602102F	MATERIALS	128,851	143,851
		Advanced thermal protection systems		[10,000]
		Program increase—flexible biosensors		[5,000]
005	0602201F	AEROSPACE VEHICLE TECHNOLOGIES	147,724	147,724
006	0602202F	HUMAN EFFECTIVENESS APPLIED RESEARCH	131,795	131,795
007	0602203F	AEROSPACE PROPULSION	198,775	213,775
		Educational partnership agreements for aerospace propulsion		[10,000]
		Electrical power/thermal management systems		[5,000]
008	0602204F	AEROSPACE SENSORS	202,912	202,912
010	0602298F	SCIENCE AND TECHNOLOGY MANAGEMENT— MAJOR HEADQUARTERS ACTIVITIES.	7,968	7,968
012	0602602F	CONVENTIONAL MUNITIONS	142,772	142,772
013	0602605F	DIRECTED ENERGY TECHNOLOGY	124,379	124,379
014	0602788F	DOMINANT INFORMATION SCIENCES AND METHODS	181,562	186,562
		Detection and countering of adversarial UAS		[5,000]
015	0602890F	HIGH ENERGY LASER RESEARCH	44,221	44,221
016	1206601F	SPACE TECHNOLOGY	124,667	124,667
		SUBTOTAL APPLIED RESEARCH	**1,435,626**	**1,470,626**
		ADVANCED TECHNOLOGY DEVELOPMENT		
017	0603112F	ADVANCED MATERIALS FOR WEAPON SYSTEMS	36,586	41,586
		Metals affordability initiative		[5,000]
018	0603199F	SUSTAINMENT SCIENCE AND TECHNOLOGY (S&T)	16,249	16,249
019	0603203F	ADVANCED AEROSPACE SENSORS	38,292	38,292
020	0603211F	AEROSPACE TECHNOLOGY DEV/DEMO	102,949	122,949
		High speed vertical lift demonstration		[5,000]
		Low cost attritable aircraft technology		[15,000]
021	0603216F	AEROSPACE PROPULSION AND POWER TECHNOLOGY	113,973	118,973
		Electrical power systems		[5,000]
022	0603270F	ELECTRONIC COMBAT TECHNOLOGY	48,408	48,408
023	0603401F	ADVANCED SPACECRAFT TECHNOLOGY	70,525	70,525
024	0603444F	MAUI SPACE SURVEILLANCE SYSTEM (MSSS)	11,878	11,878
025	0603456F	HUMAN EFFECTIVENESS ADVANCED TECHNOLOGY DEVELOPMENT.	37,542	37,542
026	0603601F	CONVENTIONAL WEAPONS TECHNOLOGY	225,817	225,817
027	0603605F	ADVANCED WEAPONS TECHNOLOGY	37,404	37,404
028	0603680F	MANUFACTURING TECHNOLOGY PROGRAM	43,116	59,116
		Aerospace composites manufacturing		[10,000]
		Program increase		[6,000]
029	0603788F	BATTLESPACE KNOWLEDGE DEVELOPMENT AND DEMONSTRATION.	56,414	56,414
		SUBTOTAL ADVANCED TECHNOLOGY DEVELOPMENT.	**839,153**	**885,153**
		ADVANCED COMPONENT DEVELOPMENT & PROTOTYPES		
031	0603260F	INTELLIGENCE ADVANCED DEVELOPMENT	5,672	5,672
032	0603742F	COMBAT IDENTIFICATION TECHNOLOGY	27,085	27,085
033	0603790F	NATO RESEARCH AND DEVELOPMENT	4,955	4,955
034	0603851F	INTERCONTINENTAL BALLISTIC MISSILE—DEM/VAL	44,109	44,109
036	0604002F	AIR FORCE WEATHER SERVICES RESEARCH	772	772
037	0604004F	ADVANCED ENGINE DEVELOPMENT	878,442	849,442
		Unjustified budget growth		[–29,000]
038	0604015F	LONG RANGE STRIKE—BOMBER	3,003,899	3,003,899
039	0604032F	DIRECTED ENERGY PROTOTYPING	10,000	20,000
		High-value airborne asset protection		[10,000]
040	0604033F	HYPERSONICS PROTOTYPING	576,000	536,000
		Program concurrency		[–40,000]
041	0604201F	PNT RESILIENCY, MODS, AND IMPROVEMENTS	92,600	124,600
		Program increase		[32,000]
042	0604257F	ADVANCED TECHNOLOGY AND SENSORS	23,145	23,145
043	0604288F	NATIONAL AIRBORNE OPS CENTER (NAOC) RECAP	16,669	16,669
044	0604317F	TECHNOLOGY TRANSFER	23,614	23,614
045	0604327F	HARD AND DEEPLY BURIED TARGET DEFEAT SYSTEM (HDBTDS) PROGRAM.	113,121	113,121
046	0604414F	CYBER RESILIENCY OF WEAPON SYSTEMS-ACS	56,325	56,325
047	0604776F	DEPLOYMENT & DISTRIBUTION ENTERPRISE R&D	28,034	28,034
048	0604858F	TECH TRANSITION PROGRAM	128,476	128,476
049	0605230F	GROUND BASED STRATEGIC DETERRENT	570,373	489,395
		Program reduction		[–103,000]
		Technical adjustment for NC3		[22,022]
050	0207100F	LIGHT ATTACK ARMED RECONNAISSANCE (LAAR) SQUADRONS.	35,000	35,000
051	0207110F	NEXT GENERATION AIR DOMINANCE	1,000,000	500,000
		Cost-risk associated with development profile		[–500,000]
052	0207455F	THREE DIMENSIONAL LONG-RANGE RADAR (3DELRR)	37,290	37,290
053	0208099F	UNIFIED PLATFORM (UP)	10,000	10,000

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054	0305236F	COMMON DATA LINK EXECUTIVE AGENT (CDL EA)	36,910	36,910
055	0305251F	CYBERSPACE OPERATIONS FORCES AND FORCE SUPPORT	35,000	35,000
056	0305601F	MISSION PARTNER ENVIRONMENTS	8,550	8,550
057	0306250F	CYBER OPERATIONS TECHNOLOGY DEVELOPMENT	198,864	198,864
058	0306415F	ENABLED CYBER ACTIVITIES	16,632	16,632
060	0901410F	CONTRACTING INFORMATION TECHNOLOGY SYSTEM	20,830	20,830
061	1203164F	NAVSTAR GLOBAL POSITIONING SYSTEM (USER EQUIPMENT) (SPACE).	329,948	329,948
062	1203710F	EO/IR WEATHER SYSTEMS	101,222	101,222
063	1206422F	WEATHER SYSTEM FOLLOW-ON	225,660	205,660
		Unjustified growth		[–20,000]
064	1206425F	SPACE SITUATION AWARENESS SYSTEMS	29,776	29,776
065	1206427F	SPACE SYSTEMS PROTOTYPE TRANSITIONS (SSPT)	142,045	162,045
		Accelerate Blackjack prototype demonstration and tech maturation.		[20,000]
067	1206438F	SPACE CONTROL TECHNOLOGY	64,231	58,231
		Unjustified growth		[–6,000]
068	1206730F	SPACE SECURITY AND DEFENSE PROGRAM	56,385	56,385
069	1206760F	PROTECTED TACTICAL ENTERPRISE SERVICE (PTES)	105,003	105,003
070	1206761F	PROTECTED TACTICAL SERVICE (PTS)	173,694	166,194
		Unjustified growth		[–7,500]
071	1206855F	EVOLVED STRATEGIC SATCOM (ESS)	172,206	172,206
072	1206857F	SPACE RAPID CAPABILITIES OFFICE	33,742	30,742
		Program decrease		[–3,000]
		SUBTOTAL ADVANCED COMPONENT DEVELOPMENT & PROTOTYPES.	**8,436,279**	**7,811,801**
		SYSTEM DEVELOPMENT & DEMONSTRATION		
073	0604200F	FUTURE ADVANCED WEAPON ANALYSIS & PROGRAMS	246,200	200
		Unjustified requirement		[–246,000]
074	0604201F	PNT RESILIENCY, MODS, AND IMPROVEMENTS	67,782	67,782
075	0604222F	NUCLEAR WEAPONS SUPPORT	4,406	4,406
076	0604270F	ELECTRONIC WARFARE DEVELOPMENT	2,066	2,066
077	0604281F	TACTICAL DATA NETWORKS ENTERPRISE	229,631	210,331
		Prior-year carryover		[–19,300]
078	0604287F	PHYSICAL SECURITY EQUIPMENT	9,700	9,700
079	0604329F	SMALL DIAMETER BOMB (SDB)—EMD	31,241	41,241
		Program efficiency initiative		[10,000]
080	0604429F	AIRBORNE ELECTRONIC ATTACK	2	2
081	0604602F	ARMAMENT/ORDNANCE DEVELOPMENT	28,043	22,543
		Unjustified requirement (JAGM-F)		[–5,500]
082	0604604F	SUBMUNITIONS	3,045	3,045
083	0604617F	AGILE COMBAT SUPPORT	19,944	19,944
084	0604706F	LIFE SUPPORT SYSTEMS	8,624	16,624
		Next-gen ejection seat qualification		[8,000]
085	0604735F	COMBAT TRAINING RANGES	37,365	37,365
086	0604800F	F–35—EMD	7,628	7,628
087	0604932F	LONG RANGE STANDOFF WEAPON	712,539	712,539
088	0604933F	ICBM FUZE MODERNIZATION	161,199	161,199
089	0605030F	JOINT TACTICAL NETWORK CENTER (JTNC)	2,414	2,414
091	0605056F	OPEN ARCHITECTURE MANAGEMENT	30,000	30,000
093	0605221F	KC–46	59,561	59,561
094	0605223F	ADVANCED PILOT TRAINING	348,473	348,473
095	0605229F	COMBAT RESCUE HELICOPTER	247,047	246,047
		Support cost growth		[–1,000]
098	0605931F	B–2 DEFENSIVE MANAGEMENT SYSTEM	294,400	294,400
099	0101125F	NUCLEAR WEAPONS MODERNIZATION	27,564	27,564
101	0207171F	F–15 EPAWSS	47,322	47,322
102	0207328F	STAND IN ATTACK WEAPON	162,840	127,840
		Unjustified program growth		[–35,000]
103	0207701F	FULL COMBAT MISSION TRAINING	9,797	9,797
106	0401310F	C–32 EXECUTIVE TRANSPORT RECAPITALIZATION	9,930	9,930
107	0401319F	VC–25B	757,923	757,923
108	0701212F	AUTOMATED TEST SYSTEMS	2,787	2,787
109	1203176F	COMBAT SURVIVOR EVADER LOCATOR	2,000	2,000
110	1203269F	GPS III FOLLOW-ON (GPS IIIF)	462,875	452,875
		Unjustified growth		[–10,000]
111	1203940F	SPACE SITUATION AWARENESS OPERATIONS	76,829	56,829
		GBOSS unjustified growth		[–20,000]
112	1206421F	COUNTERSPACE SYSTEMS	29,037	34,037
		Counterspace communications systems pre-planned product improvement.		[5,000]
113	1206422F	WEATHER SYSTEM FOLLOW-ON	2,237	2,237
114	1206425F	SPACE SITUATION AWARENESS SYSTEMS	412,894	362,894
		Unexecutable growth		[–50,000]
116	1206431F	ADVANCED EHF MILSATCOM (SPACE)	117,290	117,290
117	1206432F	POLAR MILSATCOM (SPACE)	427,400	427,400
118	1206433F	WIDEBAND GLOBAL SATCOM (SPACE)	1,920	1,920

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119	1206441F	SPACE BASED INFRARED SYSTEM (SBIRS) HIGH EMD	1	1
120	1206442F	NEXT GENERATION OPIR	1,395,278	1,018,878
		Unexecutable funding profile		[–293,100]
		Unexecutable funding profile (ground)		[–83,300]
121	1206445F	COMMERCIAL SATCOM (COMSATCOM) INTEGRATION		10,000
		Accelerate integration of COMSATCOM capabilities		[10,000]
122	1206853F	NATIONAL SECURITY SPACE LAUNCH PROGRAM (SPACE)—EMD.	432,009	432,009
		SUBTOTAL SYSTEM DEVELOPMENT & DEMONSTRATION.	**6,929,243**	**6,199,043**
		MANAGEMENT SUPPORT		
123	0604256F	THREAT SIMULATOR DEVELOPMENT	59,693	59,693
124	0604759F	MAJOR T&E INVESTMENT	181,663	183,663
		Telemetry extension SATCOM relay		[2,000]
125	0605101F	RAND PROJECT AIR FORCE	35,258	35,258
127	0605712F	INITIAL OPERATIONAL TEST & EVALUATION	13,793	13,793
128	0605807F	TEST AND EVALUATION SUPPORT	717,895	743,395
		Overwater range telemetry improvements		[25,500]
129	0605826F	ACQ WORKFORCE- GLOBAL POWER	258,667	258,667
130	0605827F	ACQ WORKFORCE- GLOBAL VIG & COMBAT SYS	251,992	251,992
131	0605828F	ACQ WORKFORCE- GLOBAL REACH	149,191	149,191
132	0605829F	ACQ WORKFORCE- CYBER, NETWORK, & BUS SYS	235,360	235,360
133	0605830F	ACQ WORKFORCE- GLOBAL BATTLE MGMT	160,196	160,196
134	0605831F	ACQ WORKFORCE- CAPABILITY INTEGRATION	220,255	220,255
135	0605832F	ACQ WORKFORCE- ADVANCED PRGM TECHNOLOGY	42,392	42,392
136	0605833F	ACQ WORKFORCE- NUCLEAR SYSTEMS	133,231	133,231
137	0605898F	MANAGEMENT HQ—R&D	5,590	5,590
138	0605976F	FACILITIES RESTORATION AND MODERNIZATION—TEST AND EVALUATION SUPPORT.	88,445	88,445
139	0605978F	FACILITIES SUSTAINMENT—TEST AND EVALUATION SUPPORT.	29,424	29,424
140	0606017F	REQUIREMENTS ANALYSIS AND MATURATION	62,715	62,715
141	0606398F	MANAGEMENT HQ—T&E	5,013	5,013
142	0308602F	ENTEPRISE INFORMATION SERVICES (EIS)	17,128	17,128
143	0702806F	ACQUISITION AND MANAGEMENT SUPPORT	5,913	5,913
144	0804731F	GENERAL SKILL TRAINING	1,475	1,475
146	1001004F	INTERNATIONAL ACTIVITIES	4,071	4,071
147	1206116F	SPACE TEST AND TRAINING RANGE DEVELOPMENT	19,942	14,942
		Unjustified growth		[–5,000]
148	1206392F	SPACE AND MISSILE CENTER (SMC) CIVILIAN WORKFORCE	167,810	167,810
149	1206398F	SPACE & MISSILE SYSTEMS CENTER—MHA	10,170	10,170
150	1206860F	ROCKET SYSTEMS LAUNCH PROGRAM (SPACE)	13,192	23,192
		Small rockets launch services		[10,000]
151	1206864F	SPACE TEST PROGRAM (STP)	26,097	29,097
		Small launch		[3,000]
		SUBTOTAL MANAGEMENT SUPPORT	**2,916,571**	**2,952,071**
		OPERATIONAL SYSTEMS DEVELOPMENT		
152	0604003F	ADVANCED BATTLE MANAGEMENT SYSTEM (ABMS)	35,611	20,011
		Program increase—sensor fusion and artificial intelligence technology.		[10,000]
		Unjustified request		[–25,600]
154	0604233F	SPECIALIZED UNDERGRADUATE FLIGHT TRAINING	2,584	2,584
155	0604445F	WIDE AREA SURVEILLANCE	0	20,000
		Program increase		[20,000]
156	0604776F	DEPLOYMENT & DISTRIBUTION ENTERPRISE R&D	903	903
157	0604840F	F–35 C2D2	694,455	694,455
158	0605018F	AF INTEGRATED PERSONNEL AND PAY SYSTEM (AF-IPPS)	40,567	40,567
159	0605024F	ANTI-TAMPER TECHNOLOGY EXECUTIVE AGENCY	47,193	47,193
160	0605117F	FOREIGN MATERIEL ACQUISITION AND EXPLOITATION	70,083	70,083
161	0605278F	HC/MC–130 RECAP RDT&E	17,218	17,218
162	0606018F	NC3 INTEGRATION	25,917	25,917
164	0101113F	B–52 SQUADRONS	325,974	325,974
165	0101122F	AIR-LAUNCHED CRUISE MISSILE (ALCM)	10,217	10,217
166	0101126F	B–1B SQUADRONS	1,000	1,000
167	0101127F	B–2 SQUADRONS	97,276	97,276
168	0101213F	MINUTEMAN SQUADRONS	128,961	106,939
		Technical adjustment for NC3		[–22,022]
170	0101316F	WORLDWIDE JOINT STRATEGIC COMMUNICATIONS	18,177	18,177
171	0101324F	INTEGRATED STRATEGIC PLANNING & ANALYSIS NETWORK.	24,261	24,261
172	0101328F	ICBM REENTRY VEHICLES	75,571	75,571
174	0102110F	UH–1N REPLACEMENT PROGRAM	170,975	170,975
176	0205219F	MQ–9 UAV	154,996	154,996
178	0207131F	A–10 SQUADRONS	36,816	36,816
179	0207133F	F–16 SQUADRONS	193,013	193,013
180	0207134F	F–15E SQUADRONS	336,079	317,779

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		Unjustified F–15C requirements		[–18,300]
181	0207136F	MANNED DESTRUCTIVE SUPPRESSION	15,521	15,521
182	0207138F	F–22A SQUADRONS	496,298	442,498
		Excess to requirements		[–23,800]
		Prior-year carryover		[–30,000]
183	0207142F	F–35 SQUADRONS	99,943	99,943
184	0207161F	TACTICAL AIM MISSILES	10,314	10,314
185	0207163F	ADVANCED MEDIUM RANGE AIR-TO-AIR MISSILE (AMRAAM)	55,384	55,384
186	0207227F	COMBAT RESCUE—PARARESCUE	281	281
187	0207247F	AF TENCAP	21,365	21,365
188	0207249F	PRECISION ATTACK SYSTEMS PROCUREMENT	10,696	10,696
189	0207253F	COMPASS CALL	15,888	15,888
190	0207268F	AIRCRAFT ENGINE COMPONENT IMPROVEMENT PROGRAM	112,505	107,505
		Prior-year carryover (F–35)		[–5,000]
191	0207325F	JOINT AIR-TO-SURFACE STANDOFF MISSILE (JASSM)	78,498	78,498
192	0207410F	AIR & SPACE OPERATIONS CENTER (AOC)	114,864	104,864
		Unjustified request		[–10,000]
193	0207412F	CONTROL AND REPORTING CENTER (CRC)	8,109	8,109
194	0207417F	AIRBORNE WARNING AND CONTROL SYSTEM (AWACS)	67,996	61,209
		Excess to need		[–6,787]
195	0207418F	TACTICAL AIRBORNE CONTROL SYSTEMS	2,462	2,462
197	0207431F	COMBAT AIR INTELLIGENCE SYSTEM ACTIVITIES	13,668	13,668
198	0207444F	TACTICAL AIR CONTROL PARTY-MOD	6,217	6,217
200	0207452F	DCAPES	19,910	19,910
201	0207573F	NATIONAL TECHNICAL NUCLEAR FORENSICS	1,788	1,788
202	0207590F	SEEK EAGLE	28,237	28,237
203	0207601F	USAF MODELING AND SIMULATION	15,725	15,725
204	0207605F	WARGAMING AND SIMULATION CENTERS	4,316	4,316
205	0207610F	BATTLEFIELD ABN COMM NODE (BACN)	26,946	26,946
206	0207697F	DISTRIBUTED TRAINING AND EXERCISES	4,303	4,303
207	0208006F	MISSION PLANNING SYSTEMS	71,465	71,465
208	0208007F	TACTICAL DECEPTION	7,446	7,446
209	0208064F	OPERATIONAL HQ—CYBER	7,602	7,602
210	0208087F	DISTRIBUTED CYBER WARFARE OPERATIONS	35,178	35,178
211	0208088F	AF DEFENSIVE CYBERSPACE OPERATIONS	16,609	16,609
212	0208097F	JOINT CYBER COMMAND AND CONTROL (JCC2)	11,603	11,603
213	0208099F	UNIFIED PLATFORM (UP)	84,702	84,702
219	0301025F	GEOBASE	2,723	2,723
220	0301112F	NUCLEAR PLANNING AND EXECUTION SYSTEM (NPES)	44,190	44,190
226	0301401F	AIR FORCE SPACE AND CYBER NON-TRADITIONAL ISR FOR BATTLESPACE AWARENESS.	3,575	3,575
227	0302015F	E–4B NATIONAL AIRBORNE OPERATIONS CENTER (NAOC)	70,173	70,173
228	0303131F	MINIMUM ESSENTIAL EMERGENCY COMMUNICATIONS NETWORK (MEECN).	13,543	28,543
		Advanced concept development—NC3 demonstration and evaluation.		[15,000]
229	0303133F	HIGH FREQUENCY RADIO SYSTEMS	15,881	1,881
		Prior-year carryover		[–14,000]
230	0303140F	INFORMATION SYSTEMS SECURITY PROGRAM	27,726	27,726
232	0303142F	GLOBAL FORCE MANAGEMENT—DATA INITIATIVE	2,210	2,210
234	0304115F	MULTI DOMAIN COMMAND AND CONTROL (MDC2)	150,880	100,880
		Unjustified growth		[–50,000]
235	0304260F	AIRBORNE SIGINT ENTERPRISE	102,667	94,167
		Common development ahead of need		[–8,500]
236	0304310F	COMMERCIAL ECONOMIC ANALYSIS	3,431	3,431
239	0305015F	C2 AIR OPERATIONS SUITE—C2 INFO SERVICES	9,313	9,313
240	0305020F	CCMD INTELLIGENCE INFORMATION TECHNOLOGY	1,121	1,121
241	0305022F	ISR MODERNIZATION & AUTOMATION DVMT (IMAD)	19,000	3,000
		Unjustified request		[–16,000]
242	0305099F	GLOBAL AIR TRAFFIC MANAGEMENT (GATM)	4,544	4,544
243	0305111F	WEATHER SERVICE	25,461	27,461
		Commercial weather data pilot		[2,000]
244	0305114F	AIR TRAFFIC CONTROL, APPROACH, AND LANDING SYSTEM (ATCALS).	5,651	5,651
245	0305116F	AERIAL TARGETS	7,448	7,448
248	0305128F	SECURITY AND INVESTIGATIVE ACTIVITIES	425	425
249	0305145F	ARMS CONTROL IMPLEMENTATION	54,546	54,546
250	0305146F	DEFENSE JOINT COUNTERINTELLIGENCE ACTIVITIES	6,858	6,858
252	0305179F	INTEGRATED BROADCAST SERVICE (IBS)	8,728	8,728
253	0305202F	DRAGON U–2	38,939	38,939
255	0305206F	AIRBORNE RECONNAISSANCE SYSTEMS	122,909	132,909
		Program increase for Gorgon Stare sensor enhancements		[10,000]
256	0305207F	MANNED RECONNAISSANCE SYSTEMS	11,787	11,787
257	0305208F	DISTRIBUTED COMMON GROUND/SURFACE SYSTEMS	25,009	25,009
258	0305220F	RQ–4 UAV	191,733	173,883
		Unjustified request		[–17,850]
259	0305221F	NETWORK-CENTRIC COLLABORATIVE TARGETING	10,757	10,757
260	0305238F	NATO AGS	32,567	32,567

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261	0305240F	SUPPORT TO DCGS ENTERPRISE	37,774	37,774
262	0305600F	INTERNATIONAL INTELLIGENCE TECHNOLOGY AND ARCHITECTURES.	13,515	13,515
263	0305881F	RAPID CYBER ACQUISITION	4,383	4,383
264	0305984F	PERSONNEL RECOVERY COMMAND & CTRL (PRC2)	2,133	2,133
265	0307577F	INTELLIGENCE MISSION DATA (IMD)	8,614	8,614
266	0401115F	C–130 AIRLIFT SQUADRON	140,425	140,425
267	0401119F	C–5 AIRLIFT SQUADRONS (IF)	10,223	10,223
268	0401130F	C–17 AIRCRAFT (IF)	25,101	25,101
269	0401132F	C–130J PROGRAM	8,640	8,640
270	0401134F	LARGE AIRCRAFT IR COUNTERMEASURES (LAIRCM)	5,424	5,424
272	0401219F	KC–10S	20	20
274	0401318F	CV–22	17,906	17,906
276	0408011F	SPECIAL TACTICS / COMBAT CONTROL	3,629	3,629
277	0702207F	DEPOT MAINTENANCE (NON-IF)	1,890	1,890
278	0708055F	MAINTENANCE, REPAIR & OVERHAUL SYSTEM	10,311	10,311
279	0708610F	LOGISTICS INFORMATION TECHNOLOGY (LOGIT)	16,065	16,065
280	0708611F	SUPPORT SYSTEMS DEVELOPMENT	539	539
281	0804743F	OTHER FLIGHT TRAINING	2,057	2,057
282	0808716F	OTHER PERSONNEL ACTIVITIES	10	10
283	0901202F	JOINT PERSONNEL RECOVERY AGENCY	2,060	2,060
284	0901218F	CIVILIAN COMPENSATION PROGRAM	3,809	3,809
285	0901220F	PERSONNEL ADMINISTRATION	6,476	6,476
286	0901226F	AIR FORCE STUDIES AND ANALYSIS AGENCY	1,443	1,443
287	0901538F	FINANCIAL MANAGEMENT INFORMATION SYSTEMS DEVELOPMENT.	9,323	9,323
288	0901554F	DEFENSE ENTERPRISE ACNTNG AND MGT SYS (DEAMS)	46,789	46,789
289	1201017F	GLOBAL SENSOR INTEGRATED ON NETWORK (GSIN)	3,647	3,647
290	1201921F	SERVICE SUPPORT TO STRATCOM—SPACE ACTIVITIES	988	988
291	1202140F	SERVICE SUPPORT TO SPACECOM ACTIVITIES	11,863	11,863
293	1203001F	FAMILY OF ADVANCED BLOS TERMINALS (FAB-T)	197,388	192,388
		Unjustified growth		[–5,000]
294	1203110F	SATELLITE CONTROL NETWORK (SPACE)	61,891	54,291
		Underexecution of funds and unjustified growth		[–7,600]
297	1203173F	SPACE AND MISSILE TEST AND EVALUATION CENTER	4,566	4,566
298	1203174F	SPACE INNOVATION, INTEGRATION AND RAPID TECHNOLOGY DEVELOPMENT.	43,292	43,292
300	1203182F	SPACELIFT RANGE SYSTEM (SPACE)	10,837	10,837
301	1203265F	GPS III SPACE SEGMENT	42,440	42,440
302	1203400F	SPACE SUPERIORITY INTELLIGENCE	14,428	14,428
303	1203614F	JSPOC MISSION SYSTEM	72,762	51,262
		Unjustified growth		[–21,500]
304	1203620F	NATIONAL SPACE DEFENSE CENTER	2,653	2,653
306	1203873F	BALLISTIC MISSILE DEFENSE RADARS	15,881	15,881
308	1203913F	NUDET DETECTION SYSTEM (SPACE)	49,300	49,300
309	1203940F	SPACE SITUATION AWARENESS OPERATIONS	17,834	17,834
310	1206423F	GLOBAL POSITIONING SYSTEM III—OPERATIONAL CONTROL SEGMENT.	445,302	445,302
311	1206770F	ENTERPRISE GROUND SERVICES	138,870	128,670
		Unjustified growth		[–10,200]
311A	9999999999	CLASSIFIED PROGRAMS	18,351,506	17,998,506
		Classified reduction		[–353,000]
		SUBTOTAL OPERATIONAL SYSTEMS DEVELOPMENT	**24,851,488**	**24,263,329**
		TOTAL RESEARCH, DEVELOPMENT, TEST & EVAL, AF	**45,938,121**	**44,111,784**
		RESEARCH, DEVELOPMENT, TEST & EVAL, DW		
		BASIC RESEARCH		
001	0601000BR	DTRA BASIC RESEARCH	26,000	26,000
002	0601101E	DEFENSE RESEARCH SCIENCES	432,284	432,284
003	0601110D8Z	BASIC RESEARCH INITIATIVES	48,874	58,874
		Program increase		[10,000]
004	0601117E	BASIC OPERATIONAL MEDICAL RESEARCH SCIENCE	54,122	54,122
005	0601120D8Z	NATIONAL DEFENSE EDUCATION PROGRAM	92,074	112,074
		Civics education grant program		[20,000]
006	0601228D8Z	HISTORICALLY BLACK COLLEGES AND UNIVERSITIES/MINORITY INSTITUTIONS.	30,708	50,708
		Program decrease		[–5,000]
		Program increase		[25,000]
007	0601384BP	CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM	45,238	45,238
		SUBTOTAL BASIC RESEARCH	**729,300**	**779,300**
		APPLIED RESEARCH		
008	0602000D8Z	JOINT MUNITIONS TECHNOLOGY	19,306	19,306
009	0602115E	BIOMEDICAL TECHNOLOGY	97,771	97,771
011	0602234D8Z	LINCOLN LABORATORY RESEARCH PROGRAM	52,317	52,317
012	0602251D8Z	APPLIED RESEARCH FOR THE ADVANCEMENT OF S&T PRIORITIES.	62,200	62,200

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013	0602303E	INFORMATION & COMMUNICATIONS TECHNOLOGY	442,556	442,556
014	0602383E	BIOLOGICAL WARFARE DEFENSE	34,588	34,588
015	0602384BP	CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM	202,587	215,087
		Program increase		[12,500]
016	0602668D8Z	CYBER SECURITY RESEARCH	15,118	15,118
017	0602702E	TACTICAL TECHNOLOGY	337,602	337,602
018	0602715E	MATERIALS AND BIOLOGICAL TECHNOLOGY	223,976	223,976
019	0602716E	ELECTRONICS TECHNOLOGY	332,192	332,192
020	0602718BR	COUNTER WEAPONS OF MASS DESTRUCTION APPLIED RESEARCH.	179,096	179,096
021	0602751D8Z	SOFTWARE ENGINEERING INSTITUTE (SEI) APPLIED RESEARCH.	9,580	9,580
022	1160401BB	SOF TECHNOLOGY DEVELOPMENT	40,569	40,569
		SUBTOTAL APPLIED RESEARCH	**2,049,458**	**2,061,958**
		ADVANCED TECHNOLOGY DEVELOPMENT		
023	0603000D8Z	JOINT MUNITIONS ADVANCED TECHNOLOGY	25,779	25,779
024	0603121D8Z	SO/LIC ADVANCED DEVELOPMENT	5,000	5,000
025	0603122D8Z	COMBATING TERRORISM TECHNOLOGY SUPPORT	70,517	79,517
		Counterterrorism detection technologies		[3,000]
		Study of Terrorism and Responses to Terrorism (START)		[6,000]
026	0603133D8Z	FOREIGN COMPARATIVE TESTING	24,970	24,970
028	0603160BR	COUNTER WEAPONS OF MASS DESTRUCTION ADVANCED TECHNOLOGY DEVELOPMENT.	340,065	340,065
029	0603176C	ADVANCED CONCEPTS AND PERFORMANCE ASSESSMENT	14,208	14,208
030	0603178C	WEAPONS TECHNOLOGY	10,000	10,000
031	0603180C	ADVANCED RESEARCH	20,674	27,674
		Advanced carbon-carbon composites manufacturing		[7,000]
032	0603225D8Z	JOINT DOD-DOE MUNITIONS TECHNOLOGY DEVELOPMENT	18,773	18,773
033	0603286E	ADVANCED AEROSPACE SYSTEMS	279,741	279,741
034	0603287E	SPACE PROGRAMS AND TECHNOLOGY	202,606	202,606
035	0603288D8Z	ANALYTIC ASSESSMENTS	19,429	19,429
036	0603289D8Z	ADVANCED INNOVATIVE ANALYSIS AND CONCEPTS	37,645	37,645
037	0603291D8Z	ADVANCED INNOVATIVE ANALYSIS AND CONCEPTS—MHA	14,668	14,668
038	0603294C	COMMON KILL VEHICLE TECHNOLOGY	13,600	13,600
040	0603342D8Z	DEFENSE INNOVATION UNIT (DIU)	29,398	29,398
041	0603375D8Z	TECHNOLOGY INNOVATION	60,000	44,000
		Program decrease		[–16,000]
042	0603384BP	CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM—ADVANCED DEVELOPMENT.	172,486	172,486
043	0603527D8Z	RETRACT LARCH	159,688	159,688
044	0603618D8Z	JOINT ELECTRONIC ADVANCED TECHNOLOGY	12,063	17,063
		Joint electromagnetic spectrum operations		[5,000]
045	0603648D8Z	JOINT CAPABILITY TECHNOLOGY DEMONSTRATIONS	107,359	107,359
046	0603662D8Z	NETWORKED COMMUNICATIONS CAPABILITIES	2,858	2,858
047	0603680D8Z	DEFENSE-WIDE MANUFACTURING SCIENCE AND TECHNOLOGY PROGRAM.	96,397	116,397
		Additive manufacturing		[10,000]
		Integrated silicon based lasers		[5,000]
		Program increase		[5,000]
048	0603680S	MANUFACTURING TECHNOLOGY PROGRAM	42,834	42,834
049	0603699D8Z	EMERGING CAPABILITIES TECHNOLOGY DEVELOPMENT	80,911	80,911
050	0603712S	GENERIC LOGISTICS R&D TECHNOLOGY DEMONSTRATIONS	10,817	10,817
051	0603716D8Z	STRATEGIC ENVIRONMENTAL RESEARCH PROGRAM	66,157	66,157
052	0603720S	MICROELECTRONICS TECHNOLOGY DEVELOPMENT AND SUPPORT.	171,771	171,771
053	0603727D8Z	JOINT WARFIGHTING PROGRAM	4,846	4,846
054	0603739E	ADVANCED ELECTRONICS TECHNOLOGIES	128,616	128,616
055	0603760E	COMMAND, CONTROL AND COMMUNICATIONS SYSTEMS	232,134	232,134
056	0603766E	NETWORK-CENTRIC WARFARE TECHNOLOGY	512,424	512,424
057	0603767E	SENSOR TECHNOLOGY	163,903	163,903
058	0603769D8Z	DISTRIBUTED LEARNING ADVANCED TECHNOLOGY DEVELOPMENT.	13,723	13,723
059	0603781D8Z	SOFTWARE ENGINEERING INSTITUTE	15,111	15,111
060	0603826D8Z	QUICK REACTION SPECIAL PROJECTS	47,147	47,147
061	0603833D8Z	ENGINEERING SCIENCE & TECHNOLOGY	19,376	19,376
062	0603924D8Z	HIGH ENERGY LASER ADVANCED TECHNOLOGY PROGRAM	85,223	85,223
063	0603941D8Z	TEST & EVALUATION SCIENCE & TECHNOLOGY	175,574	180,574
		UAV hypersonic test range		[5,000]
064	0603950D8Z	NATIONAL SECURITY INNOVATION NETWORK	25,000	30,000
		Hacking for defense		[5,000]
065	0604055D8Z	OPERATIONAL ENERGY CAPABILITY IMPROVEMENT	70,536	70,536
066	0303310D8Z	CWMD SYSTEMS	28,907	28,907
068	1160402BB	SOF ADVANCED TECHNOLOGY DEVELOPMENT	89,154	89,154
069	1206310SDA	SPACE SCIENCE AND TECHNOLOGY RESEARCH AND DEVELOPMENT.	20,000	41,500
		Program increase for commercial SSA; funds transferred from JSPOC Mission System.		[21,500]

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Line	Program Element	Item	FY 2020 Request	House Authorized
		SUBTOTAL ADVANCED TECHNOLOGY DEVELOPMENT.	**3,742,088**	**3,798,588**
		ADVANCED COMPONENT DEVELOPMENT AND PROTOTYPES		
070	0603161D8Z	NUCLEAR AND CONVENTIONAL PHYSICAL SECURITY EQUIPMENT RDT&E ADC&P.	42,695	42,695
071	0603600D8Z	WALKOFF	92,791	92,791
072	0603821D8Z	ACQUISITION ENTERPRISE DATA & INFORMATION SERVICES.	5,659	5,659
073	0603851D8Z	ENVIRONMENTAL SECURITY TECHNICAL CERTIFICATION PROGRAM.	66,572	66,572
074	0603881C	BALLISTIC MISSILE DEFENSE TERMINAL DEFENSE SEGMENT.	302,761	302,761
075	0603882C	BALLISTIC MISSILE DEFENSE MIDCOURSE DEFENSE SEGMENT.	1,156,506	960,506
		GBSD booster engineering		[–15,000]
		Unjustified program growth		[–181,000]
076	0603884BP	CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM—DEM/VAL.	83,662	83,662
077	0603884C	BALLISTIC MISSILE DEFENSE SENSORS	283,487	283,487
078	0603890C	BMD ENABLING PROGRAMS	571,507	570,476
		Rescope FTM–44—Conduct IRBM test		[–1,031]
079	0603891C	SPECIAL PROGRAMS—MDA	377,098	504,098
		Classified reduction		[–8,000]
		Classified unfunded priority		[135,000]
080	0603892C	AEGIS BMD	727,479	702,479
		Unjustified cost growth		[–25,000]
081	0603896C	BALLISTIC MISSILE DEFENSE COMMAND AND CONTROL, BATTLE MANAGEMENT AND COMMUNICATI.	564,206	561,706
		IBCS integration delays		[–1,500]
		Rescope FTM–44—Conduct IRBM test		[–1,000]
082	0603898C	BALLISTIC MISSILE DEFENSE JOINT WARFIGHTER SUPPORT.	51,532	51,532
083	0603904C	MISSILE DEFENSE INTEGRATION & OPERATIONS CENTER (MDIOC).	56,161	56,161
084	0603906C	REGARDING TRENCH	22,424	22,424
085	0603907C	SEA BASED X-BAND RADAR (SBX)	128,156	128,156
086	0603913C	ISRAELI COOPERATIVE PROGRAMS	300,000	300,000
087	0603914C	BALLISTIC MISSILE DEFENSE TEST	395,924	393,356
		Rescope FTM–44—Conduct IRBM test		[–2,568]
088	0603915C	BALLISTIC MISSILE DEFENSE TARGETS	554,171	554,171
089	0603920D8Z	HUMANITARIAN DEMINING	10,820	15,820
		Program increase		[5,000]
090	0603923D8Z	COALITION WARFARE	11,316	11,316
091	0604016D8Z	DEPARTMENT OF DEFENSE CORROSION PROGRAM	3,365	3,365
092	0604115C	TECHNOLOGY MATURATION INITIATIVES	303,458	301,122
		Cancel Neutral Particle Beam		[–34,000]
		Increase to low power laser demonstrator		[35,000]
		Rescope FTM–44—Conduct IRBM test		[–3,336]
093	0604132D8Z	MISSILE DEFEAT PROJECT	17,816	7,816
		Lack of justification—program transitioned to military services		[–10,000]
095	0604181C	HYPERSONIC DEFENSE	157,425	157,425
096	0604250D8Z	ADVANCED INNOVATIVE TECHNOLOGIES	1,312,735	1,104,585
		Program decrease		[–58,150]
		Realign to 0604011D8Z, Next Generation Information Technology		[–50,000]
		Undistributed		[–100,000]
097	0604294D8Z	TRUSTED & ASSURED MICROELECTRONICS	542,421	542,421
098	0604331D8Z	RAPID PROTOTYPING PROGRAM	100,957	100,957
099	0604341D8Z	DEFENSE INNOVATION UNIT (DIU) PROTOTYPING	92,000	17,000
		Insufficient budget justification for national security innovation capital.		[–75,000]
100	0604400D8Z	DEPARTMENT OF DEFENSE (DOD) UNMANNED SYSTEM COMMON DEVELOPMENT.	3,021	3,021
102	0604672C	HOMELAND DEFENSE RADAR—HAWAII (HDR-H)	274,714	274,714
103	0604673C	PACIFIC DISCRIMINATING RADAR	6,711	6,711
104	0604682D8Z	WARGAMING AND SUPPORT FOR STRATEGIC ANALYSIS (SSA).	3,751	3,751
105	0604775BR	DEFENSE RAPID INNOVATION PROGRAM	14,021	14,021
107	0604826J	JOINT C5 CAPABILITY DEVELOPMENT, INTEGRATION AND INTEROPERABILITY ASSESSMENTS.	20,062	20,062
108	0604873C	LONG RANGE DISCRIMINATION RADAR (LRDR)	136,423	136,423
109	0604874C	IMPROVED HOMELAND DEFENSE INTERCEPTORS	412,363	262,363
		Program delays		[–150,000]
110	0604876C	BALLISTIC MISSILE DEFENSE TERMINAL DEFENSE SEGMENT TEST.	25,137	25,137
111	0604878C	AEGIS BMD TEST	169,822	148,740
		Rescope FTM–44—Conduct IRBM test		[–21,082]

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Line	Program Element	Item	FY 2020 Request	House Authorized
112	0604879C	BALLISTIC MISSILE DEFENSE SENSOR TEST	105,530	94,566
		Rescope FTM–44—Conduct IRBM test		[–10,964]
113	0604880C	LAND-BASED SM–3 (LBSM3)	38,352	38,352
115	0604887C	BALLISTIC MISSILE DEFENSE MIDCOURSE SEGMENT TEST	98,139	96,446
		Rescope FTM–44—Conduct IRBM test		[–1,693]
117	0300206R	ENTERPRISE INFORMATION TECHNOLOGY SYSTEMS	1,600	1,600
118	0303191D8Z	JOINT ELECTROMAGNETIC TECHNOLOGY (JET) PROGRAM	3,191	3,191
119	0305103C	CYBER SECURITY INITIATIVE	1,138	1,138
120	1206410SDA	SPACE TECHNOLOGY DEVELOPMENT AND PROTOTYPING	85,000	75,000
		Increase to SDA for multi-GNSS receiver capability development		[20,000]
		Space-based discrimination study		[–15,000]
		Space-based interceptor study		[–15,000]
121	1206893C	SPACE TRACKING & SURVEILLANCE SYSTEM	35,849	35,849
122	1206895C	BALLISTIC MISSILE DEFENSE SYSTEM SPACE PROGRAMS	27,565	135,565
		Hypersonic and Ballistic Tracking Space Sensor		[108,000]
122A	0604011D8Z	NEXT GENERATION INFORMATION COMMUNICATIONS TECHNOLOGY (5G).		175,000
		Program increase		[175,000]
		SUBTOTAL ADVANCED COMPONENT DEVELOPMENT AND PROTOTYPES.	**9,797,493**	**9,496,169**
		SYSTEM DEVELOPMENT AND DEMONSTRATION		
123	0604161D8Z	NUCLEAR AND CONVENTIONAL PHYSICAL SECURITY EQUIPMENT RDT&E SDD.	11,276	11,276
124	0604165D8Z	PROMPT GLOBAL STRIKE CAPABILITY DEVELOPMENT	107,000	0
		Lack of justification—awaiting policy		[–76,000]
		Transfer to RDTE, Army Line 100		[–31,000]
125	0604384BP	CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM—EMD	384,047	384,047
126	0604771D8Z	JOINT TACTICAL INFORMATION DISTRIBUTION SYSTEM (JTIDS).	40,102	43,102
		Cyber maturity model certification program		[3,000]
127	0605000BR	COUNTER WEAPONS OF MASS DESTRUCTION SYSTEMS DEVELOPMENT.	13,100	13,100
128	0605013BL	INFORMATION TECHNOLOGY DEVELOPMENT	3,070	3,070
129	0605021SE	HOMELAND PERSONNEL SECURITY INITIATIVE	7,295	7,295
130	0605022D8Z	DEFENSE EXPORTABILITY PROGRAM	17,615	7,615
		Unjustified growth		[–10,000]
131	0605027D8Z	OUSD(C) IT DEVELOPMENT INITIATIVES	15,653	15,653
132	0605070S	DOD ENTERPRISE SYSTEMS DEVELOPMENT AND DEMONSTRATION.	2,378	2,378
133	0605075D8Z	CMO POLICY AND INTEGRATION	1,618	1,618
134	0605080S	DEFENSE AGENCY INITIATIVES (DAI)—FINANCIAL SYSTEM	27,944	27,944
135	0605090S	DEFENSE RETIRED AND ANNUITANT PAY SYSTEM (DRAS)	6,609	6,609
136	0605210D8Z	DEFENSE-WIDE ELECTRONIC PROCUREMENT CAPABILITIES.	9,619	9,619
137	0605294D8Z	TRUSTED & ASSURED MICROELECTRONICS	175,032	175,032
138	0303140BL	INFORMATION SYSTEMS SECURITY PROGRAM	425	425
139	0303141K	GLOBAL COMBAT SUPPORT SYSTEM	1,578	1,578
140	0305304D8Z	DOD ENTERPRISE ENERGY INFORMATION MANAGEMENT (EEIM).	4,373	4,373
141	0305310D8Z	CWMD SYSTEMS: SYSTEM DEVELOPMENT AND DEMONSTRATION.	12,854	12,854
		SUBTOTAL SYSTEM DEVELOPMENT AND DEMONSTRATION.	**841,588**	**727,588**
		MANAGEMENT SUPPORT		
142	0603829J	JOINT CAPABILITY EXPERIMENTATION	13,000	13,000
143	0604774D8Z	DEFENSE READINESS REPORTING SYSTEM (DRRS)	9,724	9,724
144	0604875D8Z	JOINT SYSTEMS ARCHITECTURE DEVELOPMENT	9,593	9,593
145	0604940D8Z	CENTRAL TEST AND EVALUATION INVESTMENT DEVELOPMENT (CTEIP).	260,267	240,267
		Undistributed		[–20,000]
146	0604942D8Z	ASSESSMENTS AND EVALUATIONS	30,834	30,834
147	0605001E	MISSION SUPPORT	68,498	68,498
148	0605100D8Z	JOINT MISSION ENVIRONMENT TEST CAPABILITY (JMETC)	83,091	83,091
149	0605104D8Z	TECHNICAL STUDIES, SUPPORT AND ANALYSIS	18,079	18,079
150	0605126J	JOINT INTEGRATED AIR AND MISSILE DEFENSE ORGANIZATION (JIAMDO).	70,038	70,038
152	0605142D8Z	SYSTEMS ENGINEERING	37,140	37,140
153	0605151D8Z	STUDIES AND ANALYSIS SUPPORT—OSD	4,759	4,759
154	0605161D8Z	NUCLEAR MATTERS-PHYSICAL SECURITY	8,307	8,307
155	0605170D8Z	SUPPORT TO NETWORKS AND INFORMATION INTEGRATION	9,441	9,441
156	0605200D8Z	GENERAL SUPPORT TO USD (INTELLIGENCE)	1,700	1,700
157	0605384BP	CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM	110,363	110,363
166	0605790D8Z	SMALL BUSINESS INNOVATION RESEARCH (SBIR)/ SMALL BUSINESS TECHNOLOGY TRANSFER.	3,568	3,568
167	0605797D8Z	MAINTAINING TECHNOLOGY ADVANTAGE	19,936	19,936
168	0605798D8Z	DEFENSE TECHNOLOGY ANALYSIS	16,875	19,875

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Line	Program Element	Item	FY 2020 Request	House Authorized
		National Science, Technology, and Security Roundtable with Academia.		[3,000]
169	0605801KA	DEFENSE TECHNICAL INFORMATION CENTER (DTIC)	57,716	57,716
170	0605803SE	R&D IN SUPPORT OF DOD ENLISTMENT, TESTING AND EVALUATION.	34,448	34,448
171	0605804D8Z	DEVELOPMENT TEST AND EVALUATION	22,203	22,203
172	0605898E	MANAGEMENT HQ—R&D	13,208	13,208
173	0605998KA	MANAGEMENT HQ—DEFENSE TECHNICAL INFORMATION CENTER (DTIC).	3,027	3,027
174	0606100D8Z	BUDGET AND PROGRAM ASSESSMENTS	8,017	8,017
175	0606225D8Z	ODNA TECHNOLOGY AND RESOURCE ANALYSIS	3,194	3,194
176	0606589D8W	DEFENSE DIGITAL SERVICE (DDS) DEVELOPMENT SUPPORT.	1,000	1,000
179	0203345D8Z	DEFENSE OPERATIONS SECURITY INITIATIVE (DOSI)	3,037	3,037
180	0204571J	JOINT STAFF ANALYTICAL SUPPORT	9,216	9,216
183	0303166J	SUPPORT TO INFORMATION OPERATIONS (IO) CAPABILITIES.	553	553
184	0303260D8Z	DEFENSE MILITARY DECEPTION PROGRAM OFFICE (DMDPO).	1,014	1,014
185	0305172K	COMBINED ADVANCED APPLICATIONS	58,667	58,667
187	0305245D8Z	INTELLIGENCE CAPABILITIES AND INNOVATION INVESTMENTS.	21,081	21,081
189	0307588D8Z	ALGORITHMIC WARFARE CROSS FUNCTIONAL TEAMS	221,235	221,235
191	0804768J	COCOM EXERCISE ENGAGEMENT AND TRAINING TRANSFORMATION (CE2T2)—NON-MHA.	40,073	40,073
192	0808709SE	DEFENSE EQUAL OPPORTUNITY MANAGEMENT INSTITUTE (DEOMI).	100	100
193	0901598C	MANAGEMENT HQ—MDA	27,065	27,065
194	0903235K	JOINT SERVICE PROVIDER (JSP)	3,090	3,090
194A	9999999999	CLASSIFIED PROGRAMS	51,471	51,471
		SUBTOTAL MANAGEMENT SUPPORT	**1,354,628**	**1,337,628**
		OPERATIONAL SYSTEM DEVELOPMENT		
		UNDISTRIBUTED		
195	0604130V	ENTERPRISE SECURITY SYSTEM (ESS)	7,945	7,945
196	0604532K	JOINT ARTIFICIAL INTELLIGENCE	208,834	166,834
		Early to need		[–42,000]
197	0605127T	REGIONAL INTERNATIONAL OUTREACH (RIO) AND PARTNERSHIP FOR PEACE INFORMATION MANA.	1,947	1,947
198	0605147T	OVERSEAS HUMANITARIAN ASSISTANCE SHARED INFORMATION SYSTEM (OHASIS).	310	310
199	0607210D8Z	INDUSTRIAL BASE ANALYSIS AND SUSTAINMENT SUPPORT	10,051	19,051
		Composite manufacturing technology		[5,000]
		Lithium ion batteries		[4,000]
200	0607310D8Z	CWMD SYSTEMS: OPERATIONAL SYSTEMS DEVELOPMENT	12,734	12,734
201	0607327T	GLOBAL THEATER SECURITY COOPERATION MANAGEMENT INFORMATION SYSTEMS (G-TSCMIS).	14,800	14,800
202	0607384BP	CHEMICAL AND BIOLOGICAL DEFENSE (OPERATIONAL SYSTEMS DEVELOPMENT).	54,023	54,023
203	0208043J	PLANNING AND DECISION AID SYSTEM (PDAS)	4,537	4,537
204	0208045K	C4I INTEROPERABILITY	64,122	64,122
210	0302019K	DEFENSE INFO INFRASTRUCTURE ENGINEERING AND INTEGRATION.	15,798	15,798
211	0303126K	LONG-HAUL COMMUNICATIONS—DCS	11,166	11,166
212	0303131K	MINIMUM ESSENTIAL EMERGENCY COMMUNICATIONS NETWORK (MEECN).	17,383	17,383
214	0303136G	KEY MANAGEMENT INFRASTRUCTURE (KMI)	54,516	54,516
215	0303140D8Z	INFORMATION SYSTEMS SECURITY PROGRAM	67,631	89,631
		Cyber institutes for senior military colleges		[12,000]
		Implementation of Cyber Excepted Service		[10,000]
216	0303140G	INFORMATION SYSTEMS SECURITY PROGRAM	289,080	287,198
		Realignment to DISA for Sharkseer		[–1,882]
217	0303140K	INFORMATION SYSTEMS SECURITY PROGRAM	42,796	44,678
		Realignment for Sharkseer		[1,882]
218	0303150K	GLOBAL COMMAND AND CONTROL SYSTEM	25,218	25,218
219	0303153K	DEFENSE SPECTRUM ORGANIZATION	21,698	21,698
220	0303228K	JOINT REGIONAL SECURITY STACKS (JRSS)	18,077	18,077
222	0303430K	FEDERAL INVESTIGATIVE SERVICES INFORMATION TECHNOLOGY.	44,001	44,001
228	0305128V	SECURITY AND INVESTIGATIVE ACTIVITIES	2,400	2,400
232	0305186D8Z	POLICY R&D PROGRAMS	6,301	6,301
233	0305199D8Z	NET CENTRICITY	21,384	21,384
235	0305208BB	DISTRIBUTED COMMON GROUND/SURFACE SYSTEMS	6,359	6,359
238	0305208K	DISTRIBUTED COMMON GROUND/SURFACE SYSTEMS	2,981	2,981
241	0305327V	INSIDER THREAT	1,964	1,964
242	0305387D8Z	HOMELAND DEFENSE TECHNOLOGY TRANSFER PROGRAM	2,221	2,221
250	0708012K	LOGISTICS SUPPORT ACTIVITIES	1,361	1,361
251	0708012S	PACIFIC DISASTER CENTERS	1,770	1,770

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Line	Program Element	Item	FY 2020 Request	House Authorized
252	0708047S	DEFENSE PROPERTY ACCOUNTABILITY SYSTEM	3,679	3,679
254	1105219BB	MQ–9 UAV	20,697	20,697
256	1160403BB	AVIATION SYSTEMS	245,795	263,021
		Program increase—Future Vertical Lift		[8,800]
		Program increase—RFCM		[8,426]
257	1160405BB	INTELLIGENCE SYSTEMS DEVELOPMENT	15,484	15,484
258	1160408BB	OPERATIONAL ENHANCEMENTS	166,922	166,922
259	1160431BB	WARRIOR SYSTEMS	62,332	62,332
260	1160432BB	SPECIAL PROGRAMS	21,805	21,805
261	1160434BB	UNMANNED ISR	37,377	37,377
262	1160480BB	SOF TACTICAL VEHICLES	11,150	11,150
263	1160483BB	MARITIME SYSTEMS	72,626	72,626
264	1160489BB	GLOBAL VIDEO SURVEILLANCE ACTIVITIES	5,363	5,363
265	1160490BB	OPERATIONAL ENHANCEMENTS INTELLIGENCE	12,962	12,962
266	1203610K	TELEPORT PROGRAM	6,158	6,158
266A	9999999999	CLASSIFIED PROGRAMS	4,542,640	4,542,640
		SUBTOTAL OPERATIONAL SYSTEM DEVELOPMENT	**6,258,398**	**6,383,624**
267A	9999999999	UNDISTRIBUTED		119,000
		Transfer to NRO for weather satellite procurement to mitigate weather capability gaps risk in 2022–2023.		[119,000]
		SUBTOTAL UNDISTRIBUTED		**125,226**
		TOTAL RESEARCH, DEVELOPMENT, TEST & EVAL, DW.	**24,772,953**	**24,584,855**
		OPERATIONAL TEST & EVAL, DEFENSE MANAGEMENT SUPPORT		
001	0605118OTE	OPERATIONAL TEST AND EVALUATION	93,291	93,291
002	0605131OTE	LIVE FIRE TEST AND EVALUATION	69,172	69,172
003	0605814OTE	OPERATIONAL TEST ACTIVITIES AND ANALYSES	58,737	58,737
		SUBTOTAL MANAGEMENT SUPPORT	**221,200**	**221,200**
		TOTAL OPERATIONAL TEST & EVAL, DEFENSE	**221,200**	**221,200**
		TOTAL RDT&E	**103,395,544**	**100,787,668**

SEC. 4202. RESEARCH, DEVELOPMENT, TEST, AND EVALUATION FOR OVERSEAS CONTINGENCY OPERATIONS.

SEC. 4202. RESEARCH, DEVELOPMENT, TEST, AND EVALUATION FOR OVERSEAS CONTINGENCY OPERATIONS
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Line	Program Element	Item	FY 2020 Request	House Authorized
		RESEARCH, DEVELOPMENT, TEST & EVAL, ARMY		
		ADVANCED COMPONENT DEVELOPMENT & PROTOTYPES		
074	0603327A	AIR AND MISSILE DEFENSE SYSTEMS ENGINEERING	500	500
079	0603747A	SOLDIER SUPPORT AND SURVIVABILITY	3,000	3,000
085	0603804A	LOGISTICS AND ENGINEER EQUIPMENT—ADV DEV	1,085	1,085
095	0604117A	MANEUVER—SHORT RANGE AIR DEFENSE (M-SHORAD)	6,000	0
		Unjustified request		[–6,000]
097	0604119A	ARMY ADVANCED COMPONENT DEVELOPMENT & PROTOTYPING.	4,529	4,529
105	0604785A	INTEGRATED BASE DEFENSE (BUDGET ACTIVITY 4)	2,000	0
		Unjustified request		[–2,000]
		SUBTOTAL ADVANCED COMPONENT DEVELOPMENT & PROTOTYPES.	**17,114**	**9,114**
		SYSTEM DEVELOPMENT & DEMONSTRATION		
151	0605035A	COMMON INFRARED COUNTERMEASURES (CIRCM)	11,770	11,770
159	0605051A	AIRCRAFT SURVIVABILITY DEVELOPMENT	77,420	77,420
163	0605203A	ARMY SYSTEM DEVELOPMENT & DEMONSTRATION	19,527	19,527
174	0304270A	ELECTRONIC WARFARE DEVELOPMENT	3,200	3,200
		SUBTOTAL SYSTEM DEVELOPMENT & DEMONSTRATION.	**111,917**	**111,917**
		RDT&E MANAGEMENT SUPPORT		
200	0606003A	COUNTERINTEL AND HUMAN INTEL MODERNIZATION	1,875	1,875
		SUBTOTAL RDT&E MANAGEMENT SUPPORT	**1,875**	**1,875**

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Line	Program Element	Item	FY 2020 Request	House Authorized
		OPERATIONAL SYSTEMS DEVELOPMENT		
238	0303028A	SECURITY AND INTELLIGENCE ACTIVITIES	22,904	22,904
246	0305204A	TACTICAL UNMANNED AERIAL VEHICLES	34,100	34,100
247	0305206A	AIRBORNE RECONNAISSANCE SYSTEMS	14,000	14,000
252	0307665A	BIOMETRICS ENABLED INTELLIGENCE	2,214	2,214
		SUBTOTAL OPERATIONAL SYSTEMS DEVELOPMENT	**73,218**	**73,218**
		TOTAL RESEARCH, DEVELOPMENT, TEST & EVAL, ARMY.	**204,124**	**196,124**
		RESEARCH, DEVELOPMENT, TEST & EVAL, NAVY		
		ADVANCED COMPONENT DEVELOPMENT & PROTOTYPES		
028	0603207N	AIR/OCEAN TACTICAL APPLICATIONS	2,400	2,400
038	0603527N	RETRACT LARCH	22,000	22,000
057	0603654N	JOINT SERVICE EXPLOSIVE ORDNANCE DEVELOPMENT	14,178	14,178
069	0603795N	LAND ATTACK TECHNOLOGY	1,428	1,428
		SUBTOTAL ADVANCED COMPONENT DEVELOPMENT & PROTOTYPES.	**40,006**	**40,006**
		SYSTEM DEVELOPMENT & DEMONSTRATION		
143	0604755N	SHIP SELF DEFENSE (DETECT & CONTROL)	1,122	1,122
		SUBTOTAL SYSTEM DEVELOPMENT & DEMONSTRATION.	**1,122**	**1,122**
		OPERATIONAL SYSTEMS DEVELOPMENT		
228	0206313M	MARINE CORPS COMMUNICATIONS SYSTEMS	15,000	15,000
259A	9999999999	CLASSIFIED PROGRAMS	108,282	108,282
		SUBTOTAL OPERATIONAL SYSTEMS DEVELOPMENT	**123,282**	**123,282**
		TOTAL RESEARCH, DEVELOPMENT, TEST & EVAL, NAVY.	**164,410**	**164,410**
		RESEARCH, DEVELOPMENT, TEST & EVAL, AF		
		ADVANCED COMPONENT DEVELOPMENT & PROTOTYPES		
048	0604858F	TECH TRANSITION PROGRAM	26,450	26,450
072	1206857F	SPACE RAPID CAPABILITIES OFFICE	17,885	17,885
		SUBTOTAL ADVANCED COMPONENT DEVELOPMENT & PROTOTYPES.	**44,335**	**44,335**
		OPERATIONAL SYSTEMS DEVELOPMENT		
177	0205671F	JOINT COUNTER RCIED ELECTRONIC WARFARE	4,000	4,000
217	0208288F	INTEL DATA APPLICATIONS	1,200	1,200
311A	9999999999	CLASSIFIED PROGRAMS	78,713	78,713
		SUBTOTAL OPERATIONAL SYSTEMS DEVELOPMENT	**83,913**	**83,913**
		TOTAL RESEARCH, DEVELOPMENT, TEST & EVAL, AF	**128,248**	**128,248**
		RESEARCH, DEVELOPMENT, TEST & EVAL, DW		
		APPLIED RESEARCH		
010	0602134BR	COUNTER IMPROVISED-THREAT ADVANCED STUDIES	1,677	1,677
		SUBTOTAL APPLIED RESEARCH	**1,677**	**1,677**
		ADVANCED TECHNOLOGY DEVELOPMENT		
025	0603122D8Z	COMBATING TERRORISM TECHNOLOGY SUPPORT	25,230	25,230
027	0603134BR	COUNTER IMPROVISED-THREAT SIMULATION	49,528	49,528
		SUBTOTAL ADVANCED TECHNOLOGY DEVELOPMENT	**74,758**	**74,758**
		ADVANCED COMPONENT DEVELOPMENT AND PROTOTYPES		
094	0604134BR	COUNTER IMPROVISED-THREAT DEMONSTRATION, PROTOTYPE DEVELOPMENT, AND TESTING.	113,590	113,590
		SUBTOTAL ADVANCED COMPONENT DEVELOPMENT AND PROTOTYPES.	**113,590**	**113,590**
		OPERATIONAL SYSTEM DEVELOPMENT		
		UNDISTRIBUTED		
258	1160408BB	OPERATIONAL ENHANCEMENTS	726	726
259	1160431BB	WARRIOR SYSTEMS	6,000	6,000
261	1160434BB	UNMANNED ISR	5,000	5,000
266A	9999999999	CLASSIFIED PROGRAMS	200,199	200,199
		SUBTOTAL OPERATIONAL SYSTEM DEVELOPMENT	**211,925**	**211,925**
		TOTAL RESEARCH, DEVELOPMENT, TEST & EVAL, DW	**401,950**	**401,950**
		TOTAL RDT&E	**898,732**	**890,732**

TITLE XLIII—OPERATION AND MAINTENANCE

SEC. 4301. OPERATION AND MAINTENANCE.

SEC. 4301. OPERATION AND MAINTENANCE
(In Thousands of Dollars)

Line	Item	FY 2020 Request	House Authorized
	OPERATION & MAINTENANCE, ARMY		
	OPERATING FORCES		
010	MANEUVER UNITS	1,735,922	1,659,222
	Unjustified growth		[–76,700]
020	MODULAR SUPPORT BRIGADES	127,815	126,515
	Unjustified growth		[–1,300]
030	ECHELONS ABOVE BRIGADE	716,356	709,356
	Unjustified growth		[–7,000]
040	THEATER LEVEL ASSETS	890,891	881,991
	Unjustified growth		[–8,900]
050	LAND FORCES OPERATIONS SUPPORT	1,232,477	1,230,477
	Unjustified growth		[–2,000]
060	AVIATION ASSETS	1,355,606	1,282,106
	Excess to need		[–73,500]
070	FORCE READINESS OPERATIONS SUPPORT	3,882,315	2,659,315
	Excess FTE request		[–38,000]
	Female Personal Protective Equipment		[2,000]
	Realignment to OCO		[–1,100,000]
	Unjustified growth		[–12,000]
	Unjustified transfer		[–75,000]
080	LAND FORCES SYSTEMS READINESS	417,069	417,069
090	LAND FORCES DEPOT MAINTENANCE	1,633,327	1,633,327
100	BASE OPERATIONS SUPPORT	8,047,933	8,002,933
	Unjustified growth		[–45,000]
110	FACILITIES SUSTAINMENT, RESTORATION & MODERNIZATION	4,326,840	4,051,840
	Unexecutable growth		[–275,000]
120	MANAGEMENT AND OPERATIONAL HEADQUARTERS	405,612	405,612
160	US AFRICA COMMAND	251,511	251,511
170	US EUROPEAN COMMAND	146,358	146,358
180	US SOUTHERN COMMAND	191,840	218,340
	Multi-Mission Support Vessel		[18,000]
	Overland airborne ISR operations		[8,500]
190	US FORCES KOREA	57,603	57,603
200	CYBERSPACE ACTIVITIES—CYBERSPACE OPERATIONS	423,156	423,156
210	CYBERSPACE ACTIVITIES—CYBERSECURITY	551,185	551,185
	SUBTOTAL OPERATING FORCES	**26,393,816**	**24,707,916**
	MOBILIZATION		
220	STRATEGIC MOBILITY	380,577	380,577
230	ARMY PREPOSITIONED STOCKS	362,942	362,942
240	INDUSTRIAL PREPAREDNESS	4,637	4,637
	SUBTOTAL MOBILIZATION	**748,156**	**748,156**
	TRAINING AND RECRUITING		
250	OFFICER ACQUISITION	157,175	157,175
260	RECRUIT TRAINING	55,739	55,739
270	ONE STATION UNIT TRAINING	62,300	62,300
280	SENIOR RESERVE OFFICERS TRAINING CORPS	538,357	538,357
290	SPECIALIZED SKILL TRAINING	969,813	969,813
300	FLIGHT TRAINING	1,234,049	1,209,049
	Changes to AH–64E Program		[–25,000]
310	PROFESSIONAL DEVELOPMENT EDUCATION	218,338	218,338
320	TRAINING SUPPORT	554,659	550,659
	Excess travel request		[–4,000]
330	RECRUITING AND ADVERTISING	716,056	716,056
340	EXAMINING	185,034	185,034
350	OFF-DUTY AND VOLUNTARY EDUCATION	214,275	214,275
360	CIVILIAN EDUCATION AND TRAINING	147,647	147,647
370	JUNIOR RESERVE OFFICER TRAINING CORPS	173,812	173,812
	SUBTOTAL TRAINING AND RECRUITING	**5,227,254**	**5,198,254**

SEC. 4301. OPERATION AND MAINTENANCE
(In Thousands of Dollars)

Line	Item	FY 2020 Request	House Authorized
	ADMIN & SRVWIDE ACTIVITIES		
390	SERVICEWIDE TRANSPORTATION	559,229	559,229
400	CENTRAL SUPPLY ACTIVITIES	929,944	927,944
	Excess personnel		[–2,000]
410	LOGISTIC SUPPORT ACTIVITIES	629,981	629,981
420	AMMUNITION MANAGEMENT	458,771	458,771
430	ADMINISTRATION	428,768	428,768
440	SERVICEWIDE COMMUNICATIONS	1,512,736	1,512,736
450	MANPOWER MANAGEMENT	272,738	272,738
460	OTHER PERSONNEL SUPPORT	391,869	381,869
	Unjustified growth		[–10,000]
470	OTHER SERVICE SUPPORT	1,901,165	1,896,080
	Unjustified headquarters growth		[–5,085]
480	ARMY CLAIMS ACTIVITIES	198,765	198,765
490	REAL ESTATE MANAGEMENT	226,248	226,248
500	FINANCIAL MANAGEMENT AND AUDIT READINESS	315,489	310,489
	Unjustified growth to General Fund Enterprise Business System		[–5,000]
510	INTERNATIONAL MILITARY HEADQUARTERS	427,254	427,254
520	MISC. SUPPORT OF OTHER NATIONS	43,248	43,248
565	CLASSIFIED PROGRAMS	1,347,053	1,347,053
	SUBTOTAL ADMIN & SRVWIDE ACTIVITIES	**9,643,258**	**9,621,173**
	UNDISTRIBUTED		
570	UNDISTRIBUTED		–110,000
	Overestimation of Civilian FTE Targets		[–110,000]
	SUBTOTAL UNDISTRIBUTED		**–110,000**
	TOTAL OPERATION & MAINTENANCE, ARMY	**42,012,484**	**40,165,499**
	OPERATION & MAINTENANCE, ARMY RES		
	OPERATING FORCES		
010	MODULAR SUPPORT BRIGADES	11,927	11,927
020	ECHELONS ABOVE BRIGADE	533,015	533,015
030	THEATER LEVEL ASSETS	119,517	118,101
	Insufficient justification		[–1,416]
040	LAND FORCES OPERATIONS SUPPORT	550,468	548,268
	Insufficient justification		[–2,200]
050	AVIATION ASSETS	86,670	85,170
	Unjustified growth		[–1,500]
060	FORCE READINESS OPERATIONS SUPPORT	390,061	388,661
	Excess civilian increase		[–400]
	Excess travel increase		[–1,000]
070	LAND FORCES SYSTEMS READINESS	101,890	101,890
080	LAND FORCES DEPOT MAINTENANCE	48,503	48,503
090	BASE OPERATIONS SUPPORT	598,907	598,907
100	FACILITIES SUSTAINMENT, RESTORATION & MODERNIZATION	444,376	444,376
110	MANAGEMENT AND OPERATIONAL HEADQUARTERS	22,095	22,095
120	CYBERSPACE ACTIVITIES—CYBERSPACE OPERATIONS	3,288	3,288
130	CYBERSPACE ACTIVITIES—CYBERSECURITY	7,655	7,655
	SUBTOTAL OPERATING FORCES	**2,918,372**	**2,911,856**
	ADMIN & SRVWD ACTIVITIES		
140	SERVICEWIDE TRANSPORTATION	14,533	14,533
150	ADMINISTRATION	17,231	17,231
160	SERVICEWIDE COMMUNICATIONS	14,304	14,304
170	MANPOWER MANAGEMENT	6,129	6,129
180	RECRUITING AND ADVERTISING	58,541	58,541
	SUBTOTAL ADMIN & SRVWD ACTIVITIES	**110,738**	**110,738**
	TOTAL OPERATION & MAINTENANCE, ARMY RES	**3,029,110**	**3,022,594**
	OPERATION & MAINTENANCE, ARNG		
	OPERATING FORCES		
010	MANEUVER UNITS	805,671	797,671
	Excess growth		[–8,000]
020	MODULAR SUPPORT BRIGADES	195,334	193,334

SEC. 4301. OPERATION AND MAINTENANCE
(In Thousands of Dollars)

Line	Item	FY 2020 Request	House Authorized
	Excess growth		[–2,000]
030	ECHELONS ABOVE BRIGADE	771,048	770,548
	Excess growth		[–500]
040	THEATER LEVEL ASSETS	94,726	91,826
	Excess growth		[–2,900]
050	LAND FORCES OPERATIONS SUPPORT	33,696	33,696
060	AVIATION ASSETS	981,819	973,819
	Insufficient justification		[–8,000]
070	FORCE READINESS OPERATIONS SUPPORT	743,206	743,206
080	LAND FORCES SYSTEMS READINESS	50,963	50,963
090	LAND FORCES DEPOT MAINTENANCE	258,278	249,778
	Insufficient justification		[–8,500]
100	BASE OPERATIONS SUPPORT	1,153,076	1,121,576
	Insufficient justification		[–31,500]
110	FACILITIES SUSTAINMENT, RESTORATION & MODERNIZATION	1,113,475	1,033,475
	Insufficient justification		[–80,000]
120	MANAGEMENT AND OPERATIONAL HEADQUARTERS	1,001,042	987,042
	Insufficient justification		[–14,000]
130	CYBERSPACE ACTIVITIES—CYBERSPACE OPERATIONS	8,448	8,448
140	CYBERSPACE ACTIVITIES—CYBERSECURITY	7,768	7,768
	SUBTOTAL OPERATING FORCES	**7,218,550**	**7,063,150**
	ADMIN & SRVWD ACTIVITIES		
150	SERVICEWIDE TRANSPORTATION	9,890	9,890
160	ADMINISTRATION	71,070	71,070
170	SERVICEWIDE COMMUNICATIONS	68,213	68,213
180	MANPOWER MANAGEMENT	8,628	8,628
190	OTHER PERSONNEL SUPPORT	250,376	250,376
200	REAL ESTATE MANAGEMENT	2,676	2,676
	SUBTOTAL ADMIN & SRVWD ACTIVITIES	**410,853**	**410,853**
	TOTAL OPERATION & MAINTENANCE, ARNG	**7,629,403**	**7,474,003**
	OPERATION & MAINTENANCE, NAVY		
	OPERATING FORCES		
010	MISSION AND OTHER FLIGHT OPERATIONS	5,309,109	5,029,734
	Excess growth		[–15,000]
	Projected underexecution		[–50,000]
	Realignment to OCO		[–214,375]
020	FLEET AIR TRAINING	2,284,828	2,234,828
	Projected underexecution		[–50,000]
030	AVIATION TECHNICAL DATA & ENGINEERING SERVICES	59,299	59,299
040	AIR OPERATIONS AND SAFETY SUPPORT	155,896	155,896
050	AIR SYSTEMS SUPPORT	719,107	719,107
060	AIRCRAFT DEPOT MAINTENANCE	1,154,181	1,154,181
070	AIRCRAFT DEPOT OPERATIONS SUPPORT	60,402	59,202
	Excess growth		[–1,200]
080	AVIATION LOGISTICS	1,241,421	1,219,421
	Projected underexecution		[–22,000]
090	MISSION AND OTHER SHIP OPERATIONS	4,097,262	3,596,262
	Realignment to OCO		[–450,000]
	Unjustified growth		[–51,000]
100	SHIP OPERATIONS SUPPORT & TRAINING	1,031,792	1,029,792
	Excess civilian growth		[–2,000]
110	SHIP DEPOT MAINTENANCE	8,061,298	8,895,298
	Surface ship maintenance		[161,000]
	USS Boise		[310,000]
	USS Columbus		[57,000]
	USS Hartford		[306,000]
120	SHIP DEPOT OPERATIONS SUPPORT	2,073,641	2,066,141
	Insufficient justification		[–7,500]
130	COMBAT COMMUNICATIONS AND ELECTRONIC WARFARE	1,378,856	1,378,856
140	SPACE SYSTEMS AND SURVEILLANCE	276,245	273,745
	Unjustified growth		[–2,500]
150	WARFARE TACTICS	675,209	675,209
160	OPERATIONAL METEOROLOGY AND OCEANOGRAPHY	389,516	389,516
170	COMBAT SUPPORT FORCES	1,536,310	1,526,310

SEC. 4301. OPERATION AND MAINTENANCE
(In Thousands of Dollars)

Line	Item	FY 2020 Request	House Authorized
	Unjustified growth		[–10,000]
180	EQUIPMENT MAINTENANCE AND DEPOT OPERATIONS SUPPORT	161,579	161,579
190	COMBATANT COMMANDERS CORE OPERATIONS	59,521	59,521
200	COMBATANT COMMANDERS DIRECT MISSION SUPPORT	93,978	93,978
210	MILITARY INFORMATION SUPPORT OPERATIONS	8,641	8,641
220	CYBERSPACE ACTIVITIES	496,385	496,385
230	FLEET BALLISTIC MISSILE	1,423,339	1,423,339
240	WEAPONS MAINTENANCE	924,069	895,032
	Insufficient justification		[–29,037]
250	OTHER WEAPON SYSTEMS SUPPORT	540,210	540,210
260	ENTERPRISE INFORMATION	1,131,627	1,081,627
	Unjustified growth		[–50,000]
270	SUSTAINMENT, RESTORATION AND MODERNIZATION	3,029,634	2,929,634
	Unexecutable growth		[–100,000]
280	BASE OPERATING SUPPORT	4,414,943	4,414,943
	SUBTOTAL OPERATING FORCES	**42,788,298**	**42,567,686**
	MOBILIZATION		
290	SHIP PREPOSITIONING AND SURGE	942,902	668,561
	Realignment to NDSF (DoD mobilization alterations)		[–9,590]
	Realignment to NDSF (LSMR maintenance)		[–264,751]
300	READY RESERVE FORCE	352,044	0
	Realignment to NDSF		[–352,044]
310	SHIP ACTIVATIONS/INACTIVATIONS	427,555	427,555
320	EXPEDITIONARY HEALTH SERVICES SYSTEMS	137,597	40,730
	Realignment to NDSF (TAH maintenance)		[–96,867]
330	COAST GUARD SUPPORT	24,604	24,604
	SUBTOTAL MOBILIZATION	**1,884,702**	**1,161,450**
	TRAINING AND RECRUITING		
340	OFFICER ACQUISITION	150,765	150,765
350	RECRUIT TRAINING	11,584	11,584
360	RESERVE OFFICERS TRAINING CORPS	159,133	159,133
370	SPECIALIZED SKILL TRAINING	911,316	891,316
	Insufficient justification		[–20,000]
380	PROFESSIONAL DEVELOPMENT EDUCATION	185,211	186,261
	Program Increase: Sea Cadets		[1,050]
390	TRAINING SUPPORT	267,224	267,224
400	RECRUITING AND ADVERTISING	209,252	209,252
410	OFF-DUTY AND VOLUNTARY EDUCATION	88,902	88,902
420	CIVILIAN EDUCATION AND TRAINING	67,492	67,492
430	JUNIOR ROTC	55,164	55,164
	SUBTOTAL TRAINING AND RECRUITING	**2,106,043**	**2,087,093**
	ADMIN & SRVWD ACTIVITIES		
440	ADMINISTRATION	1,143,358	1,096,733
	Excess civilian growth		[–14,375]
	Insufficient justification—MHA Transfer		[–25,500]
	Unjustified growth		[–6,750]
450	CIVILIAN MANPOWER AND PERSONNEL MANAGEMENT	178,342	175,342
	Excess civilian growth		[–3,000]
460	MILITARY MANPOWER AND PERSONNEL MANAGEMENT	418,413	418,413
490	SERVICEWIDE TRANSPORTATION	157,465	157,465
510	PLANNING, ENGINEERING, AND PROGRAM SUPPORT	485,397	485,397
520	ACQUISITION, LOGISTICS, AND OVERSIGHT	654,137	654,137
530	INVESTIGATIVE AND SECURITY SERVICES	718,061	718,061
645	CLASSIFIED PROGRAMS	591,535	591,535
	SUBTOTAL ADMIN & SRVWD ACTIVITIES	**4,346,708**	**4,297,083**
	UNDISTRIBUTED		
650	UNDISTRIBUTED		–30,000
	Overestimation of Civilian FTE Targets		[–30,000]
	SUBTOTAL UNDISTRIBUTED		**–30,000**
	TOTAL OPERATION & MAINTENANCE, NAVY	**51,125,751**	**50,083,312**

SEC. 4301. OPERATION AND MAINTENANCE
(In Thousands of Dollars)

Line	Item	FY 2020 Request	House Authorized
	OPERATION & MAINTENANCE, MARINE CORPS		
	OPERATING FORCES		
010	OPERATIONAL FORCES	968,224	927,224
	Excess civilian growth		[–1,000]
	Unjustified growth		[–40,000]
020	FIELD LOGISTICS	1,278,533	1,269,533
	Excess civilian growth		[–2,000]
	Unjustified growth		[–7,000]
030	DEPOT MAINTENANCE	232,991	232,991
040	MARITIME PREPOSITIONING	100,396	100,396
050	CYBERSPACE ACTIVITIES	203,580	201,580
	Excess civilian growth		[–2,000]
060	SUSTAINMENT, RESTORATION & MODERNIZATION	1,559,034	1,559,034
070	BASE OPERATING SUPPORT	2,253,776	2,213,776
	Excess civilian growth		[–6,000]
	Unjustified growth		[–34,000]
	SUBTOTAL OPERATING FORCES	**6,596,534**	**6,504,534**
	TRAINING AND RECRUITING		
080	RECRUIT TRAINING	21,240	21,240
090	OFFICER ACQUISITION	1,168	1,168
100	SPECIALIZED SKILL TRAINING	106,601	106,601
110	PROFESSIONAL DEVELOPMENT EDUCATION	49,095	49,095
120	TRAINING SUPPORT	407,315	403,715
	Excess civilian growth		[–1,300]
	Unjustified growth		[–2,300]
130	RECRUITING AND ADVERTISING	210,475	210,475
140	OFF-DUTY AND VOLUNTARY EDUCATION	42,810	42,810
150	JUNIOR ROTC	25,183	25,183
	SUBTOTAL TRAINING AND RECRUITING	**863,887**	**860,287**
	ADMIN & SRVWD ACTIVITIES		
160	SERVICEWIDE TRANSPORTATION	29,894	29,894
170	ADMINISTRATION	384,352	383,002
	Excess civilian growth		[–750]
	Unjustified growth		[–600]
225	CLASSIFIED PROGRAMS	52,057	52,057
	SUBTOTAL ADMIN & SRVWD ACTIVITIES	**466,303**	**464,953**
	TOTAL OPERATION & MAINTENANCE, MARINE CORPS	**7,926,724**	**7,829,774**
	OPERATION & MAINTENANCE, NAVY RES		
	OPERATING FORCES		
010	MISSION AND OTHER FLIGHT OPERATIONS	654,220	639,220
	Unjustified growth		[–15,000]
020	INTERMEDIATE MAINTENANCE	8,767	8,767
030	AIRCRAFT DEPOT MAINTENANCE	108,236	108,236
040	AIRCRAFT DEPOT OPERATIONS SUPPORT	463	463
050	AVIATION LOGISTICS	26,014	26,014
060	SHIP OPERATIONS SUPPORT & TRAINING	583	583
070	COMBAT COMMUNICATIONS	17,883	17,883
080	COMBAT SUPPORT FORCES	128,079	128,079
090	CYBERSPACE ACTIVITIES	356	356
100	ENTERPRISE INFORMATION	26,133	26,133
110	SUSTAINMENT, RESTORATION AND MODERNIZATION	35,397	35,397
120	BASE OPERATING SUPPORT	101,376	101,376
	SUBTOTAL OPERATING FORCES	**1,107,507**	**1,092,507**
	ADMIN & SRVWD ACTIVITIES		
130	ADMINISTRATION	1,888	1,888
140	MILITARY MANPOWER AND PERSONNEL MANAGEMENT	12,778	12,778
150	ACQUISITION AND PROGRAM MANAGEMENT	2,943	2,943
	SUBTOTAL ADMIN & SRVWD ACTIVITIES	**17,609**	**17,609**
	TOTAL OPERATION & MAINTENANCE, NAVY RES	**1,125,116**	**1,110,116**
	OPERATION & MAINTENANCE, MC RESERVE		
	OPERATING FORCES		

SEC. 4301. OPERATION AND MAINTENANCE
(In Thousands of Dollars)

Line	Item	FY 2020 Request	House Authorized
010	OPERATING FORCES	106,484	106,484
020	DEPOT MAINTENANCE	18,429	18,429
030	SUSTAINMENT, RESTORATION AND MODERNIZATION	47,516	47,516
040	BASE OPERATING SUPPORT	106,073	106,073
	SUBTOTAL OPERATING FORCES	**278,502**	**278,502**
	ADMIN & SRVWD ACTIVITIES		
050	ADMINISTRATION	13,574	13,574
	SUBTOTAL ADMIN & SRVWD ACTIVITIES	**13,574**	**13,574**
	TOTAL OPERATION & MAINTENANCE, MC RESERVE	**292,076**	**292,076**
	OPERATION & MAINTENANCE, AIR FORCE		
	OPERATING FORCES		
010	PRIMARY COMBAT FORCES	729,127	727,477
	Excess travel costs		[–1,650]
020	COMBAT ENHANCEMENT FORCES	1,318,770	1,318,770
030	AIR OPERATIONS TRAINING (OJT, MAINTAIN SKILLS)	1,486,790	1,446,790
	Unjustified growth		[–40,000]
040	DEPOT PURCHASE EQUIPMENT MAINTENANCE	3,334,792	3,534,792
	Readiness restoration		[200,000]
050	FACILITIES SUSTAINMENT, RESTORATION & MODERNIZATION	4,142,435	4,142,435
060	CYBERSPACE SUSTAINMENT	228,811	228,811
070	CONTRACTOR LOGISTICS SUPPORT AND SYSTEM SUPPORT	8,329,364	8,438,364
	Expansion of Conditions Based Maintenance Plus (CBM+)		[18,000]
	Readiness restoration		[91,000]
080	FLYING HOUR PROGRAM	4,048,773	3,498,773
	Realignment to OCO		[–550,000]
090	BASE SUPPORT	7,223,982	7,073,982
	Insufficient justification		[–150,000]
100	GLOBAL C3I AND EARLY WARNING	964,553	964,553
110	OTHER COMBAT OPS SPT PROGRAMS	1,032,307	1,026,161
	Unjustified growth		[–6,146]
120	CYBERSPACE ACTIVITIES	670,076	670,076
140	LAUNCH FACILITIES	179,980	179,980
150	SPACE CONTROL SYSTEMS	467,990	464,490
	Insufficient justification		[–3,500]
160	US NORTHCOM/NORAD	184,655	184,655
170	US STRATCOM	478,357	478,357
180	US CYBERCOM	323,121	323,121
190	US CENTCOM	160,989	160,989
200	US SOCOM	6,225	6,225
210	US TRANSCOM	544	544
220	CENTCOM CYBERSPACE SUSTAINMENT	2,073	2,073
230	USSPACECOM	70,588	70,588
235	CLASSIFIED PROGRAMS	1,322,944	1,322,944
	SUBTOTAL OPERATING FORCES	**36,707,246**	**36,264,950**
	MOBILIZATION		
240	AIRLIFT OPERATIONS	1,158,142	1,151,342
	Unjustified growth		[–6,800]
250	MOBILIZATION PREPAREDNESS	138,672	130,172
	Unjustified growth		[–8,500]
	SUBTOTAL MOBILIZATION	**1,296,814**	**1,281,514**
	TRAINING AND RECRUITING		
260	OFFICER ACQUISITION	130,835	130,835
270	RECRUIT TRAINING	26,021	26,021
280	RESERVE OFFICERS TRAINING CORPS (ROTC)	121,391	121,391
290	SPECIALIZED SKILL TRAINING	454,539	449,539
	Insufficient justification		[–5,000]
300	FLIGHT TRAINING	600,565	600,565
310	PROFESSIONAL DEVELOPMENT EDUCATION	282,788	282,788
320	TRAINING SUPPORT	123,988	119,988
	Unjustified growth		[–4,000]
330	RECRUITING AND ADVERTISING	167,731	167,731
340	EXAMINING	4,576	4,576

SEC. 4301. OPERATION AND MAINTENANCE
(In Thousands of Dollars)

Line	Item	FY 2020 Request	House Authorized
350	OFF-DUTY AND VOLUNTARY EDUCATION	211,911	211,911
360	CIVILIAN EDUCATION AND TRAINING	219,021	219,021
370	JUNIOR ROTC	62,092	62,092
	SUBTOTAL TRAINING AND RECRUITING	**2,405,458**	**2,396,458**
	ADMIN & SRVWD ACTIVITIES		
380	LOGISTICS OPERATIONS	664,926	664,926
390	TECHNICAL SUPPORT ACTIVITIES	101,483	101,483
400	ADMINISTRATION	892,480	892,480
410	SERVICEWIDE COMMUNICATIONS	152,532	152,532
420	OTHER SERVICEWIDE ACTIVITIES	1,254,089	1,254,089
430	CIVIL AIR PATROL	30,070	37,200
	Improved emergency crew readiness		[7,130]
460	INTERNATIONAL SUPPORT	136,110	136,110
465	CLASSIFIED PROGRAMS	1,269,624	1,269,624
	SUBTOTAL ADMIN & SRVWD ACTIVITIES	**4,501,314**	**4,508,444**
	TOTAL OPERATION & MAINTENANCE, AIR FORCE	**44,910,832**	**44,451,366**
	OPERATION & MAINTENANCE, SPACE FORCE		
	OPERATING FORCES		
010	BASE SUPPORT	72,436	15,000
	Insufficient justification		[–57,436]
	SUBTOTAL OPERATING FORCES	**72,436**	**15,000**
	TOTAL OPERATION & MAINTENANCE, SPACE FORCE	**72,436**	**15,000**
	OPERATION & MAINTENANCE, AF RESERVE		
	OPERATING FORCES		
010	PRIMARY COMBAT FORCES	1,781,413	1,739,288
	Delay in KC–46 aircraft delivery		[–31,492]
	Excess Growth		[–10,633]
020	MISSION SUPPORT OPERATIONS	209,650	204,150
	Insufficient justification		[–5,500]
030	DEPOT PURCHASE EQUIPMENT MAINTENANCE	494,235	484,235
	Excess growth		[–10,000]
040	FACILITIES SUSTAINMENT, RESTORATION & MODERNIZATION	128,746	128,746
050	CONTRACTOR LOGISTICS SUPPORT AND SYSTEM SUPPORT	256,512	256,512
060	BASE SUPPORT	414,626	414,626
070	CYBERSPACE ACTIVITIES	1,673	1,673
	SUBTOTAL OPERATING FORCES	**3,286,855**	**3,229,230**
	ADMINISTRATION AND SERVICEWIDE ACTIVITIES		
080	ADMINISTRATION	69,436	69,436
090	RECRUITING AND ADVERTISING	22,124	22,124
100	MILITARY MANPOWER AND PERS MGMT (ARPC)	10,946	10,946
110	OTHER PERS SUPPORT (DISABILITY COMP)	7,009	7,009
120	AUDIOVISUAL	448	448
	SUBTOTAL ADMINISTRATION AND SERVICEWIDE ACTIVITIES	**109,963**	**109,963**
	TOTAL OPERATION & MAINTENANCE, AF RESERVE	**3,396,818**	**3,339,193**
	OPERATION & MAINTENANCE, ANG		
	OPERATING FORCES		
010	AIRCRAFT OPERATIONS	2,497,967	2,414,000
	Delay in KC–46 aircraft delivery		[–5,267]
	Insufficient justification		[–78,700]
020	MISSION SUPPORT OPERATIONS	600,377	585,377
	Insufficient justification		[–15,000]
030	DEPOT PURCHASE EQUIPMENT MAINTENANCE	879,467	872,467
	Excess growth		[–7,000]
040	FACILITIES SUSTAINMENT, RESTORATION & MODERNIZATION	400,734	395,134

SEC. 4301. OPERATION AND MAINTENANCE
(In Thousands of Dollars)

Line	Item	FY 2020 Request	House Authorized
	Insufficient justification		[–5,600]
050	CONTRACTOR LOGISTICS SUPPORT AND SYSTEM SUPPORT	1,299,089	1,290,089
	Excess growth		[–9,000]
060	BASE SUPPORT	911,775	901,775
	Insufficient justification		[–10,000]
070	CYBERSPACE SUSTAINMENT	24,742	24,742
080	CYBERSPACE ACTIVITIES	25,507	25,507
	SUBTOTAL OPERATING FORCES	**6,639,658**	**6,509,091**
	ADMINISTRATION AND SERVICE-WIDE ACTIVITIES		
090	ADMINISTRATION	47,215	47,215
100	RECRUITING AND ADVERTISING	40,356	40,356
	SUBTOTAL ADMINISTRATION AND SERVICE-WIDE ACTIVITIES	**87,571**	**87,571**
	TOTAL OPERATION & MAINTENANCE, ANG	**6,727,229**	**6,596,662**
	OPERATION AND MAINTENANCE, DEFENSE-WIDE		
	OPERATING FORCES		
010	JOINT CHIEFS OF STAFF	409,542	409,542
020	JOINT CHIEFS OF STAFF—CE2T2	579,179	579,179
030	JOINT CHIEFS OF STAFF—CYBER	24,598	24,598
040	SPECIAL OPERATIONS COMMAND COMBAT DEVELOPMENT ACTIVITIES	1,075,762	1,075,762
050	SPECIAL OPERATIONS COMMAND CYBERSPACE ACTIVITIES	14,409	14,409
060	SPECIAL OPERATIONS COMMAND INTELLIGENCE	501,747	486,747
	Program decrease—SOCRATES		[–9,000]
	Unjustified growth—DCGS		[–6,000]
070	SPECIAL OPERATIONS COMMAND MAINTENANCE	559,300	544,300
	Projected underexecution		[–15,000]
080	SPECIAL OPERATIONS COMMAND MANAGEMENT/OPERATIONAL HEADQUARTERS	177,928	177,928
090	SPECIAL OPERATIONS COMMAND OPERATIONAL SUPPORT	925,262	899,262
	Base support underexecution		[–6,000]
	Operational support underexecution		[–10,000]
	Unjustified growth—C4IAS Saas		[–10,000]
100	SPECIAL OPERATIONS COMMAND THEATER FORCES	2,764,738	2,724,738
	Program decrease		[–55,000]
	Program increase—suicide prevention		[15,000]
	SUBTOTAL OPERATING FORCES	**7,032,465**	**6,936,465**
	TRAINING AND RECRUITING		
120	DEFENSE ACQUISITION UNIVERSITY	180,250	180,250
130	JOINT CHIEFS OF STAFF	100,610	100,610
140	PROFESSIONAL DEVELOPMENT EDUCATION	33,967	33,967
	SUBTOTAL TRAINING AND RECRUITING	**314,827**	**314,827**
	ADMIN & SRVWIDE ACTIVITIES		
160	CIVIL MILITARY PROGRAMS	165,707	195,707
	Program increase—STARBASE		[30,000]
180	DEFENSE CONTRACT AUDIT AGENCY	627,467	627,467
190	DEFENSE CONTRACT AUDIT AGENCY—CYBER	3,362	3,362
200	DEFENSE CONTRACT MANAGEMENT AGENCY	1,438,068	1,438,068
210	DEFENSE CONTRACT MANAGEMENT AGENCY—CYBER	24,391	24,391
220	DEFENSE HUMAN RESOURCES ACTIVITY	892,438	898,438
	Program increase—national flagship language initiative		[6,000]
230	DEFENSE INFORMATION SYSTEMS AGENCY	2,012,885	2,028,022
	Realignment for Sharkseer		[35,137]
	Unjustified growth		[–20,000]
240	DEFENSE INFORMATION SYSTEMS AGENCY—CYBER	601,223	601,223
270	DEFENSE LEGAL SERVICES AGENCY	34,632	34,632
280	DEFENSE LOGISTICS AGENCY	415,699	430,199
	Excess growth		[–5,000]
	Program increase—PTAP		[19,500]
290	DEFENSE MEDIA ACTIVITY	202,792	196,792

SEC. 4301. OPERATION AND MAINTENANCE
(In Thousands of Dollars)

Line	Item	FY 2020 Request	House Authorized
	Program decrease		[–6,000]
300	DEFENSE PERSONNEL ACCOUNTING AGENCY	144,881	144,881
310	DEFENSE SECURITY COOPERATION AGENCY	696,884	681,884
	Increase for AM&E		[11,000]
	Increase for AM&E		[–11,000]
	Unjustified growth		[–15,000]
320	DEFENSE SECURITY SERVICE	889,664	889,664
340	DEFENSE SECURITY SERVICE—CYBER	9,220	9,220
360	DEFENSE TECHNICAL INFORMATION CENTER	3,000	3,000
370	DEFENSE TECHNOLOGY SECURITY ADMINISTRATION	35,626	35,626
380	DEFENSE THREAT REDUCTION AGENCY	568,133	568,133
400	DEFENSE THREAT REDUCTION AGENCY—CYBER	13,339	13,339
410	DEPARTMENT OF DEFENSE EDUCATION ACTIVITY	2,932,226	2,982,226
	Program increase—impact aid for children with severe disabilites		[10,000]
	Program increase—impact aid to schools with military dependents		[40,000]
420	MISSILE DEFENSE AGENCY	522,529	522,529
450	OFFICE OF ECONOMIC ADJUSTMENT	59,513	114,913
	Civilian growth		[400]
	Defense Community Infrastructure Program (DCIP)		[50,000]
	Program increase—military aviation noise pilot program		[5,000]
460	OFFICE OF THE SECRETARY OF DEFENSE	1,604,738	1,529,476
	Basic Needs Allowance for low-income regular members		[15,000]
	Excess growth		[–58,839]
	Increase to OUSD(A&S)—JASONs		[7,000]
	Military aviation safety commission		[3,000]
	Program decrease		[–53,000]
	Readiness and Environmental Protection Initiative increase		[25,000]
	Reduction to OUSD(R&E)—JASONs		[–7,000]
	Unjustified growth		[–6,423]
470	OFFICE OF THE SECRETARY OF DEFENSE—CYBER	48,783	48,783
480	SPACE DEVELOPMENT AGENCY	44,750	44,750
500	WASHINGTON HEADQUARTERS SERVICES	324,001	296,201
	Insufficient justification		[–27,800]
505	CLASSIFIED PROGRAMS	15,816,598	15,755,461
	Classified adjustment		[–26,000]
	Realignment to DISA for Sharkseer		[–35,137]
	SUBTOTAL ADMIN & SRVWIDE ACTIVITIES	**30,132,549**	**30,118,387**
	TOTAL OPERATION AND MAINTENANCE, DEFENSE-WIDE	**37,479,841**	**37,369,379**
	US COURT OF APPEALS FOR ARMED FORCES, DEF		
	ADMINISTRATION AND ASSOCIATED ACTIVITIES		
010	US COURT OF APPEALS FOR THE ARMED FORCES, DEFENSE	14,771	14,771
	SUBTOTAL ADMINISTRATION AND ASSOCIATED ACTIVITIES	**14,771**	**14,771**
	TOTAL US COURT OF APPEALS FOR ARMED FORCES, DEF	**14,771**	**14,771**
	DOD ACQUISITION WORKFORCE DEVELOPMENT FUND		
	ACQUISITION WORKFORCE DEVELOPMENT		
010	ACQ WORKFORCE DEV FD	400,000	375,000
	Program decrease		[–25,000]
	SUBTOTAL ACQUISITION WORKFORCE DEVELOPMENT	**400,000**	**375,000**
	TOTAL DOD ACQUISITION WORKFORCE DEVELOPMENT FUND	**400,000**	**375,000**
	OVERSEAS HUMANITARIAN, DISASTER, AND CIVIC AID		
	HUMANITARIAN ASSISTANCE		
010	OVERSEAS HUMANITARIAN, DISASTER AND CIVIC AID	108,600	110,800

SEC. 4301. OPERATION AND MAINTENANCE
(In Thousands of Dollars)

Line	Item	FY 2020 Request	House Authorized
	Increase for HMA		[2,200]
	SUBTOTAL HUMANITARIAN ASSISTANCE	**108,600**	**110,800**
	TOTAL OVERSEAS HUMANITARIAN, DISASTER, AND CIVIC AID	**108,600**	**110,800**
	COOPERATIVE THREAT REDUCTION ACCOUNT		
	COOPERATIVE THREAT REDUCTION		
010	COOPERATIVE THREAT REDUCTION	338,700	338,700
	SUBTOTAL COOPERATIVE THREAT REDUCTION	**338,700**	**338,700**
	TOTAL COOPERATIVE THREAT REDUCTION ACCOUNT	**338,700**	**338,700**
	ENVIRONMENTAL RESTORATION, ARMY		
	DEPARTMENT OF THE ARMY		
050	ENVIRONMENTAL RESTORATION, ARMY	207,518	235,809
	Perfluorinated chemicals		[28,291]
	SUBTOTAL DEPARTMENT OF THE ARMY	**207,518**	**235,809**
	TOTAL ENVIRONMENTAL RESTORATION, ARMY	**207,518**	**235,809**
	ENVIRONMENTAL RESTORATION, NAVY		
	DEPARTMENT OF THE NAVY		
060	ENVIRONMENTAL RESTORATION, NAVY	335,932	365,883
	Perfluorinated chemicals		[29,951]
	SUBTOTAL DEPARTMENT OF THE NAVY	**335,932**	**365,883**
	TOTAL ENVIRONMENTAL RESTORATION, NAVY	**335,932**	**365,883**
	ENVIRONMENTAL RESTORATION, AIR FORCE		
	DEPARTMENT OF THE AIR FORCE		
070	ENVIRONMENTAL RESTORATION, AIR FORCE	302,744	365,808
	Perfluorinated chemicals		[63,064]
	SUBTOTAL DEPARTMENT OF THE AIR FORCE	**302,744**	**365,808**
	TOTAL ENVIRONMENTAL RESTORATION, AIR FORCE	**302,744**	**365,808**
	ENVIRONMENTAL RESTORATION, DEFENSE-WIDE		
080	ENVIRONMENTAL RESTORATION, DEFENSE-WIDE	9,105	19,002
	Perfluorinated chemicals		[9,897]
	SUBTOTAL DEFENSE-WIDE	**9,105**	**19,002**
	TOTAL ENVIRONMENTAL RESTORATION, DEFENSE-WIDE	**9,105**	**19,002**
	ENVIRONMENTAL RESTORATION FORMERLY USED SITES		
	DEFENSE-WIDE		
090	ENVIRONMENTAL RESTORATION FORMERLY USED SITES	216,499	216,499
	SUBTOTAL DEFENSE-WIDE	**216,499**	**216,499**
	TOTAL ENVIRONMENTAL RESTORATION FORMERLY USED SITES	**216,499**	**216,499**
	TOTAL OPERATION & MAINTENANCE	**207,661,689**	**203,791,546**

1 **SEC. 4302. OPERATION AND MAINTENANCE FOR OVERSEAS**

2 **CONTINGENCY OPERATIONS.**

SEC. 4302. OPERATION AND MAINTENANCE FOR OVERSEAS CONTINGENCY OPERATIONS
(In Thousands of Dollars)

Line	Item	FY 2020 Request	House Authorized
	OPERATION & MAINTENANCE, ARMY		
	OPERATING FORCES		
010	MANEUVER UNITS	1,410,874	1,410,874
030	ECHELONS ABOVE BRIGADE	26,502	26,502
040	THEATER LEVEL ASSETS	2,274,490	2,274,490
050	LAND FORCES OPERATIONS SUPPORT	136,288	136,288
060	AVIATION ASSETS	300,240	300,240
070	FORCE READINESS OPERATIONS SUPPORT	3,415,009	4,515,009
	Realignment from base		[1,100,000]
080	LAND FORCES SYSTEMS READINESS	29,985	29,985
090	LAND FORCES DEPOT MAINTENANCE	86,931	86,931
100	BASE OPERATIONS SUPPORT	115,706	115,706
110	FACILITIES SUSTAINMENT, RESTORATION & MODERNIZATION	72,657	72,657
130	ADDITIONAL ACTIVITIES	6,397,586	6,397,586
140	COMMANDER'S EMERGENCY RESPONSE PROGRAM	5,000	0
	Realignment of redress and loss funding		[–5,000]
150	RESET	1,048,896	1,048,896
160	US AFRICA COMMAND	203,174	203,174
170	US EUROPEAN COMMAND	173,676	173,676
200	CYBERSPACE ACTIVITIES—CYBERSPACE OPERATIONS	188,529	188,529
210	CYBERSPACE ACTIVITIES—CYBERSECURITY	5,682	5,682
	SUBTOTAL OPERATING FORCES	**15,891,225**	**16,986,225**
	MOBILIZATION		
230	ARMY PREPOSITIONED STOCKS	131,954	131,954
	SUBTOTAL MOBILIZATION	**131,954**	**131,954**
	ADMIN & SRVWIDE ACTIVITIES		
390	SERVICEWIDE TRANSPORTATION	721,014	721,014
400	CENTRAL SUPPLY ACTIVITIES	66,845	66,845
410	LOGISTIC SUPPORT ACTIVITIES	9,309	9,309
420	AMMUNITION MANAGEMENT	23,653	23,653
460	OTHER PERSONNEL SUPPORT	109,019	109,019
490	REAL ESTATE MANAGEMENT	251,355	251,355
565	CLASSIFIED PROGRAMS	1,568,564	1,568,564
	SUBTOTAL ADMIN & SRVWIDE ACTIVITIES	**2,749,759**	**2,749,759**
	TOTAL OPERATION & MAINTENANCE, ARMY	**18,772,938**	**19,867,938**
	OPERATION & MAINTENANCE, ARMY RES		
	OPERATING FORCES		
020	ECHELONS ABOVE BRIGADE	20,440	20,440
060	FORCE READINESS OPERATIONS SUPPORT	689	689
090	BASE OPERATIONS SUPPORT	16,463	16,463
	SUBTOTAL OPERATING FORCES	**37,592**	**37,592**
	TOTAL OPERATION & MAINTENANCE, ARMY RES	**37,592**	**37,592**
	OPERATION & MAINTENANCE, ARNG		
	OPERATING FORCES		
010	MANEUVER UNITS	45,896	45,896
020	MODULAR SUPPORT BRIGADES	180	180
030	ECHELONS ABOVE BRIGADE	2,982	2,982
040	THEATER LEVEL ASSETS	548	548
060	AVIATION ASSETS	9,229	9,229
070	FORCE READINESS OPERATIONS SUPPORT	1,584	1,584
100	BASE OPERATIONS SUPPORT	22,063	22,063
120	MANAGEMENT AND OPERATIONAL HEADQUARTERS	606	606
	SUBTOTAL OPERATING FORCES	**83,088**	**83,088**
	ADMIN & SRVWD ACTIVITIES		
170	SERVICEWIDE COMMUNICATIONS	203	203
	SUBTOTAL ADMIN & SRVWD ACTIVITIES	**203**	**203**

SEC. 4302. OPERATION AND MAINTENANCE FOR OVERSEAS CONTINGENCY OPERATIONS
(In Thousands of Dollars)

Line	Item	FY 2020 Request	House Authorized
	TOTAL OPERATION & MAINTENANCE, ARNG	**83,291**	**83,291**
	AFGHAN NATIONAL ARMY		
090	SUSTAINMENT	1,313,047	1,313,047
100	INFRASTRUCTURE	37,152	37,152
110	EQUIPMENT AND TRANSPORTATION	120,868	120,868
120	TRAINING AND OPERATIONS	118,591	118,591
	SUBTOTAL AFGHAN NATIONAL ARMY	**1,589,658**	**1,589,658**
	AFGHAN NATIONAL POLICE		
130	SUSTAINMENT	422,806	422,806
140	INFRASTRUCTURE	2,358	2,358
150	EQUIPMENT AND TRANSPORTATION	127,081	127,081
160	TRAINING AND OPERATIONS	108,112	108,112
	SUBTOTAL AFGHAN NATIONAL POLICE	**660,357**	**660,357**
	AFGHAN AIR FORCE		
170	SUSTAINMENT	893,829	893,829
180	INFRASTRUCTURE	8,611	8,611
190	EQUIPMENT AND TRANSPORTATION	566,967	566,967
200	TRAINING AND OPERATIONS	356,108	356,108
	SUBTOTAL AFGHAN AIR FORCE	**1,825,515**	**1,825,515**
	AFGHAN SPECIAL SECURITY FORCES		
210	SUSTAINMENT	437,909	437,909
220	INFRASTRUCTURE	21,131	21,131
230	EQUIPMENT AND TRANSPORTATION	153,806	153,806
240	TRAINING AND OPERATIONS	115,602	115,602
	SUBTOTAL AFGHAN SPECIAL SECURITY FORCES	**728,448**	**728,448**
	UNDISTRIBUTED		
245	UNDISTRIBUTED		–300,000
	Unjustified request		[–300,000]
	SUBTOTAL UNDISTRIBUTED		**–300,000**
	TOTAL AFGHANISTAN SECURITY FORCES FUND	**4,803,978**	**4,503,978**
	COUNTER ISIS TRAIN AND EQUIP FUND (CTEF)		
	COUNTER ISIS TRAIN AND EQUIP FUND (CTEF)		
010	IRAQ	745,000	663,000
	Unjustified request		[–82,000]
020	SYRIA	300,000	300,000
030	BORDER SECURITY		250,000
	Realignment of CTEF border security funding		[250,000]
	SUBTOTAL COUNTER ISIS TRAIN AND EQUIP FUND (CTEF)	**1,045,000**	**1,213,000**
	TOTAL COUNTER ISIS TRAIN AND EQUIP FUND (CTEF)	**1,045,000**	**1,213,000**
	OPERATION & MAINTENANCE, NAVY		
	OPERATING FORCES		
010	MISSION AND OTHER FLIGHT OPERATIONS	373,047	587,422
	Realignment from base		[214,375]
030	AVIATION TECHNICAL DATA & ENGINEERING SERVICES	816	816
040	AIR OPERATIONS AND SAFETY SUPPORT	9,582	9,582
050	AIR SYSTEMS SUPPORT	197,262	197,262
060	AIRCRAFT DEPOT MAINTENANCE	168,246	168,246
070	AIRCRAFT DEPOT OPERATIONS SUPPORT	3,594	3,594
080	AVIATION LOGISTICS	10,618	10,618
090	MISSION AND OTHER SHIP OPERATIONS	1,485,108	1,935,108
	Realignment from base		[450,000]
100	SHIP OPERATIONS SUPPORT & TRAINING	20,334	20,334
110	SHIP DEPOT MAINTENANCE	2,365,615	2,365,615
130	COMBAT COMMUNICATIONS AND ELECTRONIC WARFARE	58,092	58,092
140	SPACE SYSTEMS AND SURVEILLANCE	18,000	18,000
150	WARFARE TACTICS	16,984	16,984
160	OPERATIONAL METEOROLOGY AND OCEANOGRAPHY	29,382	29,382
170	COMBAT SUPPORT FORCES	608,870	608,870

SEC. 4302. OPERATION AND MAINTENANCE FOR OVERSEAS CONTINGENCY OPERATIONS
(In Thousands of Dollars)

Line	Item	FY 2020 Request	House Authorized
180	EQUIPMENT MAINTENANCE AND DEPOT OPERATIONS SUPPORT	7,799	7,799
200	COMBATANT COMMANDERS DIRECT MISSION SUPPORT	24,800	24,800
220	CYBERSPACE ACTIVITIES	363	363
240	WEAPONS MAINTENANCE	486,188	486,188
250	OTHER WEAPON SYSTEMS SUPPORT	12,189	12,189
270	SUSTAINMENT, RESTORATION AND MODERNIZATION	68,667	68,667
280	BASE OPERATING SUPPORT	219,099	219,099
	SUBTOTAL OPERATING FORCES	**6,184,655**	**6,849,030**
	MOBILIZATION		
320	EXPEDITIONARY HEALTH SERVICES SYSTEMS	17,580	17,580
330	COAST GUARD SUPPORT	190,000	190,000
	SUBTOTAL MOBILIZATION	**207,580**	**207,580**
	TRAINING AND RECRUITING		
370	SPECIALIZED SKILL TRAINING	52,161	52,161
	SUBTOTAL TRAINING AND RECRUITING	**52,161**	**52,161**
	ADMIN & SRVWD ACTIVITIES		
440	ADMINISTRATION	8,475	8,475
460	MILITARY MANPOWER AND PERSONNEL MANAGEMENT	7,653	7,653
490	SERVICEWIDE TRANSPORTATION	70,683	70,683
520	ACQUISITION, LOGISTICS, AND OVERSIGHT	11,130	11,130
530	INVESTIGATIVE AND SECURITY SERVICES	1,559	1,559
645	CLASSIFIED PROGRAMS	17,754	17,754
	SUBTOTAL ADMIN & SRVWD ACTIVITIES	**117,254**	**117,254**
	TOTAL OPERATION & MAINTENANCE, NAVY	**6,561,650**	**7,226,025**
	OPERATION & MAINTENANCE, MARINE CORPS		
	OPERATING FORCES		
010	OPERATIONAL FORCES	714,653	714,653
020	FIELD LOGISTICS	232,508	232,508
030	DEPOT MAINTENANCE	54,101	54,101
050	CYBERSPACE ACTIVITIES	2,000	2,000
070	BASE OPERATING SUPPORT	24,570	24,570
	SUBTOTAL OPERATING FORCES	**1,027,832**	**1,027,832**
	TRAINING AND RECRUITING		
120	TRAINING SUPPORT	30,459	30,459
	SUBTOTAL TRAINING AND RECRUITING	**30,459**	**30,459**
	ADMIN & SRVWD ACTIVITIES		
160	SERVICEWIDE TRANSPORTATION	61,400	61,400
225	CLASSIFIED PROGRAMS	5,100	5,100
	SUBTOTAL ADMIN & SRVWD ACTIVITIES	**66,500**	**66,500**
	TOTAL OPERATION & MAINTENANCE, MARINE CORPS	**1,124,791**	**1,124,791**
	OPERATION & MAINTENANCE, NAVY RES		
	OPERATING FORCES		
020	INTERMEDIATE MAINTENANCE	510	510
030	AIRCRAFT DEPOT MAINTENANCE	11,628	11,628
080	COMBAT SUPPORT FORCES	10,898	10,898
	SUBTOTAL OPERATING FORCES	**23,036**	**23,036**
	TOTAL OPERATION & MAINTENANCE, NAVY RES	**23,036**	**23,036**
	OPERATION & MAINTENANCE, MC RESERVE		
	OPERATING FORCES		
010	OPERATING FORCES	7,627	7,627
040	BASE OPERATING SUPPORT	1,080	1,080
	SUBTOTAL OPERATING FORCES	**8,707**	**8,707**
	TOTAL OPERATION & MAINTENANCE, MC RESERVE	**8,707**	**8,707**
	OPERATION & MAINTENANCE, AIR FORCE		
	OPERATING FORCES		

SEC. 4302. OPERATION AND MAINTENANCE FOR OVERSEAS CONTINGENCY OPERATIONS
(In Thousands of Dollars)

Line	Item	FY 2020 Request	House Authorized
010	PRIMARY COMBAT FORCES	163,632	163,632
020	COMBAT ENHANCEMENT FORCES	1,049,170	1,049,170
030	AIR OPERATIONS TRAINING (OJT, MAINTAIN SKILLS)	111,808	111,808
040	DEPOT PURCHASE EQUIPMENT MAINTENANCE	408,699	408,699
050	FACILITIES SUSTAINMENT, RESTORATION & MODERNIZATION	147,264	147,264
060	CYBERSPACE SUSTAINMENT	10,061	10,061
070	CONTRACTOR LOGISTICS SUPPORT AND SYSTEM SUPPORT	953,594	953,594
080	FLYING HOUR PROGRAM	2,495,266	3,045,266
	Realignment from base		[550,000]
090	BASE SUPPORT	1,538,120	1,538,120
100	GLOBAL C3I AND EARLY WARNING	13,863	13,863
110	OTHER COMBAT OPS SPT PROGRAMS	272,020	272,020
120	CYBERSPACE ACTIVITIES	17,657	17,657
130	TACTICAL INTEL AND OTHER SPECIAL ACTIVITIES	36,098	36,098
140	LAUNCH FACILITIES	391	391
150	SPACE CONTROL SYSTEMS	39,990	39,990
160	US NORTHCOM/NORAD	725	725
170	US STRATCOM	926	926
180	US CYBERCOM	35,189	35,189
190	US CENTCOM	163,015	163,015
200	US SOCOM	19,000	19,000
	SUBTOTAL OPERATING FORCES	**7,476,488**	**8,026,488**
	MOBILIZATION		
240	AIRLIFT OPERATIONS	1,271,439	1,271,439
250	MOBILIZATION PREPAREDNESS	109,682	109,682
	SUBTOTAL MOBILIZATION	**1,381,121**	**1,381,121**
	TRAINING AND RECRUITING		
260	OFFICER ACQUISITION	200	200
270	RECRUIT TRAINING	352	352
290	SPECIALIZED SKILL TRAINING	26,802	26,802
300	FLIGHT TRAINING	844	844
310	PROFESSIONAL DEVELOPMENT EDUCATION	1,199	1,199
320	TRAINING SUPPORT	1,320	1,320
	SUBTOTAL TRAINING AND RECRUITING	**30,717**	**30,717**
	ADMIN & SRVWD ACTIVITIES		
380	LOGISTICS OPERATIONS	164,701	164,701
390	TECHNICAL SUPPORT ACTIVITIES	11,608	11,608
400	ADMINISTRATION	4,814	4,814
410	SERVICEWIDE COMMUNICATIONS	145,204	145,204
420	OTHER SERVICEWIDE ACTIVITIES	98,841	98,841
460	INTERNATIONAL SUPPORT	29,890	29,890
465	CLASSIFIED PROGRAMS	52,995	52,995
	SUBTOTAL ADMIN & SRVWD ACTIVITIES	**508,053**	**508,053**
	TOTAL OPERATION & MAINTENANCE, AIR FORCE	**9,396,379**	**9,946,379**
	OPERATION & MAINTENANCE, AF RESERVE		
	OPERATING FORCES		
030	DEPOT PURCHASE EQUIPMENT MAINTENANCE	24,188	24,188
060	BASE SUPPORT	5,570	5,570
	SUBTOTAL OPERATING FORCES	**29,758**	**29,758**
	TOTAL OPERATION & MAINTENANCE, AF RESERVE	**29,758**	**29,758**
	OPERATION & MAINTENANCE, ANG		
	OPERATING FORCES		
020	MISSION SUPPORT OPERATIONS	3,666	3,666
030	DEPOT PURCHASE EQUIPMENT MAINTENANCE	66,944	66,944
050	CONTRACTOR LOGISTICS SUPPORT AND SYSTEM SUPPORT	93,620	93,620
060	BASE SUPPORT	12,679	12,679
	SUBTOTAL OPERATING FORCES	**176,909**	**176,909**
	TOTAL OPERATION & MAINTENANCE, ANG	**176,909**	**176,909**
	OPERATION AND MAINTENANCE, DEFENSE-WIDE		
	OPERATING FORCES		

SEC. 4302. OPERATION AND MAINTENANCE FOR OVERSEAS CONTINGENCY OPERATIONS
(In Thousands of Dollars)

Line	Item	FY 2020 Request	House Authorized
010	JOINT CHIEFS OF STAFF	21,866	21,866
020	JOINT CHIEFS OF STAFF—CE2T2	6,634	6,634
040	SPECIAL OPERATIONS COMMAND COMBAT DEVELOPMENT ACTIVITIES	1,121,580	1,121,580
060	SPECIAL OPERATIONS COMMAND INTELLIGENCE	1,328,201	1,328,201
070	SPECIAL OPERATIONS COMMAND MAINTENANCE	399,845	399,845
090	SPECIAL OPERATIONS COMMAND OPERATIONAL SUPPORT	138,458	102,958
	Project underexecution—communications		[–35,500]
100	SPECIAL OPERATIONS COMMAND THEATER FORCES	808,729	808,729
	SUBTOTAL OPERATING FORCES	**3,825,313**	**3,789,813**
	ADMIN & SRVWIDE ACTIVITIES		
180	DEFENSE CONTRACT AUDIT AGENCY	1,810	1,810
200	DEFENSE CONTRACT MANAGEMENT AGENCY	21,723	21,723
230	DEFENSE INFORMATION SYSTEMS AGENCY	81,133	81,133
240	DEFENSE INFORMATION SYSTEMS AGENCY—CYBER	3,455	3,455
270	DEFENSE LEGAL SERVICES AGENCY	196,124	196,124
290	DEFENSE MEDIA ACTIVITY	14,377	14,377
310	DEFENSE SECURITY COOPERATION AGENCY	1,927,217	1,364,427
	Realignment of CTEF border security funding		[–250,000]
	Transfer of funds to Ukraine Security Assistance		[–250,000]
	Unjustified growth		[–62,790]
380	DEFENSE THREAT REDUCTION AGENCY	317,558	307,558
	Program decrease		[–10,000]
410	DEPARTMENT OF DEFENSE EDUCATION ACTIVITY	31,620	31,620
460	OFFICE OF THE SECRETARY OF DEFENSE	16,666	21,666
	Realignment of redress and loss funding		[5,000]
500	WASHINGTON HEADQUARTERS SERVICES	6,331	6,331
505	CLASSIFIED PROGRAMS	1,924,785	1,924,785
	SUBTOTAL ADMIN & SRVWIDE ACTIVITIES	**4,542,799**	**3,975,009**
	TOTAL OPERATION AND MAINTENANCE, DEFENSE-WIDE	**8,368,112**	**7,764,822**
	UKRAINE SECURITY ASSISTANCE		
	UKRAINE SECURITY ASSISTANCE		
010	UKRAINE SECURITY ASSISTANCE		250,000
	Transfer of funds from Defense Security Cooperation Agency		[250,000]
	SUBTOTAL UKRAINE SECURITY ASSISTANCE		**250,000**
	TOTAL UKRAINE SECURITY ASSISTANCE		**250,000**
	TOTAL OPERATION & MAINTENANCE	**50,432,141**	**52,256,226**

TITLE XLIV—MILITARY PERSONNEL

SEC. 4401. MILITARY PERSONNEL.

SEC. 4401. MILITARY PERSONNEL
(In Thousands of Dollars)

Item	FY 2020 Request	House Authorized
Military Personnel Appropriations	**143,476,503**	**142,248,503**
Historical unobligated balances		**[–1,228,000]**
Medicare-Eligible Retiree Health Fund Contributions	**7,816,815**	**7,816,815**

1 **SEC. 4402. MILITARY PERSONNEL FOR OVERSEAS CONTIN-**

2 **GENCY OPERATIONS.**

SEC. 4402. MILITARY PERSONNEL FOR OVERSEAS CONTINGENCY OPERATIONS
(In Thousands of Dollars)

Item	FY 2020 Request	House Authorized
Military Personnel Appropriations	**4,485,808**	**4,485,808**

3 # TITLE XLV—OTHER

4 # AUTHORIZATIONS

5 **SEC. 4501. OTHER AUTHORIZATIONS.**

SEC. 4501. OTHER AUTHORIZATIONS
(In Thousands of Dollars)

Item	FY 2020 Request	House Authorized
WORKING CAPITAL FUND, ARMY		
INDUSTRIAL OPERATIONS	57,467	57,467
SUPPLY MANAGEMENT—ARMY	32,130	32,130
TOTAL WORKING CAPITAL FUND, ARMY	**89,597**	**89,597**
WORKING CAPITAL FUND, AIR FORCE TRANSPORTATION		
SUPPLIES AND MATERIALS	92,499	92,499
TOTAL WORKING CAPITAL FUND, AIR FORCE	**92,499**	**92,499**
WORKING CAPITAL FUND, DEFENSE-WIDE		
SUPPLY CHAIN MANAGEMENT—DEF	49,085	49,085
TOTAL WORKING CAPITAL FUND, DEFENSE-WIDE	**49,085**	**49,085**
WORKING CAPITAL FUND, DECA		
WORKING CAPITAL FUND, DECA	995,030	995,030
TOTAL WORKING CAPITAL FUND, DECA	**995,030**	**995,030**
NATIONAL DEFENSE SEALIFT FUND		
LG MED SPD RO/RO MAINTENANCE		264,751
Realignment from Operations and Maintenance, Navy		[264,751]
DOD MOBILIZATION ALTERATIONS		9,590
Realignment from Operations and Maintenance, Navy		[9,590]
TAH MAINTENANCE		96,867
Realignment from Operations and Maintenance, Navy		[96,867]
READY RESERVE FORCE		352,044
Realignment from Operations and Maintenance, Navy		[352,044]
TOTAL NATIONAL DEFENSE SEALIFT FUND		**723,252**
WCF, DEF COUNTERINTELLIGENCE & SECURITY AGENCY		
DEFENSE COUNTERINTELLIGENCE AND SECURITY AGENCY	200,000	200,000
TOTAL WCF, DEF COUNTERINTELLIGENCE & SECURITY AGENCY	**200,000**	**200,000**
CHEM AGENTS & MUNITIONS DESTRUCTION		
OPERATION & MAINTENANCE	107,351	107,351
RDT&E	875,930	865,930
Unjustified growth		[–10,000]

SEC. 4501. OTHER AUTHORIZATIONS
(In Thousands of Dollars)

Item	FY 2020 Request	House Authorized
PROCUREMENT	2,218	2,218
TOTAL CHEM AGENTS & MUNITIONS DESTRUCTION	**985,499**	**975,499**
DRUG INTERDICTION & CTR-DRUG ACTIVITIES, DEF		
COUNTER-NARCOTICS SUPPORT	581,739	517,171
Realignment of National Guard Bureau funding		[–30,921]
Unjustified growth		[–33,647]
DRUG DEMAND REDUCTION PROGRAM	120,922	120,922
NATIONAL GUARD COUNTER-DRUG PROGRAM	91,370	122,291
Realignment of National Guard Bureau funding		[30,921]
NATIONAL GUARD COUNTER-DRUG SCHOOLS	5,371	5,371
TOTAL DRUG INTERDICTION & CTR-DRUG ACTIVITIES, DEF	**799,402**	**765,755**
OFFICE OF THE INSPECTOR GENERAL		
OFFICE OF THE INSPECTOR GENERAL	359,022	359,022
OFFICE OF THE INSPECTOR GENERAL—CYBER	1,179	1,179
OFFICE OF THE INSPECTOR GENERAL	2,965	2,965
OFFICE OF THE INSPECTOR GENERAL	333	333
TOTAL OFFICE OF THE INSPECTOR GENERAL	**363,499**	**363,499**
DEFENSE HEALTH PROGRAM		
IN-HOUSE CARE	9,570,615	9,470,615
Unjustified growth		[–100,000]
PRIVATE SECTOR CARE	15,041,006	15,041,006
CONSOLIDATED HEALTH SUPPORT	1,975,536	1,975,536
INFORMATION MANAGEMENT	2,004,588	2,004,588
MANAGEMENT ACTIVITIES	333,246	333,246
EDUCATION AND TRAINING	793,810	793,810
BASE OPERATIONS/COMMUNICATIONS	2,093,289	2,093,289
UNDISTRIBUTED		7,000
PFAS exposure blood testing for DoD firefighters		[2,000]
TRICARE lead level screening and testing for children		[5,000]
R&D RESEARCH	12,621	22,621
CDC ASTDR PFOS/PFOA health study increment		[10,000]
R&D EXPLORATRY DEVELOPMENT	84,266	84,266
R&D ADVANCED DEVELOPMENT	279,766	279,766
R&D DEMONSTRATION/VALIDATION	128,055	128,055
R&D ENGINEERING DEVELOPMENT	143,527	158,527
Deployment of mTBI/concussion multi-modal devices		[10,000]
Program increase—freeze dried platelets		[5,000]
R&D MANAGEMENT AND SUPPORT	67,219	67,219
R&D CAPABILITIES ENHANCEMENT	16,819	16,819
PROC INITIAL OUTFITTING	26,135	26,135
PROC REPLACEMENT & MODERNIZATION	225,774	225,774
PROC JOINT OPERATIONAL MEDICINE INFORMATION SYSTEM	314	314
PROC MILITARY HEALTH SYSTEM—DESKTOP TO DATACENTER	73,010	73,010
PROC DOD HEALTHCARE MANAGEMENT SYSTEM MODERNIZATION	129,091	129,091
TOTAL DEFENSE HEALTH PROGRAM	**32,998,687**	**32,930,687**
TOTAL OTHER AUTHORIZATIONS	**36,573,298**	**37,184,903**

1 **SEC. 4502. OTHER AUTHORIZATIONS FOR OVERSEAS CON-**

2 **TINGENCY OPERATIONS.**

SEC. 4502. OTHER AUTHORIZATIONS FOR OVERSEAS CONTINGENCY OPERATIONS
(In Thousands of Dollars)

Item	FY 2020 Request	House Authorized
WORKING CAPITAL FUND, ARMY		
INDUSTRIAL OPERATIONS		
SUPPLY MANAGEMENT—ARMY	20,100	20,100
TOTAL WORKING CAPITAL FUND, ARMY	**20,100**	**20,100**
DRUG INTERDICTION & CTR-DRUG ACTIVITIES, DEF		
COUNTER-NARCOTICS SUPPORT	163,596	153,100
Unjustified growth		[–10,496]
TOTAL DRUG INTERDICTION & CTR-DRUG ACTIVITIES, DEF	**163,596**	**153,100**
OFFICE OF THE INSPECTOR GENERAL		
OFFICE OF THE INSPECTOR GENERAL	24,254	24,254
TOTAL OFFICE OF THE INSPECTOR GENERAL	**24,254**	**24,254**
DEFENSE HEALTH PROGRAM		
IN-HOUSE CARE	57,459	57,459
PRIVATE SECTOR CARE	287,487	287,487
CONSOLIDATED HEALTH SUPPORT	2,800	2,800
TOTAL DEFENSE HEALTH PROGRAM	**347,746**	**347,746**
TOTAL OTHER AUTHORIZATIONS	**555,696**	**545,200**

3 **TITLE XLVI—MILITARY**

4 **CONSTRUCTION**

5 **SEC. 4601. MILITARY CONSTRUCTION.**

SEC. 4601. MILITARY CONSTRUCTION
(In Thousands of Dollars)

Account	State/Country and Installation	Project Title	FY 2020 Request	House Agreement
	Alabama			
Army	Redstone Arsenal	Aircraft and Flight Equipment Building	38,000	38,000
	Colorado			
Army	Fort Carson	Company Operations Facility	71,000	71,000
	Georgia			
Army	Fort Gordon	Cyber Instructional Fac (Admin/Command)	107,000	70,000
Army	Hunter Army Airfield	Aircraft Maintenance Hangar	62,000	62,000
	Hawaii			
Army	Fort Shafter	Command and Control Facility, Incr 5	60,000	60,000
	Honduras			
Army	Soto Cano Air Base	Aircraft Maintenance Hangar	34,000	34,000
	Kentucky			
Army	Fort Campbell	Automated Infantry Platoon Battle Course	7,100	7,100
Army	Fort Campbell	Easements	3,200	3,200
Army	Fort Campbell	General Purpose Maintenance Shop	51,000	51,000
	Kwajalein			
Army	Kwajalein Atoll	Air Traffic Control Tower and Terminal	0	40,000
	Massachusetts			
Army	U.S. Army Natick Soldier Systems Center	Human Engineering Lab	50,000	50,000
	Michigan			
Army	Detroit Arsenal	Substation	24,000	24,000
	New York			
Army	Fort Drum	Railhead	0	21,000
Army	Fort Drum	Unmanned Aerial Vehicle Hangar	23,000	23,000
	North Carolina			
Army	Fort Bragg	Dining Facility	12,500	12,500

SEC. 4601. MILITARY CONSTRUCTION
(In Thousands of Dollars)

Account	State/Country and Installation	Project Title	FY 2020 Request	House Agreement
	Oklahoma			
Army	Fort Sill	Adv Individual Training Barracks Cplx, Ph2	73,000	73,000
	Pennsylvania			
Army	Carlisle Barracks	General Instruction Building	98,000	60,000
	South Carolina			
Army	Fort Jackson	Reception Complex, Ph2	54,000	54,000
	Texas			
Army	Corpus Christi Army Depot	Powertrain Facility (Machine Shop)	86,000	40,000
Army	Fort Hood	Barracks	32,000	32,000
Army	Fort Hood	Vehicle Bridge	0	18,500
	Virginia			
Army	Fort Belvoir	Secure Operations and Admin Facility	60,000	60,000
Army	Joint Base Langley-Eustis	Adv Individual Training Barracks Cplx, Ph4	55,000	55,000
	Washington			
Army	Joint Base Lewis-McChord	Information Systems Facility	46,000	46,000
	Worldwide Unspecified			
Army	Unspecified Worldwide Locations	Host Nation Support	31,000	31,000
Army	Unspecified Worldwide Locations	Planning and Design	94,099	105,099
Army	Unspecified Worldwide Locations	Unspecified Minor Construction	70,600	70,600
Army	Unspecified Worldwide Locations	Unspecified Worldwide Construction	211,000	0
	Arizona			
Navy	Marine Corps Air Station Yuma	Bachelor Enlisted Quarters	0	99,600
Navy	Marine Corps Air Station Yuma	Hangar 95 Renovation & Addition	90,160	90,160
	Bahrain Island			
Navy	SW Asia	Electrical System Upgrade	53,360	0
	California			
Navy	Camp Pendleton	62 Area Mess Hall and Consolidated Warehouse	71,700	71,700
Navy	Camp Pendleton	I MEF Consolidated Information Center	113,869	63,869
Navy	Marine Corps Air Station Miramar	Child Development Center	0	37,400
Navy	Naval Air Weapons Station China Lake	Runway & Taxiway Extension	64,500	64,500
Navy	Naval Base Coronado	Aircraft Paint Complex	0	79,000
Navy	Naval Base Coronado	Navy V–22 Hangar	86,830	86,830
Navy	Naval Base San Diego	Pier 8 Replacement (Inc)	59,353	59,353
Navy	Naval Base San Diego	PMO Facility Repair	0	9,900
Navy	Naval Weapons Station Seal Beach	Ammunition Pier	95,310	60,310
Navy	Naval Weapons Station Seal Beach	Missile Magazine	0	28,000
Navy	Travis Air Force Base	Alert Force Complex	64,000	64,000
	Connecticut			
Navy	Naval Submarine Base New London	SSN Berthing Pier 32	72,260	72,260
	District of Columbia			
Navy	Naval Observatory	Master Time Clocks & Operations Fac (Inc)	75,600	0
	Florida			
Navy	Blount Island	Police Station and EOC Facility	0	18,700
Navy	Naval Air Station Jacksonville	Targeting & Surveillance Syst Prod Supp Fac	32,420	32,420
	Guam			
Navy	Joint Region Marianas	Bachelor Enlisted Quarters H	164,100	64,100
Navy	Joint Region Marianas	EOD Compound Facilities	61,900	61,900
Navy	Joint Region Marianas	Machine Gun Range (Inc)	91,287	91,287
	Hawaii			
Navy	Marine Corps Air Station Kaneohe Bay	Bachelor Enlisted Quarters	134,050	134,050
Navy	Naval Ammunition Depot West Loch	Magazine Consolidation, Phase 1	53,790	53,790
	Italy			
Navy	Naval Air Station Sigonella	Communications Station	77,400	0
	Japan			
Navy	Fleet Activities Yokosuka	Pier 5 (Berths 2 and 3)	174,692	100,000
Navy	Marine Corps Air Station Iwakuni	VTOL Pad—South	15,870	15,870
	Maryland			
Navy	Saint Inigoes	Air Traffic Control Tower	0	15,000

SEC. 4601. MILITARY CONSTRUCTION
(In Thousands of Dollars)

Account	State/Country and Installation	Project Title	FY 2020 Request	House Agreement
	North Carolina			
Navy	Camp Lejeune	10th Marines Himars Complex	35,110	35,110
Navy	Camp Lejeune	2nd MARDIV/2nd MLG Ops Center Replacement	60,130	60,130
Navy	Camp Lejeune	2nd Radio BN Complex, Phase 2 (Inc)	25,650	25,650
Navy	Camp Lejeune	ACV-AAV Maintenance Facility Upgrades	11,570	0
Navy	Camp Lejeune	II MEF Operations Center Replacement	122,200	62,200
Navy	Marine Corps Air Station Cherry Point	Aircraft Maintenance Hangar (Inc)	73,970	73,970
Navy	Marine Corps Air Station Cherry Point	ATC Tower & Airfield Operations	61,340	61,340
Navy	Marine Corps Air Station Cherry Point	F–35 Training and Simulator Facility	53,230	53,230
Navy	Marine Corps Air Station Cherry Point	Flightline Utility Modernization (Inc)	51,860	51,860
Navy	Marine Corps Air Station New River	CH–53K Cargo Loading Trainer	11,320	11,320
	Pennsylvania			
Navy	Philadelphia	Machinery Control Development Center	0	66,000
	South Carolina			
Navy	Parris Island	Range Improvements & Modernization Phase 3	0	37,200
	Utah			
Navy	Hill Air Force Base	D5 Missile Motor Receipt/Storage Fac (Inc)	50,520	50,520
	Virginia			
Navy	Marine Corps Base Quantico	Wargaming Center	143,350	70,000
Navy	Naval Station Norfolk	Mariner Skills Training Center	79,100	79,100
Navy	Naval Station Norfolk	MH–60 & CMV–22B Corrison Control and Paint Facility.	0	49,000
Navy	Portsmouth Naval Shipyard	Dry Dock Flood Protection Improvements	48,930	48,930
Navy	Yorktown Naval Weapons Station	NMC Ordnance Facilities Recapitalization Phase 1	0	59,000
	Washington			
Navy	Bremerton	Dry Dock 4 & Pier 3 Modernization	51,010	51,010
Navy	Keyport	Undersea Vehicle Maintenance Facility	25,050	25,050
Navy	Naval Base Kitsap	Seawolf Service Pier Cost-to-Complete	0	48,000
	Worldwide Unspecified			
Navy	Unspecified Worldwide Locations	Planning and Design	167,715	178,715
Navy	Unspecified Worldwide Locations	Unspecified Minor Construction	81,237	81,237
	Alaska			
AF	Eielson Air Force Base	F–35 AME Storage Facility	8,600	8,600
	Arkansas			
AF	Little Rock Air Force Base	C–130H/J Fuselage Trainer Facility	47,000	47,000
AF	Little Rock Air Force Base	Dormitory Cost-to-Complete	0	7,000
	Australia			
AF	Tindal	APR—RAAF Tindal/Earth Covered Magazine	11,600	11,600
AF	Tindal	APR-RAAF Tindal/Bulk Storage Tanks	59,000	59,000
	California			
AF	Travis Air Force Base	KC–46A Alter B181/B185/B187 Squad Ops/AMU	6,600	6,600
AF	Travis Air Force Base	KC–46A Regional Maintenance Training Facility	19,500	19,500
AF	Travis Air Force Base	MMHAS Aiied Support	0	17,000
	Colorado			
AF	Peterson Air Force Base	Seonorth Theater Operational Support Facility	0	54,000
AF	Schriever Air Force Base	Consolidated Space Operations Facility	148,000	74,000
AF	United States Air Force Academy	Consolidate Cadet Prep School Dormitory	0	49,000
	Cyprus			
AF	Royal Air Force Akrotiri	New Dormitory for 1 ERS	27,000	27,000
	Georgia			
AF	Moody Air Force Base	41 RQS HH–60W Apron	0	12,500
	Guam			
AF	Joint Region Marianas	Munitions Storage Igloos III	65,000	65,000
	Illinois			
AF	Scott Air Force Base	Joint Operations & Mission Planning Center	100,000	100,000
	Japan			
AF	Yokota Air Base	Fuel Receipt & Distribution Upgrade	12,400	12,400
	Jordan			
AF	Azraq	Air Traffic Control Tower	24,000	0
AF	Azraq	Munitions Storage Area	42,000	0
	Mariana Islands			
AF	Tinian	Airfield Development Phase 1	109,000	25,000

SEC. 4601. MILITARY CONSTRUCTION
(In Thousands of Dollars)

Account	State/Country and Installation	Project Title	FY 2020 Request	House Agreement
AF	Tinian	Fuel Tanks W/ Pipeline/Hydrant System	109,000	25,000
AF	Tinian	Parking Apron	98,000	25,000
	Maryland			
AF	Joint Base Andrews	Presidential Aircraft Recap Complex Inc 3	86,000	86,000
	Massachusetts			
AF	Hanscom Air Force Base	MIT-Lincoln Lab (West Lab CSL/MIF) Inc 2	135,000	100,000
	Missouri			
AF	Whiteman Air Force Base	Consolidated Vehicle Ops and MX Facility	0	27,000
	Montana			
AF	Malmstrom Air Force Base	Weapons Storage and Maintenance Facility	235,000	117,500
	Nevada			
AF	Nellis Air Force Base	365th ISR Group Facility	57,000	57,000
AF	Nellis Air Force Base	F–35 Munitions Maintenance Facilities Cost-to-Complete.	0	3,100
AF	Nellis Air Force Base	F–35A Munitions Assembly Conveyor Facility	8,200	8,200
	New Mexico			
AF	Holloman Air Force Base	NC3 Support Wrm Storage/Shipping Facility	0	20,000
AF	Kirtland Air Force Base	Combat Rescue Helicopter Simulator (CRH) ADAL.	15,500	15,500
AF	Kirtland Air Force Base	UH–1 Replacement Facility	22,400	22,400
	North Dakota			
AF	Minot Air Force Base	Helo/TRFOps/AMUfacility	5,500	5,500
	Ohio			
AF	Wright-Patterson Air Force Base	ADAL Intelligence Prod. Complex (NASIC) Inc 2	120,900	120,900
	Texas			
AF	Joint Base San Antonio	Aquatics Tank	69,000	69,000
AF	Joint Base San Antonio	BMT Recruit Dormitory 8	110,000	110,000
AF	Joint Base San Antonio	T-XA DAL Ground Based Trng Sys (GBTS) Sim	9,300	9,300
AF	Joint Base San Antonio	T-XMX Trng Sys Centrailized Trng Fac	19,000	19,000
AF	Joint Base San Antonio-Randolph	AFPC B-Wing	0	36,000
	United Kingdom			
AF	Royal Air Force Lakenheath	F–35A PGM Facility	14,300	14,300
	Utah			
AF	Hill Air Force Base	GBSD Mission Integration Facility	108,000	40,000
AF	Hill Air Force Base	Joint Advanced Tactical Missile Storage Fac	6,500	6,500
	Washington			
AF	Fairchild Air Force Base	Consolidated TFI Base Operations	31,000	31,000
AF	Fairchild Air Force Base	SERE Pipeline Dormitory Cost-to-Complete	0	4,800
	Worldwide Unspecified			
AF	Various Worldwide Locations	Planning and Design	142,148	153,148
AF	Various Worldwide Locations	Unspecified Minor Construction	79,682	79,682
	Wyoming			
AF	F. E. Warren Air Force Base	Consolidated Helo/TRF Ops/AMU and Alert Fac	18,100	18,100
	California			
Def-Wide	Beale Air Force Base	Hydrant Fuel System Replacement	33,700	33,700
Def-Wide	Camp Pendleton	Ambul Care Center/Dental Clinic Replacement	17,700	17,700
	Conus Classified			
Def-Wide	Classified Location	Battalion Complex, Ph 3	82,200	82,200
	Florida			
Def-Wide	Eglin Air Force Base	SOF Combined Squadron Ops Facility	16,500	16,500
Def-Wide	Hurlburt Field	SOF AMU & Weapons Hangar	72,923	72,923
Def-Wide	Hurlburt Field	SOF Combined Squadron Operations Facility	16,513	16,513
Def-Wide	Hurlburt Field	SOF Maintenance Training Facility	18,950	18,950
Def-Wide	Naval Air Station Key West	SOF Watercraft Maintenance Facility	16,000	16,000
	Germany			
Def-Wide	Geilenkirchen Air Base	Ambulatory Care Center/Dental Clinic	30,479	30,479
	Guam			
Def-Wide	Joint Region Marianas	Xray Wharf Refueling Facility	19,200	19,200
	Hawaii			
Def-Wide	Joint Base Pearl Harbor-Hickam	SOF Undersea Operational Training Facility	67,700	67,700

SEC. 4601. MILITARY CONSTRUCTION
(In Thousands of Dollars)

Account	State/Country and Installation	Project Title	FY 2020 Request	House Agreement
	Japan			
Def-Wide	Yokosuka	Kinnick High School Inc 2	130,386	0
Def-Wide	Yokota Air Base	Bulk Storage Tanks PH1	116,305	20,000
Def-Wide	Yokota Air Base	Pacific East District Superintendent's Office	20,106	20,106
	Maryland			
Def-Wide	Bethesda Naval Hospital	MEDCEN Addition/Altertion Incr 3	96,900	33,000
Def-Wide	Fort Detrick	Medical Research Acquisition Building	27,846	27,846
Def-Wide	Fort Meade	NSAW Recapitalize Building #3 Inc 2	426,000	426,000
	Mississippi			
Def-Wide	Columbus Air Force Base	Fuel Facilities Replacement	16,800	16,800
	Missouri			
Def-Wide	Fort Leonard Wood	Hospital Replacement Incr 2	50,000	50,000
Def-Wide	St. Louis	Next NGA West (N2W) Complex Phase 2 Inc. 2	218,800	118,800
	North Carolina			
Def-Wide	Camp Lejeune	SOF Marine Raider Regiment HQ	13,400	13,400
Def-Wide	Fort Bragg	SOF Assessment and Selection Training Complex	12,103	12,103
Def-Wide	Fort Bragg	SOF Human Platform-Force Generation Facility	43,000	43,000
Def-Wide	Fort Bragg	SOF Operations Support Bldg	29,000	29,000
	Oklahoma			
Def-Wide	Tulsa IAP	Fuels Storage Complex	18,900	18,900
	Rhode Island			
Def-Wide	Quonset State Airport	Fuels Storage Complex Replacement	11,600	11,600
	South Carolina			
Def-Wide	Joint Base Charleston	Medical Consolidated Storage & Distrib Center	33,300	33,300
	South Dakota			
Def-Wide	Ellsworth Air Force Base	Hydrant Fuel System Replacement	24,800	24,800
	Virginia			
Def-Wide	Defense Distribution Depot Richmond	Operations Center Phase 2	98,800	33,000
Def-Wide	Joint Expeditionary Base Little Creek—Fort Story	SOF NSWG–10 Operations Support Facility	32,600	32,600
Def-Wide	Joint Expeditionary Base Little Creek—Fort Story	SOF NSWG2 JSOTF Ops Training Facility	13,004	13,004
Def-Wide	Pentagon	Backup Generator	8,670	8,670
Def-Wide	Pentagon	Control Tower & Fire Day Station	20,132	20,132
Def-Wide	Training Center Dam Neck	SOF Demolition Training Compound Expansion	12,770	12,770
	Washington			
Def-Wide	Joint Base Lewis-McChord	SOF 22 STS Operations Facility	47,700	47,700
	Wisconsin			
Def-Wide	Gen Mitchell IAP	POL Facilities Replacement	25,900	25,900
	Worldwide Classified			
Def-Wide	Classified Location	Mission Support Compound	52,000	0
	Worldwide Unspecified			
Def-Wide	Unspecified Worldwide Locations	Contingency Construction	10,000	0
Def-Wide	Unspecified Worldwide Locations	Energy Resilience and Conserv. Invest. Prog.	150,000	190,000
Def-Wide	Unspecified Worldwide Locations	ERCIP Design	10,000	10,000
Def-Wide	Unspecified Worldwide Locations	Exercise Related Minor Construction	11,770	11,770
Def-Wide	Unspecified Worldwide Locations	Planning and Design	99,441	99,441
Def-Wide	Unspecified Worldwide Locations	Unspecified Minor Construction	60,642	60,642
Def-Wide	Various Worldwide Locations	Planning and Design	142,914	142,914
Def-Wide	Various Worldwide Locations	Unspecified Minor Construction	26,736	26,736
NATO	NATO Security Investment Program	NATO Security Investment Program	144,040	172,005
	Alabama			
Army NG	Anniston Army Depot	Enlisted Transient Barracks	0	34,000
Army NG	Foley	National Guard Readiness Center	12,000	12,000
	California			
Army NG	Camp Roberts	Automated Multipurpose Machine Gun Range	12,000	12,000
	Idaho			
Army NG	Orchard Combat Training Center	Railroad Tracks	29,000	29,000
	Maryland			
Army NG	Havre de Grace	Combined Support Maintenance Shop	12,000	12,000

SEC. 4601. MILITARY CONSTRUCTION
(In Thousands of Dollars)

Account	State/Country and Installation	Project Title	FY 2020 Request	House Agreement
	Massachusetts			
Army NG	Camp Edwards	Automated Multipurpose Machine Gun Range	9,700	9,700
	Minnesota			
Army NG	New Ulm	National Guard Vehicle Maintenance Shop	11,200	11,200
	Mississippi			
Army NG	Camp Shelby	Automated Multipurpose Machine Gun Range	8,100	8,100
	Missouri			
Army NG	Springfield	National Guard Readiness Center	12,000	12,000
	Nebraska			
Army NG	Bellevue	National Guard Readiness Center	29,000	29,000
	New Hampshire			
Army NG	Concord	National Guard Readiness Center	5,950	5,950
	New York			
Army NG	Jamaica Armory	National Guard Readiness Center	0	91,000
	Pennsylvania			
Army NG	Moon Township	Combined Support Maintenance Shop	23,000	23,000
	Vermont			
Army NG	Jericho	General Instruction Builiding	0	30,000
	Washington			
Army NG	Richland	National Guard Readiness Center	11,400	11,400
	Worldwide Unspecified			
Army NG	Unspecified Worldwide Locations	Planning and Design	20,469	20,469
Army NG	Unspecified Worldwide Locations	Unspecified Minor Construction	15,000	15,000
	Delaware			
Army Res	Newark	Army Reserve Center/BMA	21,000	21,000
	Wisconsin			
Army Res	Fort McCoy	Transient Training Barracks	25,000	25,000
	Worldwide Unspecified			
Army Res	Unspecified Worldwide Locations	Planning and Design	6,000	6,000
Army Res	Unspecified Worldwide Locations	Unspecified Minor Construction	8,928	8,928
	Louisiana			
N/MC Res	New Orleans	Entry Control Facility Upgrades	25,260	25,260
	Worldwide Unspecified			
N/MC Res	Unspecified Worldwide Locations	Planning and Design	4,780	4,780
N/MC Res	Unspecified Worldwide Locations	Unspecified Minor Construction	24,915	24,915
	California			
Air NG	Moffett Air National Guard Base	Fuels/Corrosion Control Hanger and Shops	0	57,000
	Georgia			
Air NG	Savannah/Hilton Head IAP	Consolidated Joint Air Dominance Hangar/Shops	24,000	24,000
	Missouri			
Air NG	Roseerans Memorial Airport	C–130 Flight Simulator Facility	9,500	9,500
	Puerto Rico			
Air NG	Luis Munoz-Marin IAP	Communications Facility	12,500	0
Air NG	Luis Munoz-Marin IAP	Maintenance Hangar	37,500	0
	Wisconsin			
Air NG	Truax Field	F–35 Simulator Facility	14,000	14,000
Air NG	Truax Field	Fighter Alert Shelters	20,000	20,000
	Worldwide Unspecified			
Air NG	Unspecified Worldwide Locations	Unspecified Minor Construction	31,471	31,471
Air NG	Various Worldwide Locations	Planning and Design	17,000	17,000
	Georgia			
AF Res	Robins Air Force Base	Consolidated Misssion Complex Phase 3	43,000	43,000
	Maryland			
AF Res	Joint Base Andrews	AES Training Admin Facility	0	15,000
	Minnesota			
AF Res	Minneapolis-St. Paul IAP	Aerial Port Facility	0	9,800
	Worldwide Unspecified			
AF Res	Unspecified Worldwide Locations	Planning and Design	4,604	4,604
AF Res	Unspecified Worldwide Locations	Unspecified Minor Construction	12,146	12,146
	Germany			
FH Con Army	Baumholder	Family Housing Improvements	29,983	29,983
	Korea			
FH Con Army	Camp Humphreys	Family Housing New Construction Incr 4	83,167	83,167
	Pennsylvania			

SEC. 4601. MILITARY CONSTRUCTION
(In Thousands of Dollars)

Account	State/Country and Installation	Project Title	FY 2020 Request	House Agreement
FH Con Army	Tobyhanna Army Depot	Family Housing Replacement Construction	19,000	19,000
	Worldwide Unspecified			
FH Con Army	Unspecified Worldwide Locations	Family Housing P & D	9,222	9,222
FH Ops Army	Unspecified Worldwide Locations	Furnishings	24,027	24,027
FH Ops Army	Unspecified Worldwide Locations	Housing Privatization Support	18,627	68,627
FH Ops Army	Unspecified Worldwide Locations	Leasing	128,938	128,938
FH Ops Army	Unspecified Worldwide Locations	Maintenance	81,065	81,065
FH Ops Army	Unspecified Worldwide Locations	Management	38,898	38,898
FH Ops Army	Unspecified Worldwide Locations	Miscellaneous	484	484
FH Ops Army	Unspecified Worldwide Locations	Services	10,156	10,156
FH Ops Army	Unspecified Worldwide Locations	Utilities	55,712	55,712
FH Con Navy	Unspecified Worldwide Locations	Construction Improvements	41,798	41,798
FH Con Navy	Unspecified Worldwide Locations	Planning & Design	3,863	3,863
FH Con Navy	Unspecified Worldwide Locations	USMC DPRI/Guam Planning and Design	2,000	2,000
FH Ops Navy	Unspecified Worldwide Locations	Furnishings	19,009	19,009
FH Ops Navy	Unspecified Worldwide Locations	Housing Privatization Support	21,975	81,575
FH Ops Navy	Unspecified Worldwide Locations	Leasing	64,126	64,126
FH Ops Navy	Unspecified Worldwide Locations	Maintenance	82,611	82,611
FH Ops Navy	Unspecified Worldwide Locations	Management	50,122	50,122
FH Ops Navy	Unspecified Worldwide Locations	Miscellaneous	151	151
FH Ops Navy	Unspecified Worldwide Locations	Services	16,647	16,647
FH Ops Navy	Unspecified Worldwide Locations	Utilities	63,229	63,229
	Germany			
FH Con AF	Spangdahlem Air Base	Construct Deficit Military Family Housing	53,584	53,584
	Worldwide Unspecified			
FH Con AF	Unspecified Worldwide Locations	Construction Improvements	46,638	46,638
FH Con AF	Unspecified Worldwide Locations	Planning & Design	3,409	3,409
FH Ops AF	Unspecified Worldwide Locations	Furnishings	30,283	30,283
FH Ops AF	Unspecified Worldwide Locations	Housing Privatization	22,593	53,793
FH Ops AF	Unspecified Worldwide Locations	Leasing	15,768	15,768
FH Ops AF	Unspecified Worldwide Locations	Maintenance	117,704	117,704
FH Ops AF	Unspecified Worldwide Locations	Management	56,022	56,022
FH Ops AF	Unspecified Worldwide Locations	Miscellaneous	2,144	2,144
FH Ops AF	Unspecified Worldwide Locations	Services	7,770	7,770
FH Ops AF	Unspecified Worldwide Locations	Utilities	42,732	42,732
FH Ops DW	Unspecified Worldwide Locations	Furnishings	727	727
FH Ops DW	Unspecified Worldwide Locations	Leasing	52,128	52,128
FH Ops DW	Unspecified Worldwide Locations	Maintenance	32	32
FH Ops DW	Unspecified Worldwide Locations	Utilities	4,113	4,113
FHIF	Unspecified Worldwide Locations	Administrative Expenses—FHIF	3,045	3,045
UHIF	Unspecified Worldwide Locations	Administrative Expenses—UHIF	500	500

SEC. 4601. MILITARY CONSTRUCTION
(In Thousands of Dollars)

Account	State/Country and Installation	Project Title	FY 2020 Request	House Agreement
BRAC	Worldwide Unspecified Locations	Base Realignment and Closure	66,111	96,111
BRAC	Unspecified Worldwide Locations	Base Realignment & Closure	158,349	218,349
BRAC	Unspecified Worldwide Locations	DoD BRAC Activities—Air Force	54,066	84,066
	Prior Year Savings			
PYS	Prior Year Savings	Prior Year Savings	0	–45,055

1 **SEC. 4602. MILITARY CONSTRUCTION FOR OVERSEAS CON-**

2 **TINGENCY OPERATIONS.**

SEC. 4602. MILITARY CONSTRUCTION FOR OVERSEAS CONTINGENCY OPERATIONS
(In Thousands of Dollars)

Account	State/Country and Installation	Project Title	FY 2020 Request	House Agreement
	Guantanamo Bay, Cuba			
Army	Guantanamo Bay Naval Station	OCO: Communications Facility	22,000	22,000
Army	Guantanamo Bay Naval Station	OCO: Detention Legal Office and Comms Ctr	11,800	11,800
Army	Guantanamo Bay Naval Station	OCO: High Value Detention Facility	88,500	0
	Worldwide Unspecified			
Army	Unspecified Worldwide Locations	EDI/OCO Planning and Design	19,498	19,498
Army	Unspecified Worldwide Locations	EDI: Bulk Fuel Storage	36,000	36,000
Army	Unspecified Worldwide Locations	EDI: Information Systems Facility	6,200	6,200
Army	Unspecified Worldwide Locations	EDI: Minor Construction	5,220	5,220
Army	Unspecified Worldwide Locations	Unspecified Worldwide Construction	9,200,000	0
Army	Various Worldwide Locations	EDI: Various Worldwide Locations Europe	0	56,142
	Bahrain			
Navy	SW Asia	Electrical System Upgrade	0	53,360
	Italy			
Navy	Sigonella	Communications Station	0	77,400
	Spain			
Navy	Rota	EDI: In-Transit Munitions Facility	9,960	9,960
Navy	Rota	EDI: Joint Mobility Center	46,840	46,840
Navy	Rota	EDI: Small Craft Berthing Facility	12,770	12,770
	Worldwide Unspecified			
Navy	Unspecified Worldwide Locations	Planning and Design	25,000	25,000
Navy	Various Worldwide Locations	EDI: Various Worldwide Locations Europe	0	56,246
	Iceland			
AF	Keflavik	EDI-Airfield Upgrades—Dangerous Cargo Pad	18,000	18,000
AF	Keflavik	EDI-Beddown Site Prep	7,000	7,000
AF	Keflavik	EDI-Expand Parking Apron	32,000	32,000
	Jordan			
AF	Azraq	Air Traffic Control Tower	0	24,000
AF	Azraq	Munitions Storage Area	0	42,000
	Spain			
AF	Moron	EDI-Hot Cargo Pad	8,500	8,500
	Worldwide Unspecified			
AF	Unspecified Worldwide Locations	EDI-ECAOS DABS/FEV EMEDS Storage	107,000	107,000
AF	Unspecified Worldwide Locations	EDI-Hot Cargo Pad	29,000	29,000
AF	Unspecified Worldwide Locations	EDI-Munitions Storage Area	39,000	39,000
AF	Various Worldwide Locations	EDI: Various Worldwide Locations Europe	0	56,246
AF	Various Worldwide Locations	EDI-P&D	61,438	61,438
AF	Various Worldwide Locations	EDI-UMMC	12,800	12,800
	Germany			
Def-Wide	Gemersheim	EDI: Logistics Distribution Center Annex	46,000	46,000

TITLE XLVII—DEPARTMENT OF ENERGY NATIONAL SECURITY PROGRAMS

SEC. 4701. DEPARTMENT OF ENERGY NATIONAL SECURITY PROGRAMS.

SEC. 4701. DEPARTMENT OF ENERGY NATIONAL SECURITY PROGRAMS
(In Thousands of Dollars)

Program	FY 2020 Request	House Authorized
Discretionary Summary By Appropriation		
Energy And Water Development, And Related Agencies		
Appropriation Summary:		
Energy Programs		
Nuclear Energy	137,808	137,808
Atomic Energy Defense Activities		
National nuclear security administration:		
Weapons activities	12,408,603	11,807,074
Defense nuclear nonproliferation	1,993,302	2,005,087
Naval reactors	1,648,396	1,632,142
Federal salaries and expenses	434,699	410,000
Total, National nuclear security administration	**16,485,000**	**15,854,303**
Environmental and other defense activities:		
Defense environmental cleanup	5,506,501	5,616,001
Other defense activities	1,035,339	1,035,339
Defense nuclear waste disposal	26,000	0
Total, Environmental & other defense activities	**6,567,840**	**6,651,340**
Total, Atomic Energy Defense Activities	**23,052,840**	**22,505,643**
Total, Discretionary Funding	**23,190,648**	**22,643,451**
Nuclear Energy		
Idaho sitewide safeguards and security	137,808	137,808
Total, Nuclear Energy	**137,808**	**137,808**
Weapons Activities		
Directed stockpile work		
Life extension programs and major alterations		
B61–12 Life extension program	792,611	792,611
W76–2 Modification program	10,000	0
Terminate effort		[–10,000]
W88 Alt 370	304,186	304,186
W80–4 Life extension program	898,551	898,551
W87–1 Modification Program (formerly IW1)	112,011	53,000
Unjustified growth		[–59,011]
Total, Life extension programs and major alterations	**2,117,359**	**2,048,348**
Stockpile systems		
B61 Stockpile systems	71,232	71,232
W76 Stockpile systems	89,804	89,804
W78 Stockpile systems	81,299	81,299
W80 Stockpile systems	85,811	80,204
Unjustified study requirement		[–5,607]
B83 Stockpile systems	51,543	22,421
Unjustified growth		[–29,122]
W87 Stockpile systems	98,262	98,262
W88 Stockpile systems	157,815	157,815
Total, Stockpile systems	**635,766**	**601,037**
Weapons dismantlement and disposition		
Operations and maintenance	47,500	47,500
Stockpile services		
Production support	543,964	510,000

SEC. 4701. DEPARTMENT OF ENERGY NATIONAL SECURITY PROGRAMS
(In Thousands of Dollars)

Program	FY 2020 Request	House Authorized
Unjustified program growth		[–33,964]
Research and development support	39,339	36,150
Unjustified program growth		[–3,189]
R&D certification and safety	236,235	201,840
Unjustified program growth		[–34,395]
Management, technology, and production	305,000	305,000
Total, Stockpile services	**1,124,538**	**1,052,990**
Strategic materials		
Uranium sustainment	94,146	94,146
Plutonium sustainment	712,440	471,309
Pit production beyond 30 pits per year		[–241,131]
Tritium sustainment	269,000	269,000
Lithium sustainment	28,800	28,800
Domestic uranium enrichment	140,000	140,000
Strategic materials sustainment	256,808	256,808
Total, Strategic materials	**1,501,194**	**1,260,063**
Total, Directed stockpile work	**5,426,357**	**5,009,938**
Research, development, test and evaluation (RDT&E)		
Science		
Advanced certification	57,710	57,710
Primary assessment technologies	95,169	95,169
Dynamic materials properties	133,800	133,800
Advanced radiography	32,544	32,544
Secondary assessment technologies	77,553	77,553
Academic alliances and partnerships	44,625	44,625
Enhanced Capabilities for Subcritical Experiments	145,160	145,160
Total, Science	**586,561**	**586,561**
Engineering		
Enhanced surety	46,500	39,717
Unjustified program growth		[–6,783]
Delivery Environments (formerly Weapons Systems Engineering Assessment Technology)	35,945	23,029
Unjustified program growth		[–12,916]
Nuclear survivability	53,932	53,932
Enhanced surveillance	57,747	57,747
Stockpile Responsiveness	39,830	5,000
Unjustified request		[–34,830]
Total, Engineering	**233,954**	**179,425**
Inertial confinement fusion ignition and high yield		
Ignition and Other Stockpile Programs	55,649	55,649
Diagnostics, cryogenics and experimental support	66,128	66,128
Pulsed power inertial confinement fusion	8,571	8,571
Joint program in high energy density laboratory plasmas	12,000	12,000
Facility operations and target production	338,247	338,247
High energy density R&D	0	0
National ignition facility, LLNL	0	0
Z Facility, SNL	0	0
Omega laser facility, URochester	0	0
Total, Inertial confinement fusion and high yield	**480,595**	**480,595**
Advanced simulation and computing		
Advanced simulation and computing	789,849	789,849
Construction:		
18–D–620, Exascale Computing Facility Modernization Project, LLNL	50,000	50,000
Total, Construction	**50,000**	**50,000**
Total, Advanced simulation and computing	**839,849**	**839,849**
Advanced manufacturing		
Additive manufacturing	18,500	18,500
Component manufacturing development	48,410	48,410
Process technology development	69,998	30,914
Unjustified program growth		[–39,804]
Total, Advanced manufacturing	**136,908**	**97,824**
Total, RDT&E	**2,277,867**	**2,184,254**

SEC. 4701. DEPARTMENT OF ENERGY NATIONAL SECURITY PROGRAMS
(In Thousands of Dollars)

Program	FY 2020 Request	House Authorized
Infrastructure and operations		
Operations of facilities	905,000	870,000
Unjustified program growth		[–35,000]
Safety and environmental operations	119,000	110,000
Unjustified program growth		[–9,000]
Maintenance and repair of facilities	456,000	456,000
Recapitalization:		
Infrastructure and safety	447,657	447,657
Capability based investments	135,341	109,057
Unjustified program growth		[–26,284]
Total, Recapitalization	**582,998**	**556,714**
Construction:		
19–D–670, 138kV Power Transmission System Replacement, NNSS	6,000	6,000
18–D–690, Lithium Processing Facility, Y–12 (formerly Lithium Production Capability, Y–12)	32,000	39,000
Program increase		[7,000]
18–D–650, Tritium Finishing Facility, SRS	27,000	27,000
17–D–640, U1a Complex Enhancements Project, NNSS	35,000	35,000
15–D–612, Emergency Operations Center, LLNL	5,000	5,000
15–D–611, Emergency Operations Center, SNL	4,000	4,000
15–D–301, HE Science & Engineering Facility, PX	123,000	123,000
06–D–141 Uranium processing facility Y–12, Oak Ridge, TN	745,000	745,000
04–D–125, Chemistry and Metallurgy Research Replacement Project, LANL	168,444	168,444
Total, Construction	**1,145,444**	**1,152,444**
Total, Infrastructure and operations	**3,208,442**	**3,145,158**
Secure transportation asset		
Operations and equipment	209,502	209,502
Program direction	107,660	107,660
Total, Secure transportation asset	**317,162**	**317,162**
Defense nuclear security		
Operations and maintenance	778,213	750,000
Excess to need		[–28,213]
Total, Defense nuclear security	**778,213**	**750,000**
Information technology and cybersecurity	309,362	309,362
Legacy contractor pensions	91,200	91,200
Total, Weapons Activities	**12,408,603**	**11,807,074**
Defense Nuclear Nonproliferation		
Defense Nuclear Nonproliferation Programs		
Global material security		
International nuclear security	48,839	48,839
Domestic radiological security	90,513	90,513
International radiological security	60,827	80,827
Secure additional radiologic materials		[20,000]
Nuclear smuggling detection and deterrence	142,171	142,171
Total, Global material security	**342,350**	**362,350**
Material management and minimization		
HEU reactor conversion	114,000	114,000
Nuclear material removal	32,925	32,925
Material disposition	186,608	186,608
Total, Material management & minimization	**333,533**	**333,533**
Nonproliferation and arms control	137,267	137,267
Defense nuclear nonproliferation R&D	495,357	525,357
Proliferation detection research		[15,000]
Additional verification and detection effort		[15,000]
Nonproliferation Construction:		
18–D–150 Surplus Plutonium Disposition Project	79,000	79,000
99–D–143 Mixed Oxide (MOX) Fuel Fabrication Facility, SRS	220,000	213,500
Program decrease		[–6,500]
Total, Nonproliferation construction	**299,000**	**292,500**

SEC. 4701. DEPARTMENT OF ENERGY NATIONAL SECURITY PROGRAMS
(In Thousands of Dollars)

Program	FY 2020 Request	House Authorized
Total, Defense Nuclear Nonproliferation Programs	**1,607,507**	**1,651,007**
Legacy contractor pensions	13,700	13,700
Nuclear counterterrorism and incident response program	372,095	340,380
Unjustified cost growth		[–31,715]
Total, Defense Nuclear Nonproliferation	**1,993,302**	**2,005,087**
Naval Reactors		
Naval reactors development	531,205	514,951
Unjustified growth		[–16,254]
Columbia-Class reactor systems development	75,500	75,500
S8G Prototype refueling	155,000	155,000
Naval reactors operations and infrastructure	553,591	553,591
Construction:		
20-D–931, KL Fuel Development Laboratory	23,700	23,700
19–D–930, KS Overhead Piping	20,900	20,900
14–D–901 Spent fuel handling recapitalization project, NRF	238,000	238,000
Total, Construction	**282,600**	**282,600**
Program direction	50,500	50,500
Total, Naval Reactors	**1,648,396**	**1,632,142**
Federal Salaries And Expenses		
Program direction	434,699	410,000
Unjustified growth		[–24,699]
Total, Office Of The Administrator	**434,699**	**410,000**
Defense Environmental Cleanup		
Closure sites:		
Closure sites administration	4,987	4,987
Richland:		
River corridor and other cleanup operations	139,750	139,750
Central plateau remediation	472,949	522,949
Program increase		[50,000]
Richland community and regulatory support	5,121	5,121
Construction:		
18–D–404 WESF Modifications and Capsule Storage	11,000	11,000
Total, Construction	**11,000**	**11,000**
Total, Hanford site	**628,820**	**678,820**
Office of River Protection:		
Waste Treatment Immobilization Plant Commissioning	15,000	15,000
Rad liquid tank waste stabilization and disposition	677,460	705,460
Program increase		[28,000]
Construction:		
18–D–16 Waste treatment and immobilization plant—LBL/Direct feed LAW	640,000	640,000
01–D–16 D, High-level waste facility	30,000	30,000
01–D–16 E—Pretreatment Facility	20,000	20,000
Total, Construction	**690,000**	**690,000**
ORP Low-level waste offsite disposal	10,000	10,000
Total, Office of River Protection	**1,392,460**	**1,420,460**
Idaho National Laboratory:		
Idaho cleanup and waste disposition	331,354	331,354
Idaho community and regulatory support	3,500	3,500
Total, Idaho National Laboratory	**334,854**	**334,854**
NNSA sites and Nevada off-sites		
Lawrence Livermore National Laboratory	1,727	1,727
LLNL Excess facilities R&D	128,000	128,000
Nuclear facility D & D		
Separations Process Research Unit	15,300	15,300
Nevada	60,737	60,737
Sandia National Laboratories	2,652	2,652

SEC. 4701. DEPARTMENT OF ENERGY NATIONAL SECURITY PROGRAMS
(In Thousands of Dollars)

Program	FY 2020 Request	House Authorized
Los Alamos National Laboratory	195,462	195,462
Total, NNSA sites and Nevada off-sites	**403,878**	**403,878**
Oak Ridge Reservation:		
OR Nuclear facility D & D	93,693	93,693
Total, OR Nuclear facility D & D	**93,693**	**93,693**
U233 Disposition Program	45,000	45,000
OR cleanup and waste disposition		
OR cleanup and disposition	82,000	82,000
Construction:		
17–D–401 On-site waste disposal facility	15,269	15,269
14–D–403 Outfall 200 Mercury Treatment Facility	49,000	49,000
Total, Construction	**64,269**	**64,269**
Total, OR cleanup and waste disposition	**146,269**	**146,269**
OR community & regulatory support	4,819	4,819
OR technology development and deployment	3,000	3,000
OR Excess facilities D&D		0
Total, Oak Ridge Reservation	**292,781**	**292,781**
Savannah River Sites:		
Savannah River risk management operations		
Savannah River risk management operations	490,613	515,613
Program increase		[25,000]
Construction:		
18–D–402, Emergency Operations Center	6,792	6,792
Total, risk management operations	**497,405**	**522,405**
SR community and regulatory support	4,749	11,249
Program increase		[6,500]
Radioactive liquid tank waste stabilization and disposition	797,706	797,706
Construction:		
20-D–402 Advanced Manufacturing Collaborative Facility (AMC)	50,000	50,000
20-D–401 Saltstone Disposal Unit #10, 11, 12	500	500
18–D–402 Saltstone Disposal Unit #8/9	51,750	51,750
17–D–402 Saltstone Disposal Unit #7	40,034	40,034
05–D–405 Salt waste processing facility, Savannah River Site	20,988	20,988
Total, Construction	**163,272**	**163,272**
Total, Savannah River site	**1,463,132**	**1,494,632**
Waste Isolation Pilot Plant		
Waste Isolation Pilot Plant	299,088	299,088
Construction:		
15–D–411 Safety significant confinement ventilation system, WIPP	58,054	58,054
15–D–412 Exhaust shaft, WIPP	34,500	34,500
Total, Construction	**92,554**	**92,554**
Total, Waste Isolation Pilot Plant	**391,642**	**391,642**
Program direction	278,908	278,908
Program support	12,979	12,979
Safeguards and Security		
Safeguards and Security	317,622	317,622
Total, Safeguards and Security	**317,622**	**317,622**
Use of prior year balances	–15,562	–15,562
Total, Defense Environmental Cleanup	**5,506,501**	**5,616,001**
Other Defense Activities		
Environment, health, safety and security		
Environment, health, safety and security	139,628	139,628
Program direction	72,881	72,881
Total, Environment, Health, safety and security	**212,509**	**212,509**
Independent enterprise assessments		
Independent enterprise assessments	24,068	24,068
Program direction	57,211	57,211
Total, Independent enterprise assessments	**81,279**	**81,279**

SEC. 4701. DEPARTMENT OF ENERGY NATIONAL SECURITY PROGRAMS
(In Thousands of Dollars)

Program	FY 2020 Request	House Authorized
Specialized security activities	254,578	254,578
Office of Legacy Management		
Legacy management	283,767	283,767
Program direction	19,262	19,262
Total, Office of Legacy Management	**303,029**	**303,029**
Defense related administrative support		
Chief financial officer	54,538	54,538
Chief information officer	124,554	124,554
Total, Defense related administrative support	**179,092**	**179,092**
Office of hearings and appeals	4,852	4,852
Subtotal, Other defense activities	**1,035,339**	**1,035,339**
Total, Other Defense Activities	**1,035,339**	**1,035,339**
Defense Nuclear Waste Disposal		
Yucca mountain and interim storage	26,000	0
Program cut	0	[–26,000]
Total, Defense Nuclear Waste Disposal	**26,000**	**0**

Amend the title so as to read: ''A bill to authorize appropriations for fiscal year 2020 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.''.