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SENATE

{ REPORT
115-290

DEPARTMENT OF DEFENSE APPROPRIATIONS BILL, 2019

JUNE 28, 2018.—Ordered to be printed

Mr. SHELBY, from the Committee on Appropriations,
submitted the following

REPORT

[To accompany S. 3159]

The Committee on Appropriations reports the bill (S. 3159) making appropriations for the Department of Defense for the fiscal year ending September 30, 2019, and for other purposes, reports favorably thereon and recommends that the bill do pass.

New obligational authority

| | |
|---|-------------------|
| Total of bill as reported to the Senate | \$667,980,036,000 |
| Amount of 2018 appropriations | 652,360,608,000 |
| Amount of 2019 budget estimate | 668,409,933,000 |
| Bill as recommended to Senate compared to— | |
| 2018 appropriations | + 15,619,428,000 |
| 2019 budget estimate | – 429,897,000 |

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BACKGROUND

PURPOSE OF THE BILL

This bill makes appropriations for the military functions of the Department of Defense for the period October 1, 2018, through September 30, 2019. Functional areas include the pay, allowances, and support of military personnel, operation and maintenance of the forces, procurement of equipment and systems, and research, development, test and evaluation. Appropriations for foreign military assistance, military construction, family housing, nuclear weapons programs, and civil defense are provided in other bills.

HEARINGS

The Appropriations Subcommittee on Defense began hearings on April 11, 2018, and concluded them on June 6, 2018, after nine separate sessions. The subcommittee heard testimony from representatives of the Department of Defense and the Intelligence Community.

SUMMARY OF THE BILL

The Committee recommendation of \$667,980,036,000 includes funding to develop, maintain, and equip the military forces of the United States and for other purposes.

The fiscal year 2019 budget request for activities funded in the Department of Defense appropriations bill totals \$668,409,933,000 in new budget authority, including \$68,078,580,000 in overseas contingency operations funding and \$514,000,000 in mandatory spending.

In fiscal year 2018, the Congress appropriated \$652,360,608,000 for activities funded in this bill. This amount includes \$582,274,519,000 in base appropriations and \$65,166,000,000 in overseas contingency operations appropriations provided in Public Law 115–141 and \$4,920,089,000 in emergency appropriations provided in Public Laws 115–96 and 115–123. The Committee recommends that funds requested for Coast Guard overseas contingency operations be appropriated directly to the Department of Homeland Security.

The Committee recommendation in this bill is \$15,619,428,000 above the amount provided in fiscal year 2018 and \$429,897,000 below the amount requested for fiscal year 2019.

COMMITTEE RECOMMENDATIONS

The following table displays the recommendations for each title:

[In thousands of dollars]

| | Fiscal year 2018 enacted | Fiscal year 2019 estimate | Committee recommendation |
|--|-----------------------------|------------------------------|-----------------------------|
| Title I—Military Personnel | 133,367,397 | 140,689,301 | 139,296,521 |
| Title II—Operation and Maintenance | 188,245,583 | 199,469,636 | 193,982,413 |
| Title III Procurement | 133,868,632 | 130,564,621 | 135,198,897 |
| Title IV—Research, development, test and evaluation | 88,308,133 | 91,056,950 | 95,131,819 |
| Title V—Revolving and management funds | 1,685,596 | 1,542,115 | 1,641,115 |
| Title VI—Other Department of Defense Programs | 36,646,600 | 35,839,806 | 36,331,606 |
| Title VII—Related Agencies | 1,051,600 | 1,053,124 | 1,043,624 |
| Title VIII—General provisions (net) | – 899,022 | 115,800 | – 2,559,935 |
| Title IX—Overseas Contingency Operations | 65,166,000 | 68,078,580 | 67,913,976 |
| Title X—Missile Defense and Defeat Enhancements (Public Law 115–96) | 4,485,844 | ..... | ..... |
| Other appropriations (Public Law 115–123) | 434,245 | ..... | ..... |
| Net grand total | 652,360,608 | 668,409,933 | 667,980,036 |
| Total discretionary (incl. scorekeeping adjustments) | 655,131,519 | 675,987,023 | 675,557,126 |

The Committee has displayed recommended adjustments in tables presented under each appropriation account.

These adjustments reflect the following Committee actions: elimination of funds requested for programs which are lower priority, duplicative, or not supported by firm requirements in out-year development or procurement appropriations; deletion of excess funds based on program delays or slow execution; addition of funds to reflect congressional priorities and to rectify shortfalls in the budget estimate; and implementation of recommendations in the National Defense Authorization Act for Fiscal Year 2019.

CLASSIFIED PROGRAM ADJUSTMENTS

The Committee recommends adjustments to certain classified programs, as explained in the classified annex to the Committee's report.

BUDGET JUSTIFICATION MATERIALS FOR SPECIAL ACCESS PROGRAMS

The Committee recommends adjustments to the budget justification materials provided in the Special Access Program Annual Report to Congress submitted in accordance with Title 10, United States Code, Section 119(a)(1), as explained in the classified annex to the Committee's report. It is expected that these adjustments will be incorporated in future budget submissions.

DEFINITION OF PROGRAM, PROJECT AND ACTIVITY

For the purposes of the Balanced Budget and Emergency Deficit Control Act of 1985 (Public Law 99–177), as amended by the Balanced Budget and Emergency Deficit Control Reaffirmation Act of 1987 (Public Law 100–119), and by the Budget Enforcement Act of 1990 (Public Law 101–508), the terms “program, project, and activity” for appropriations contained in this act shall be defined as the most specific level of budget items identified in the Department of Defense Appropriations Act, 2019, the related classified annexes and Committee reports, and P–1 and R–1 budget justification documents as subsequently modified by congressional action.

The following exception to the above definition shall apply: the military personnel and the operation and maintenance accounts, for which the term “program, project, and activity” is defined as the appropriations accounts contained in the Department of Defense Appropriations Act.

At the time the President submits the budget request for fiscal year 2020, the Secretary of Defense is directed to transmit to the congressional defense committees budget justification documents to be known as the “M–1” and “O–1” which shall identify, at the budget activity, activity group, and sub-activity group level, the amounts requested by the President to be appropriated to the Department of Defense for military personnel and operation and maintenance in any budget request, or amended budget request, for fiscal year 2020.

REPROGRAMMING GUIDANCE

The Secretary of Defense is directed to continue to follow the reprogramming guidance for acquisition accounts as specified in the report accompanying the House version of the Department of Defense appropriations bill for fiscal year 2008 (House Report 110–279). The dollar threshold for reprogramming funds shall remain at \$20,000,000 for military personnel; \$20,000,000 for operation and maintenance; \$20,000,000 for procurement; and \$10,000,000 for research, development, test and evaluation.

Also, the Under Secretary of Defense (Comptroller) is directed to continue to provide the congressional defense committees annual DD Form 1416 reports for titles I and II and quarterly, spreadsheet-based DD Form 1416 reports for service and defense-wide accounts in titles III and IV of this act. Reports for titles III and IV shall comply with guidance specified in the explanatory statement accompanying the Department of Defense Appropriations Act for Fiscal Year 2006. The Department shall continue to follow the limitation that prior approval reprogrammings are set at either the specified dollar threshold or 20 percent of the procurement or research, development, test and evaluation line, whichever is less. These thresholds are cumulative from the base for reprogramming value as modified by any adjustments. Therefore, if the combined value of transfers into or out of a military personnel (M–1), an operation and maintenance (O–1), a procurement (P–1), or a research, development, test and evaluation (R–1) line exceeds the identified threshold, the Secretary of Defense must submit a prior approval reprogramming to the congressional defense committees. In addition, guidelines on the application of prior approval reprogramming procedures for congressional special interest items are established elsewhere in this report.

FUNDING INCREASES

The funding increases outlined in the tables for each appropriation account shall be provided only for the specific purposes indicated in the tables.

CONGRESSIONAL SPECIAL INTEREST ITEMS

Items for which additional funds have been recommended or items for which funding is specifically reduced as shown in the tables detailing Committee recommended adjustments or in paragraphs using the phrase “only for” or “only to” are congressional special interest items for the purpose of the Base for Reprogramming [DD Form 1414]. Each of these items must be carried on the DD Form 1414 at the stated amount, as specifically addressed in elsewhere in this report.

COMMITTEE INITIATIVES

The Committee has included funding above the fiscal year 2019 President’s budget request for several programmatic initiatives in support of the 2018 National Defense Strategy [NDS]. While the NDS recognizes the persistent nature of terrorist threats and the need to counter those threats, it also represents a significant shift toward long-term, strategic competition and operations in contested domains. Additionally, rapid technological advancement and the commercial availability of increasingly sophisticated capabilities presents challenges to the U.S. military advantage against state and non-state actors alike. In order to maintain overmatch against adversaries across the domain spectrum, the Committee recommends additional investment in the following areas: basic research, hypersonics, directed energy, artificial intelligence, microelectronics, missile defense, cybersecurity, and complimentary aspects including test and evaluation infrastructure.

The Committee expects that the Department will sustain and support continued investments in these areas in the fiscal year 2020 President’s budget request. Additionally, the Committee directs the Secretary of Defense to provide a spend plan for execution of the additional fiscal year 2019 resources provided for committee initiatives not later than 60 days following enactment of this act.

Finally, the Committee directs that funds for these initiatives are to be competitively awarded or provided to programs that have received competitive awards in the past.

MISSILE DEFENSE AGENCY

The fiscal year 2019 President’s budget request for the Missile Defense Agency [MDA] includes \$9,915,304,000 in the Operation and Maintenance, Defense-Wide; Procurement-Defense-Wide; Research, Development, Test and Evaluation, Defense-Wide and Military Construction appropriation accounts, a \$1,605,748,000 decrease from amounts appropriated for the MDA in fiscal year 2018 in the Department of Defense Missile Defeat and Defense Enhancements Appropriations Act, 2018 (Public Law 115–96) and in the Department of Defense Appropriations Act, 2018 (Public Law 115–141).

Addressing Future Threats.—Subsequent to submission of the fiscal year 2019 President’s budget request, the Director, MDA provided the congressional defense committees a list of unfunded requirements for MDA in fiscal year 2019. Noting that rapid technological progress has increased threat complexity, to include advanced capabilities being developed by rogue nations and emerging

threats such as hypersonic glide vehicles, the Committee recommends an increase of \$1,198,648,000 for MDA.

MDA's objective is to increase missile defense capability against advanced, complex threats by integrating multi-domain systems into its battle management control system while maximizing cost-effectiveness. Therefore, the Committee recommends increases to support programs that further that objective. Specifically, the Committee recommends \$100,500,000 above the budget request to initiate a Missile Defense Tracking System [MTS], which the Director, MDA identified to the Committee as MDA's top unfunded priority. The Committee understands that a MTS operational prototype would provide a responsive, flexible capability from space to detect and track both conventional ballistic missiles and emerging threats, such as hypersonic glide vehicles. The Committee further notes that funds appropriated for MTS in fiscal year 2018 are being utilized to support MTS concept designs, but MDA has not budgeted for a MTS acquisition program. Therefore, the Committee directs the Director, MDA, as the Ballistic Missile Defense Acquisition Executive, to provide the congressional defense committees a MTS acquisition strategy and MDA's associated cost estimate with the fiscal year 2020 President's budget request. The MTS acquisition strategy shall include the MTS requirement, contracting approach, test plan, and identification of programmatic and technical risk.

The MDA Comptroller/Chief Financial Officer is directed to certify full funding of the acquisition strategy in the fiscal year 2020 President's budget request, and the Director, Cost Assessment and Program Evaluation [CAPE], is directed to provide an Independent Cost Estimate [ICE] for MTS to the congressional defense committees with the fiscal year 2020 President's budget request. The Committee also recommends \$46,100,000 above the budget request to accelerate the development of critical interceptor technology in the areas of propulsion, materials and lethality to address hypersonic threats.

Additionally, the Committee notes that a boost phase kill ability could provide increased missile defense capability and that directed energy is a key technology required to ensure a boost phase kill ability. Therefore, the Committee recommends \$85,000,000 above the budget request to continue research and development of three separate laser scaling efforts with the goal of demonstrating a 500 kilowatt laser by 2021, and a best of breed of 1 megawatt laser capability by 2023. The Director, MDA, as the Ballistic Missile Defense Acquisition Executive, is directed to provide an acquisition strategy for a boost phase missile defense capability and the associated MDA cost estimate with the fiscal year 2020 President's budget request. The acquisition strategy shall include the requirement, contracting approach, test plan, and identification of programmatic and technical risk.

The MDA Comptroller/Chief Financial Officer is directed to certify full funding of the acquisition strategy in the fiscal year 2020 President's budget request, and the Director, CAPE is directed to provide an ICE for a boost phase missile defense capability to the congressional defense committees with the fiscal year 2020 President's budget. The Committee notes that consistent with MDA's Di-

rected Energy Roadmap, as submitted to the Committee with the fiscal year 2019 President's budget request, the Laser Scaling program is separate and distinct from MDA's Low Power Laser Demonstrator program [LPLD]. The Committee further notes that MDA has awarded three design contracts for LPLD and plans to downselect to one performer in late 2018 following a Preliminary Design Review. The Committee finds this approach to be technically risky. Therefore, consistent with the Department of Defense Appropriations Act, 2018, the Committee recommends an additional \$78,000,000, which is the amount identified by MDA as required for LPLD to retain three performers through Critical Design Review in late 2019, thereby reducing risk for a LPLD demonstration in fiscal year 2023.

The Committee recommends several additional increases for the Missile Defense Agency, including \$100,000,000 above the budget request to advance MDA's compliance with the Department of Defense Cybersecurity Discipline Implementation Plan to protect MDA systems in highly-contested cybersecurity threat environments; \$126,000,000 above the budget request to provide improved discrimination capabilities and high-fidelity digital modeling and simulation to counter emergent threats to the homeland, forward deployed forces and allies; \$93,500,000 to accelerate the integration of mobile sensors; and \$102,367,000 for MDA's test enterprise, including funds to replace obsolete airborne sensors.

Aegis Ashore Poland.—The Committee understands that completion of the Aegis Ashore site in Poland will slip by at least 1 year, delaying installation of the weapon system and transition of the capability to U.S. European Command. The Committee is concerned with this delay and recommends an additional \$20,000,000 to continue combat system and combat structure adaptation, integration, installation, and testing. The Committee directs the Director, MDA, to submit to the congressional defense committees, with the fiscal year 2020 President's budget request, an updated program baseline for Aegis Ashore Poland, to include revised cost estimates. The Director, CAPE, is directed to provide, with the fiscal year 2020 President's budget request, an Independent Cost Estimate for Aegis Ashore Poland.

MDA Acquisition Workforce and Contracts.—The Committee notes that MDA has utilized the Department of Defense Acquisition Workforce Development Fund [DAWDF] in support of hiring and developing entry level employees in critical career fields as part of its workforce pipeline strategy since 2009. The Director, MDA is directed to provide to the congressional defense committees, not later than with submission of the fiscal year 2020 President's budget request, a historical application of DAWDF funding by MDA, as well as identify additional requirements for MDA's acquisition workforce due to increased acquisition workload.

Additionally, the Committee is concerned with MDA's increasing reliance on Undefinitized Contract Actions [UCAs]. The Committee notes that UCAs are contract actions for which the contract terms, specifications, or price are not agreed upon before contractor performance commences, and that UCAs should be used only when a requirement needs to be met quickly and there is insufficient time to use normal contracting vehicles. However, the Committee notes

that the MDA continues to utilize UCAs for recurring annual contracts, and that MDA struggles to definitize UCAs within the definitization schedule set forth in the Defense Federal Acquisition Regulation Supplement [DFARS]. Therefore, the Committee directs the MDA Director of Contracts to provide the congressional defense committees, not later than with submission of the fiscal year 2020 President's budget request, a briefing on contract types used by MDA by program, to include historic application of UCAs and rationale for each UCA (such as the untimely receipt of proposals, acquisition workforce shortfalls, schedule pressures and emerging requirements), definitization schedules, final negotiated contract values compared to initial estimates, and contract strategies for acquisition programs going forward.

Finally, the Committee notes that information previously requested by the Committee regarding several acquisition programs has not yet been provided. Therefore, the Committee directs that not more than \$15,000,000 may be obligated for MDA Management Headquarters in fiscal year 2019 until the information requested is provided.

ARMY CROSS FUNCTIONAL TEAMS

In October 2017, the Army announced its intent to establish a new Army Futures Command, which is intended to synchronize efforts among the other Army Commands through Cross-Functional Teams [CFT] to advance the Army's six modernization priorities: long-range precision fires, air and missile defense, next generation combat vehicle, future vertical lift, network modernization, and soldier lethality. These eight CFTs will report directly to the Under Secretary and Vice Chief of Staff of the Army and work to compress the modernization and procurement timelines by involving the end user, defining requirements, integrating, prototyping, and validating a concept prior to low-rate initial production.

While the Committee is supportive of these prioritization efforts by the Army in accordance with the April 2018 Army Modernization Strategy, it is concerned with the timeliness and adequacy of the budget justification materials presented to the Committee. The Committee is still awaiting an above threshold reprogramming request from the Department to realign fiscal year 2018 funding and received a request from the Army to realign science and technology funding and support additional fiscal year 2019 funding for CFT priorities very late in the budget process.

The fiscal year 2019 President's budget request includes \$2,119,871,000 for Army CFT priorities within the Missile Procurement; Procurement of Ammunition; Other Procurement; and Research, Development, Test and Evaluation accounts, with the Army requesting an additional \$416,953,000 above the budget request. The Committee understands that the fiscal year 2019 President's budget request was developed before CFT plans, requirements, and acquisition strategies could be finalized and that several programs under CFT purview continue to work to complete these decision points. Given this fluctuation, the Committee recommends modest reductions to the programs within the CFT budget request while also providing an additional \$127,737,000 for CFT science and technology efforts in anticipation of the Army's need to realign

funding to resource future CFT efforts. In addition, the Committee recommends \$75,400,000 above the budget request for the Army's future vertical lift program to accelerate Capability Set One Future Attack Reconnaissance Aircraft development.

The Committee looks forward to a continuing dialogue with the Army's acquisition and CFT leadership in order to provide appropriate, executable resources for Army modernization priorities.

INDIRECT FIRE PROTECTION CAPABILITY

The fiscal year 2019 President's budget request includes advance procurement totaling \$173,204,000 for AIM-9X interceptors, Multi-Mission Launcher [MML] components, and ancillary costs. This is in addition to \$50,056,000 of fiscal year 2018 advance procurement funding that remains unexecuted. The request also includes \$208,740,000 for continued research, development, test and evaluation of the current Indirect Fire Protection Capability [IFPC] program of record.

The Committee notes that following submission of the fiscal year 2019 President's budget request, the Army initiated reviews of the existing IFPC program of record and alternative courses of action [COA] prior to the upcoming milestone B decision. These include the pursuit and integration of an alternate interceptor to the currently proposed AIM-9X interceptor and modifications to the MML, as well as the analysis of at least two other distinct weapons systems.

The Committee further notes that section 111 of S. 2987, the National Defense Authorization Act for Fiscal Year 2019, directs the Army to deploy two batteries of an interim, fixed site cruise missile defense capability by September 30, 2020, in anticipation of deployment of the Army's IFPC.

The Committee supports the Army's pursuit of this defensive capability, however, the Committee is concerned that the current budget request does not support any change in acquisition strategy or procurement of readily available interim defense capabilities. Therefore, the Secretary of the Army is directed to provide a report to the congressional defense committees, not later than 30 days following enactment of this act, which details the results of the Army's internal review, revised acquisition strategy, and resulting resourcing requirements. The report shall also include: (1) analysis and recommendations on the COAs under review; (2) the supporting cost estimates for each of the COAs across the Future Years Defense Program [FYDP]; (3) a program schedule for the selected COA; (4) an analysis and recommendations for interim capabilities and a proposed acquisition schedule; (5) the proposed execution of current IFPC resources by appropriation, budget line, and project across the FYDP; and (6) a plan to resource any identified shortfalls for the selected program of record COA and interim capabilities that will be pursued.

JOINT STRIKE FIGHTER

F-35 Production.—The fiscal year 2019 President's budget request includes 77 F-35 Joint Strike Fighters [JSF], 13 fewer than were provided in the Department of Defense Appropriations Act,

2018 (Public Law 115–141). The Committee is encouraged that the budget request reflects planned procurement increases in the F–35C carrier variant for the Navy but is concerned that the Air Force continues to delay its stated goal to procure 60 F–35A variants in a single fiscal year. As a result, the Committee recommends an additional \$120,000,000 in advance procurement for the F–35A in order to assist the Air Force in achieving full rate production quantities in fiscal year 2020. The Committee also recommends \$796,000,000 for eight additional F–35C aircraft for the Navy and Marine Corps and \$412,000,000 for four additional F–35B aircraft for the Marine Corps. The Committee understands the Under Secretary of Defense (Acquisition and Sustainment) is leading a comprehensive review of reducing the lifecycle costs of the F–35 program, including the near term unit flyaway costs. Further, the Committee understands that the recent production contract awards, including Lot 9 and 10, have consistently included lower unit flyaway costs than the budgeted amounts. Therefore, the Committee recommends unit cost reductions in fiscal year 2018 and 2019 that are consistent with the savings negotiated in recent production contracts and the Under Secretary of Defense’s (Acquisition and Sustainment) targets for future production contracts.

The Department of Defense Appropriations Act, 2018 (Public Law 115–141) supported the Department’s request for \$660,989,000 in advance procurement for economic order quantities of material and equipment for 207 U.S. F–35 aircraft to be procured in fiscal years 2019 and 2020. According to Joint Program Office [JPO] estimates, these funds provided in fiscal year 2018 would save approximately \$1,200,000,000 across U.S. and partner buys in fiscal years 2018 through 2020, with about half of this savings amount going toward U.S. aircraft buys. A recent analysis by the Director of the Cost Assessment and Program Evaluation [CAPE] concluded that anticipated U.S. savings from this approach would only be \$300,000,000, about half of the prior estimates provided by the JPO. While these savings are still significant, as certified by the Under Secretary of Defense (Acquisition and Sustainment), the Committee is dismayed by the inaccuracy of the initial JPO estimates. Therefore, the F–35 Program Executive Officer is directed to provide a report to the congressional defense committees not later than 30 days after enactment of this act on an updated cost savings estimate on the economic order quantities procurement approach; an execution update on the \$660,989,000 for advance procurement provided in the Department of Defense Appropriations Act, 2018 (Public Law 115–141); an analysis of the CAPE estimate of lesser savings, and a plan for how the unrealized savings will be resourced in fiscal years 2019 and 2020.

F–35 Continuous Capability Development and Delivery.—The fiscal year 2019 President’s budget request includes \$983,549,000 in research, development, test and evaluation for Continuous Capability Development and Delivery [C2D2], previously referred to as Follow-on Modernization, an increase of \$395,328,000 or 67 percent, over amounts enacted in fiscal year 2018. The Committee notes that the F–35 C2D2 acquisition strategy is evolving and that its approval has slipped by one year. Further, the previously requested Independent Cost Estimate, system engineering plans, test

and evaluation master plan and acquisition program baselines for F-35 Follow-on Modernization elements have not yet been provided to Congress. Finally, the Committee notes that execution plans for fiscal year 2018 funding provided for F-35 Follow-on Modernization have changed. Therefore, the Committee recommends adjusting the fiscal year 2019 budget request for F-35 C2D2 to reflect actual fiscal year 2018 execution. In addition, the Under Secretary of Defense (Acquisition and Sustainment) and F-35 Program Executive Officer are directed to provide the F-35 C2D2 information previously requested in Senate Report 114-263, as soon as practicable.

ADVANCED BATTLE MANAGEMENT SYSTEM

The fiscal year 2019 President's budget request supports the Air Force's new approach to battle management, the Advanced Battle Management System [ABMS]. The Committee understands that the ABMS will be a decentralized network of platforms and sensors that will integrate battlefield surveillance information. The Committee is supportive of the Air Force's new approach given the changing threat environment and need for resilient and survivable networks against near peer competitors. However, the Committee is concerned with the near-term risks in cancelling the Joint Surveillance and Target Attack Radar System [JSTARS] recapitalization program and time required to operationalize these new capabilities. As a result, the Committee fully funds the budget request for ABMS and recommends an additional \$375,000,000 to address near-term risks, to include procurement funding for additional MQ-9 Reaper unmanned aerial vehicles and support of the battlefield airborne communications node mission; research, development, test and evaluation funding for radar and agile communications development; and operation and maintenance in the Air National Guard funding to continue to operate and sustain the legacy E-8 JSTARS fleet. Further, the Committee directs the Secretary of the Air Force to submit a report to the congressional defense committees not later than 90 days after enactment of this act on a revised ABMS plan and execution strategy, updated costs and schedules of each activity within the ABMS plan, and a gap and threat assessment of both the ground moving target indicator and battle management command and control mission areas.

CIVILIAN PAY INCREASE

Section 749 of the Senate version of the Financial Services and General Government Appropriations bill (S. 3107), as reported on June 21, 2018, included a pay increase for civilian Federal employees of 1.9 percent in calendar year 2019. The Committee supports this government-wide provision and is evaluating the impact to the Department of Defense. In order to inform this assessment, the Committee directs the Secretary of Defense to provide the estimated cost of a 1.9 percent pay increase for calendar year 2019 by appropriation account to the House and Senate Appropriations Committees not later than July 31, 2018.

TITLE I
MILITARY PERSONNEL

Funds appropriated under this title provide the resources required for basic pay, retired pay accrual, employers' contribution for Social Security taxes, basic allowance for subsistence, basic allowance for housing, special and incentive pays, permanent change of station travel, and other personnel costs for uniformed members of the Armed Forces.

The President's fiscal year 2019 budget requests a total of \$140,689,301,000 for military personnel appropriations. This request funds an Active component end strength of 1,338,100 and a Reserve component end strength of 817,700.

SUMMARY OF COMMITTEE ACTION

The Committee recommends military personnel appropriations totaling \$139,296,521,000 for fiscal year 2019. This is \$1,392,780,000 below the budget estimate.

Committee recommended military personnel appropriations for fiscal year 2019 are summarized below:

SUMMARY OF MILITARY PERSONNEL APPROPRIATIONS

[In thousands of dollars]

| Account | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|---|----------------------|--------------------------|-----------------------------|
| Military Personnel: | | | |
| Military Personnel, Army | 43,670,542 | 43,060,042 | - 610,500 |
| Military Personnel, Navy | 30,426,211 | 30,305,481 | - 120,730 |
| Military Personnel, Marine Corps | 13,890,968 | 13,799,038 | - 91,930 |
| Military Personnel, Air Force | 30,526,011 | 30,173,691 | - 352,320 |
| Reserve Personnel: | | | |
| Reserve Personnel, Army | 4,955,947 | 4,870,947 | - 85,000 |
| Reserve Personnel, Navy | 2,067,521 | 2,059,521 | - 8,000 |
| Reserve Personnel, Marine Corps | 788,090 | 787,090 | - 1,000 |
| Reserve Personnel, Air Force | 1,894,286 | 1,871,286 | - 23,000 |
| National Guard Personnel: | | | |
| National Guard Personnel, Army | 8,744,345 | 8,650,645 | - 93,700 |
| National Guard Personnel, Air Force | 3,725,380 | 3,718,780 | - 6,600 |
| Total | 140,689,301 | 139,296,521 | - 1,392,780 |

Committee recommended end strengths for fiscal year 2019 are summarized below:

RECOMMENDED END STRENGTH

| | 2018 authorization | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|----------------|--------------------|----------------------|--------------------------|-----------------------------|
| Active: | | | | |
| Army | 483,500 | 487,500 | 485,741 | - 1,759 |

RECOMMENDED END STRENGTH—Continued

| | 2018 authorization | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|----------------------------|-----------------------|-------------------------|-----------------------------|--------------------------------|
| Navy | 327,900 | 335,400 | 331,900 | - 3,500 |
| Marine Corps | 186,000 | 186,100 | 186,100 | ..... |
| Air Force | 325,100 | 329,100 | 325,720 | - 3,380 |
| Subtotal | 1,322,500 | 1,338,100 | 1,329,461 | - 8,639 |
| Selected Reserve: | | | | |
| Army Reserve | 199,500 | 199,500 | 199,500 | ..... |
| Navy Reserve | 59,000 | 59,100 | 59,000 | - 100 |
| Marine Corps Reserve | 38,500 | 38,500 | 38,500 | ..... |
| Air Force Reserve | 69,800 | 70,000 | 69,800 | - 200 |
| Army National Guard | 343,500 | 343,500 | 343,500 | ..... |
| Air National Guard | 106,600 | 107,100 | 106,600 | - 500 |
| Subtotal | 816,900 | 817,700 | 816,900 | - 800 |
| Total | 2,139,400 | 2,155,800 | 2,146,361 | - 9,439 |

Committee recommended end strengths for full-time support of the Reserve and Guard for fiscal year 2019 are summarized below:

RECOMMENDED ACTIVE GUARD AND RESERVE END STRENGTH

| | 2018 authorization | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|----------------------------|-----------------------|-------------------------|-----------------------------|--------------------------------|
| Active Guard and Reserve: | | | | |
| Army Reserve | 16,261 | 16,386 | 16,261 | - 125 |
| Navy Reserve | 10,101 | 10,110 | 10,101 | - 9 |
| Marine Corps Reserve | 2,261 | 2,261 | 2,261 | ..... |
| Air Force Reserve | 3,588 | 3,849 | 3,588 | - 261 |
| Army National Guard | 30,155 | 30,595 | 30,155 | - 440 |
| Air National Guard | 16,260 | 19,861 | 19,450 | - 411 |
| Total | 78,626 | 83,062 | 81,816 | - 1,246 |

REPROGRAMMING GUIDANCE FOR MILITARY PERSONNEL ACCOUNTS

The Committee directs the Secretary of Defense to submit the Base for Reprogramming (DD Form 1414) for each of the fiscal year 2019 appropriation accounts not later than 60 days after the enactment of this act. The Secretary of Defense is prohibited from executing any reprogramming or transfer of funds for any purpose other than originally appropriated until the aforementioned report is submitted to the House and Senate Appropriations Committees. The Committee directs the Secretary of Defense to use the normal prior approval reprogramming procedures to transfer funds in the services' military personnel accounts between budget activities in excess of \$20,000,000.

MILITARY PERSONNEL SPECIAL INTEREST ITEMS

Items for which additional funds have been provided or have been specifically reduced as shown in the project level tables or in paragraphs using the phrase "only for" or "only to" in this report are congressional special interest items for the purpose of the Base for Reprogramming (DD Form 1414). Each of these items must be carried on the DD Form 1414 at the stated amount as specifically addressed in the Committee report. Below Threshold

Reprogrammings may not be used to either restore or reduce funding from congressional special interest items as identified on the DD Form 1414.

MILITARY PERSONNEL OVERVIEW

Reserve Component Budget Reporting.—The Committee continues its requirement for the Department to provide a semi-annual detailed report to the congressional defense committees showing transfers between subactivities within the military personnel appropriation. Reports shall be submitted not later than 30 days following the end of the second quarter and 30 days following the end of the fiscal year.

Advanced Trauma Training Program for National Guard and Reserve.—The Committee recognizes the valuable support universities, hospitals, and other military partners provide by offering civilian-based emergency response trauma training and critical care training including public health, bio-environmental, and biomedical instruction to sustain medics' and medical providers' capabilities of the National Guard Enhanced Response Forces Packages [CERFP], National Guard Homeland Response Forces [NGHRF], the Army Reserve Consequence Management Response Forces [CCMRF] and other National Guard and Reserves medical conversion/readiness requirements. The Committee encourages the National Guard and Reserves to continue pursuing state-of-the-art trauma training with these civilian partners, thus maintaining unit medical readiness postures at optimum levels as military healthcare providers in CERFPs, NGHRFs, and CCMRFs maintain their individual skills to respond effectively to emergency incidents on the homeland. Furthermore, in order to minimize the civilian-military operational gaps in the event of a catastrophic incident, the Committee also encourages the development of enhanced medical and critical care preparedness medical training programs focusing on public health curriculums and the epidemiology of public health diseases, mass casualty triage, advanced disaster life support, advanced hazardous material life support, emergency dental, and psychological health by increasing civilian-based advanced trauma expertise gained through day-to-day experiences and medical research programs.

Army Stationing Procedures.—The Committee is concerned with the lack of transparency in Army stationing decisions. Therefore, the Committee directs the Secretary of the Army to submit a report to the congressional defense committees not later than 90 days after enactment of this act, on the procedures for Army stationing related to changes in force structure. The report shall discuss how the Department of the Army is incorporating factors related to the quality of life for soldiers and families pursuant to guidance distributed by the Service Secretaries on February 23, 2018.

Report on Guard and Reserve Benefits and Compensation.—The Committee recognizes that additional active duty service requirements are being asked of currently serving members of the National Guard and Reserve in order to enhance the readiness of the force. The Committee directs the Secretary of Defense to submit a report to the congressional defense committees not later than 90 days after the enactment of this act that includes proposals for compensation, allowances, and benefits for members of the reserve

components who perform additional periods of active duty service for non-contingency operations that exceed the standard duty obligations required of service in a reserve component. These proposals should provide for compensation, allowances, and benefits commensurate with the additional duties assigned.

MILITARY PERSONNEL, ARMY

| | |
|--------------------------------|------------------|
| Appropriations, 2018 | \$41,628,855,000 |
| Budget estimate, 2019 | 43,670,542,000 |
| Committee recommendation | 43,060,042,000 |

The Committee recommends an appropriation of \$43,060,042,000. This is \$610,500,000 below the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table summarizes the budget estimate for this appropriation, the Committee recommendation, and the Committee recommended adjustments to the budget estimate:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|--|----------------------|--------------------------|-----------------------------|
| | MILITARY PERSONNEL, ARMY | | | |
| | ACTIVITY 1: PAY AND ALLOWANCES OF OFFICERS | | | |
| 5 | BASIC PAY | 7,224,373 | 7,224,373 | ..... |
| 10 | RETIRED PAY ACCRUAL | 2,192,145 | 2,192,145 | ..... |
| 11 | THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS | 132,476 | 132,476 | ..... |
| 25 | BASIC ALLOWANCE FOR HOUSING | 2,165,218 | 2,165,218 | ..... |
| 30 | BASIC ALLOWANCE FOR SUBSISTENCE | 287,464 | 287,464 | ..... |
| 35 | INCENTIVE PAYS | 66,719 | 66,719 | ..... |
| 40 | SPECIAL PAYS | 440,782 | 440,782 | ..... |
| 45 | ALLOWANCES | 191,420 | 191,420 | ..... |
| 50 | SEPARATION PAY | 99,315 | 99,315 | ..... |
| 55 | SOCIAL SECURITY TAX | 550,784 | 550,784 | ..... |
| | TOTAL, BUDGET ACTIVITY 1 | 13,350,696 | 13,350,696 | ..... |
| | ACTIVITY 2: PAY AND ALLOWANCES OF ENLISTED PERSONNEL | | | |
| 60 | BASIC PAY | 13,825,095 | 13,825,095 | ..... |
| 65 | RETIRED PAY ACCRUAL | 4,197,573 | 4,197,573 | ..... |
| 66 | THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS | 243,633 | 243,633 | ..... |
| 80 | BASIC ALLOWANCE FOR HOUSING | 4,782,445 | 4,782,445 | ..... |
| 85 | INCENTIVE PAYS | 92,004 | 92,004 | ..... |
| 90 | SPECIAL PAYS | 1,195,271 | 1,195,271 | ..... |
| 95 | ALLOWANCES | 763,048 | 763,048 | ..... |
| 100 | SEPARATION PAY | 390,174 | 390,174 | ..... |
| 105 | SOCIAL SECURITY TAX | 1,057,618 | 1,057,618 | ..... |
| | TOTAL, BUDGET ACTIVITY 2 | 26,546,861 | 26,546,861 | ..... |
| | ACTIVITY 3: PAY AND ALLOWANCES OF CADETS | | | |
| 110 | ACADEMY CADETS | 86,510 | 86,510 | ..... |
| | ACTIVITY 4: SUBSISTENCE OF ENLISTED PERSONNEL | | | |
| 115 | BASIC ALLOWANCE FOR SUBSISTENCE | 1,264,097 | 1,264,097 | ..... |
| 120 | SUBSISTENCE-IN-KIND | 636,029 | 636,029 | ..... |
| 121 | FAMILY SUBSISTENCE SUPPLEMENTAL ALLOWANCE | 83 | 83 | ..... |
| | TOTAL, BUDGET ACTIVITY 4 | 1,900,209 | 1,900,209 | ..... |
| | ACTIVITY 5: PERMANENT CHANGE OF STATION | | | |
| 125 | ACCESSION TRAVEL | 173,692 | 173,692 | ..... |
| 130 | TRAINING TRAVEL | 158,716 | 158,716 | ..... |
| 135 | OPERATIONAL TRAVEL | 375,936 | 375,936 | ..... |
| 140 | ROTATIONAL TRAVEL | 778,697 | 778,697 | ..... |

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|--|----------------------|--------------------------|-----------------------------|
| 145 | SEPARATION TRAVEL | 251,324 | 251,324 | ..... |
| 150 | TRAVEL OF ORGANIZED UNITS | 4,939 | 4,939 | ..... |
| 155 | NON-TEMPORARY STORAGE | 3,517 | 3,517 | ..... |
| 160 | TEMPORARY LODGING EXPENSE | 37,723 | 37,723 | ..... |
| | TOTAL, BUDGET ACTIVITY 5 | 1,784,544 | 1,784,544 | ..... |
| | ACTIVITY 6: OTHER MILITARY PERSONNEL COSTS | | | |
| 170 | APPREHENSION OF MILITARY DESERTERS | 263 | 263 | ..... |
| 175 | INTEREST ON UNIFORMED SERVICES SAVINGS | 849 | 849 | ..... |
| 180 | DEATH GRATUITIES | 41,400 | 41,400 | ..... |
| 185 | UNEMPLOYMENT BENEFITS | 109,662 | 109,662 | ..... |
| 195 | EDUCATION BENEFITS | 980 | 980 | ..... |
| 200 | ADOPTION EXPENSES | 533 | 533 | ..... |
| 210 | TRANSPORTATION SUBSIDY | 10,041 | 10,041 | ..... |
| 215 | PARTIAL DISLOCATION ALLOWANCE | 59 | 59 | ..... |
| 217 | RESERVE OFFICERS TRAINING CORPS (ROTC) | 102,501 | 106,501 | + 4,000 |
| 218 | JUNIOR ROTC | 28,228 | 28,728 | + 500 |
| | TOTAL, BUDGET ACTIVITY 6 | 294,516 | 299,016 | + 4,500 |
| | LESS REIMBURSABLES | - 292,794 | - 292,794 | ..... |
| | UNDISTRIBUTED ADJUSTMENT ..... | ..... | - 615,000 | - 615,000 |
| | TOTAL, ACTIVE FORCES, ARMY | 43,670,542 | 43,060,042 | - 610,500 |
| | TOTAL, MILITARY PERSONNEL, ARMY | 43,670,542 | 43,060,042 | - 610,500 |

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|--------|---|----------------------|--------------------------|-----------------------------|
| 217 | Reserve Officers Training Corps (ROTC) | 102,501 | 106,501 | + 4,000 |
| | Program increase: ROTC helicopter training program ..... | ..... | ..... | + 4,000 |
| 218 | Junior ROTC | 28,228 | 28,728 | + 500 |
| | Program increase ..... | ..... | ..... | + 500 |
| UNDIST | Improving funds management: Revised budget estimate ..... | ..... | - 575,000 | - 575,000 |
| UNDIST | Improving funds management: Rate adjustments ..... | ..... | - 40,000 | - 40,000 |

MILITARY PERSONNEL, NAVY

Appropriations, 2018 \$28,772,118,000
 Budget estimate, 2019 30,426,211,000
 Committee recommendation 30,305,481,000

The Committee recommends an appropriation of \$30,305,481,000. This is \$120,730,000 below the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table summarizes the budget estimate for this appropriation, the Committee recommendation, and the Committee recommended adjustments to the budget estimate:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|--|----------------------|--------------------------|-----------------------------|
| | MILITARY PERSONNEL, NAVY | | | |
| | ACTIVITY 1: PAY AND ALLOWANCES OF OFFICERS | | | |
| 5 | BASIC PAY | 4,382,346 | 4,382,346 | ..... |
| 10 | RETIRED PAY ACCRUAL | 1,331,184 | 1,331,184 | ..... |
| 11 | THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS | 83,235 | 83,235 | ..... |
| 25 | BASIC ALLOWANCE FOR HOUSING | 1,531,259 | 1,531,259 | ..... |
| 30 | BASIC ALLOWANCE FOR SUBSISTENCE | 172,777 | 172,777 | ..... |
| 35 | INCENTIVE PAYS | 159,053 | 159,053 | ..... |
| 40 | SPECIAL PAYS | 460,487 | 460,487 | ..... |
| 45 | ALLOWANCES | 120,780 | 120,780 | ..... |
| 50 | SEPARATION PAY | 41,489 | 41,489 | ..... |
| 55 | SOCIAL SECURITY TAX | 334,535 | 334,535 | ..... |
| | TOTAL, BUDGET ACTIVITY 1 | 8,617,145 | 8,617,145 | ..... |
| | ACTIVITY 2: PAY AND ALLOWANCES OF ENLISTED PERSONNEL | | | |
| 60 | BASIC PAY | 9,647,068 | 9,647,068 | ..... |
| 65 | RETIRED PAY ACCRUAL | 2,933,110 | 2,933,110 | ..... |
| 66 | THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS | 182,026 | 182,026 | ..... |
| 80 | BASIC ALLOWANCE FOR HOUSING | 4,480,750 | 4,480,750 | ..... |
| 85 | INCENTIVE PAYS | 103,984 | 103,984 | ..... |
| 90 | SPECIAL PAYS | 938,584 | 938,584 | ..... |
| 95 | ALLOWANCES | 636,255 | 636,255 | ..... |
| 100 | SEPARATION PAY | 117,648 | 117,648 | ..... |
| 105 | SOCIAL SECURITY TAX | 738,001 | 738,001 | ..... |
| | TOTAL, BUDGET ACTIVITY 2 | 19,777,426 | 19,777,426 | ..... |
| | ACTIVITY 3: PAY AND ALLOWANCES OF MIDSHIPMEN | | | |
| 110 | MIDSHIPMEN | 83,875 | 83,875 | ..... |
| | ACTIVITY 4: SUBSISTENCE OF ENLISTED PERSONNEL | | | |
| 115 | BASIC ALLOWANCE FOR SUBSISTENCE | 821,434 | 821,434 | ..... |
| 120 | SUBSISTENCE-IN-KIND | 418,478 | 418,478 | ..... |
| 121 | FAMILY SUBSISTENCE SUPPLEMENTAL ALLOWANCE | 5 | 5 | ..... |
| | TOTAL, BUDGET ACTIVITY 4 | 1,239,917 | 1,239,917 | ..... |
| | ACTIVITY 5: PERMANENT CHANGE OF STATION | | | |
| 125 | ACCESSION TRAVEL | 98,373 | 98,373 | ..... |
| 130 | TRAINING TRAVEL | 89,865 | 89,865 | ..... |
| 135 | OPERATIONAL TRAVEL | 227,416 | 227,416 | ..... |
| 140 | ROTATIONAL TRAVEL | 356,813 | 356,813 | ..... |
| 145 | SEPARATION TRAVEL | 109,210 | 109,210 | ..... |
| 150 | TRAVEL OF ORGANIZED UNITS | 30,763 | 30,763 | ..... |
| 155 | NON-TEMPORARY STORAGE | 13,156 | 13,156 | ..... |
| 160 | TEMPORARY LODGING EXPENSE | 15,753 | 15,753 | ..... |
| | TOTAL, BUDGET ACTIVITY 5 | 941,349 | 941,349 | ..... |
| | ACTIVITY 6: OTHER MILITARY PERSONNEL COSTS | | | |
| 170 | APPREHENSION OF MILITARY DESERTERS | 35 | 35 | ..... |
| 175 | INTEREST ON UNIFORMED SERVICES SAVINGS | 1,220 | 1,220 | ..... |
| 180 | DEATH GRATUITIES | 21,300 | 21,300 | ..... |
| 185 | UNEMPLOYMENT BENEFITS | 58,148 | 58,148 | ..... |
| 195 | EDUCATION BENEFITS | 12,065 | 12,065 | ..... |
| 200 | ADOPTION EXPENSES | 173 | 173 | ..... |
| 210 | TRANSPORTATION SUBSIDY | 4,162 | 4,162 | ..... |
| 215 | PARTIAL DISLOCATION ALLOWANCE | 34 | 34 | ..... |
| 217 | RESERVE OFFICERS TRAINING CORPS (ROTC) | 21,032 | 21,032 | ..... |
| 218 | JUNIOR ROTC | 14,961 | 15,231 | + 270 |
| | TOTAL, BUDGET ACTIVITY 6 | 133,130 | 133,400 | + 270 |
| | LESS REIMBURSABLES | - 366,631 | - 366,631 | ..... |

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|---------------------------------------|----------------------|--------------------------|-----------------------------|
| | UNDISTRIBUTED ADJUSTMENT ..... | ..... | - 121,000 | - 121,000 |
| | TOTAL, ACTIVE FORCES, NAVY | 30,426,211 | 30,305,481 | - 120,730 |
| | TOTAL, MILITARY PERSONNEL, NAVY | 30,426,211 | 30,305,481 | - 120,730 |

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|--------|---|----------------------|--------------------------|-----------------------------|
| 218 | Junior ROTC | 14,961 | 15,231 | + 270 |
| | Program increase ..... | ..... | ..... | + 270 |
| UNDIST | Improving funds management: Rate adjustments ..... | ..... | - 26,000 | - 26,000 |
| UNDIST | Improving funds management: Revised budget estimate ..... | ..... | - 95,000 | - 95,000 |

MILITARY PERSONNEL, MARINE CORPS

Appropriations, 2018 \$13,231,114,000
 Budget estimate, 2019 13,890,968,000
 Committee recommendation 13,799,038,000

The Committee recommends an appropriation of \$13,799,038,000. This is \$91,930,000 below the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table summarizes the budget estimate for this appropriation, the Committee recommendation, and the Committee recommended adjustments to the budget estimate:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|--|----------------------|--------------------------|-----------------------------|
| | MILITARY PERSONNEL, MARINE CORPS | | | |
| | ACTIVITY 1: PAY AND ALLOWANCES OF OFFICERS | | | |
| 5 | BASIC PAY | 1,641,181 | 1,641,181 | ..... |
| 10 | RETIRED PAY ACCRUAL | 498,204 | 498,204 | ..... |
| 11 | THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS | 31,369 | 31,369 | ..... |
| 25 | BASIC ALLOWANCE FOR HOUSING | 546,247 | 546,247 | ..... |
| 30 | BASIC ALLOWANCE FOR SUBSISTENCE | 67,428 | 67,428 | ..... |
| 35 | INCENTIVE PAYS | 46,034 | 46,034 | ..... |
| 40 | SPECIAL PAYS | 3,891 | 3,891 | ..... |
| 45 | ALLOWANCES | 46,208 | 46,208 | ..... |
| 50 | SEPARATION PAY | 17,019 | 17,019 | ..... |
| 55 | SOCIAL SECURITY TAX | 125,091 | 125,091 | ..... |
| | TOTAL, BUDGET ACTIVITY 1 | 3,022,672 | 3,022,672 | ..... |
| | ACTIVITY 2: PAY AND ALLOWANCES OF ENLISTED PERSONNEL | | | |
| 60 | BASIC PAY | 5,196,233 | 5,196,233 | ..... |
| 65 | RETIRED PAY ACCRUAL | 1,574,705 | 1,574,705 | ..... |
| 66 | THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS | 97,777 | 97,777 | ..... |
| 80 | BASIC ALLOWANCE FOR HOUSING | 1,658,129 | 1,658,129 | ..... |
| 85 | INCENTIVE PAYS | 9,137 | 9,137 | ..... |
| 90 | SPECIAL PAYS | 198,171 | 198,171 | ..... |
| 95 | ALLOWANCES | 304,996 | 304,996 | ..... |

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|---|----------------------|--------------------------|-----------------------------|
| 100 | SEPARATION PAY | 97,425 | 97,425 | ..... |
| 105 | SOCIAL SECURITY TAX | 396,969 | 396,969 | ..... |
| | TOTAL, BUDGET ACTIVITY 2 | 9,533,542 | 9,533,542 | ..... |
| | ACTIVITY 4: SUBSISTENCE OF ENLISTED PERSONNEL | | | |
| 115 | BASIC ALLOWANCE FOR SUBSISTENCE | 444,111 | 444,111 | ..... |
| 120 | SUBSISTENCE-IN-KIND | 410,720 | 410,720 | ..... |
| 121 | FAMILY SUBSISTENCE SUPPLEMENTAL ALLOWANCE | 10 | 10 | ..... |
| | TOTAL, BUDGET ACTIVITY 4 | 854,841 | 854,841 | ..... |
| | ACTIVITY 5: PERMANENT CHANGE OF STATION | | | |
| 125 | ACCESSION TRAVEL | 48,992 | 48,992 | ..... |
| 130 | TRAINING TRAVEL | 16,506 | 16,506 | ..... |
| 135 | OPERATIONAL TRAVEL | 166,904 | 166,904 | ..... |
| 140 | ROTATIONAL TRAVEL | 110,869 | 110,869 | ..... |
| 145 | SEPARATION TRAVEL | 87,538 | 87,538 | ..... |
| 150 | TRAVEL OF ORGANIZED UNITS | 890 | 890 | ..... |
| 155 | NON-TEMPORARY STORAGE | 8,730 | 8,730 | ..... |
| 160 | TEMPORARY LODGING EXPENSE | 5,743 | 5,743 | ..... |
| 165 | OTHER | 2,140 | 2,140 | ..... |
| | TOTAL, BUDGET ACTIVITY 5 | 448,312 | 448,312 | ..... |
| | ACTIVITY 6: OTHER MILITARY PERSONNEL COSTS | | | |
| 170 | APPREHENSION OF MILITARY DESERTERS | 236 | 236 | ..... |
| 175 | INTEREST ON UNIFORMED SERVICES SAVINGS | 19 | 19 | ..... |
| 180 | DEATH GRATUITIES | 13,100 | 13,100 | ..... |
| 185 | UNEMPLOYMENT BENEFITS | 37,114 | 37,114 | ..... |
| 195 | EDUCATION BENEFITS | 4,661 | 4,661 | ..... |
| 200 | ADOPTION EXPENSES | 86 | 86 | ..... |
| 210 | TRANSPORTATION SUBSIDY | 1,448 | 1,448 | ..... |
| 215 | PARTIAL DISLOCATION ALLOWANCE | 103 | 103 | ..... |
| 218 | JUNIOR ROTC | 3,790 | 3,860 | + 70 |
| | TOTAL, BUDGET ACTIVITY 6 | 60,557 | 60,627 | + 70 |
| | LESS REIMBURSABLES | -28,956 | -28,956 | ..... |
| | UNDISTRIBUTED ADJUSTMENT ..... | ..... | -92,000 | -92,000 |
| | TOTAL, ACTIVE FORCES, MARINE CORPS | 13,890,968 | 13,799,038 | -91,930 |
| | TOTAL, MILITARY PERSONNEL, MARINE CORPS | 13,890,968 | 13,799,038 | -91,930 |

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|--------|---|----------------------|--------------------------|-----------------------------|
| 218 | Junior ROTC | 3,790 | 3,860 | + 70 |
| | Program increase ..... | ..... | ..... | + 70 |
| UNDIST | Improving funds management: Rate adjustments ..... | ..... | -17,000 | -17,000 |
| UNDIST | Improving funds management: Revised budget estimate ..... | ..... | -75,000 | -75,000 |

MILITARY PERSONNEL, AIR FORCE

| | |
|--------------------------------|------------------|
| Appropriations, 2018 | \$28,790,440,000 |
| Budget estimate, 2019 | 30,526,011,000 |
| Committee recommendation | 30,173,691,000 |

The Committee recommends an appropriation of \$30,173,691,000. This is \$352,320,000 below the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table summarizes the budget estimate for this appropriation, the Committee recommendation, and the Committee recommended adjustments to the budget estimate:

(In thousands of dollars)

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|--|----------------------|--------------------------|-----------------------------|
| | MILITARY PERSONNEL, AIR FORCE | | | |
| | ACTIVITY 1: PAY AND ALLOWANCES OF OFFICERS | | | |
| 5 | BASIC PAY | 5,208,253 | 5,208,253 | ..... |
| 10 | RETIRED PAY ACCRUAL | 1,571,933 | 1,571,933 | ..... |
| 11 | THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS | 97,630 | 97,630 | ..... |
| 25 | BASIC ALLOWANCE FOR HOUSING | 1,573,578 | 1,573,578 | ..... |
| 30 | BASIC ALLOWANCE FOR SUBSISTENCE | 202,971 | 202,971 | ..... |
| 35 | INCENTIVE PAYS | 284,437 | 284,437 | ..... |
| 40 | SPECIAL PAYS | 368,153 | 368,153 | ..... |
| 45 | ALLOWANCES | 120,547 | 120,547 | ..... |
| 50 | SEPARATION PAY | 46,101 | 46,101 | ..... |
| 55 | SOCIAL SECURITY TAX | 397,802 | 397,802 | ..... |
| | TOTAL, BUDGET ACTIVITY 1 | 9,871,405 | 9,871,405 | ..... |
| | ACTIVITY 2: PAY AND ALLOWANCES OF ENLISTED PERSONNEL | | | |
| 60 | BASIC PAY | 9,601,883 | 9,601,883 | ..... |
| 65 | RETIRED PAY ACCRUAL | 2,909,736 | 2,909,736 | ..... |
| 66 | THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS | 179,662 | 179,662 | ..... |
| 80 | BASIC ALLOWANCE FOR HOUSING | 3,882,466 | 3,882,466 | ..... |
| 85 | INCENTIVE PAYS | 71,294 | 71,294 | ..... |
| 90 | SPECIAL PAYS | 492,365 | 492,365 | ..... |
| 95 | ALLOWANCES | 559,102 | 559,102 | ..... |
| 100 | SEPARATION PAY | 121,017 | 121,017 | ..... |
| 105 | SOCIAL SECURITY TAX | 734,544 | 734,544 | ..... |
| | TOTAL, BUDGET ACTIVITY 2 | 18,552,069 | 18,552,069 | ..... |
| | ACTIVITY 3: PAY AND ALLOWANCES OF CADETS | | | |
| 110 | ACADEMY CADETS | 79,454 | 79,454 | ..... |
| | ACTIVITY 4: SUBSISTENCE OF ENLISTED PERSONNEL | | | |
| 115 | BASIC ALLOWANCE FOR SUBSISTENCE | 1,040,809 | 1,040,809 | ..... |
| 120 | SUBSISTENCE-IN-KIND | 146,609 | 146,609 | ..... |
| 121 | FAMILY SUBSISTENCE SUPPLEMENTAL ALLOWANCE | 6 | 6 | ..... |
| | TOTAL, BUDGET ACTIVITY 4 | 1,187,424 | 1,187,424 | ..... |
| | ACTIVITY 5: PERMANENT CHANGE OF STATION | | | |
| 125 | ACCESSION TRAVEL | 102,161 | 102,161 | ..... |
| 130 | TRAINING TRAVEL | 70,306 | 70,306 | ..... |
| 135 | OPERATIONAL TRAVEL | 279,456 | 279,456 | ..... |
| 140 | ROTATIONAL TRAVEL | 516,029 | 516,029 | ..... |
| 145 | SEPARATION TRAVEL | 162,934 | 162,934 | ..... |
| 150 | TRAVEL OF ORGANIZED UNITS | 9,752 | 9,752 | ..... |
| 155 | NON-TEMPORARY STORAGE | 28,300 | 28,300 | ..... |
| 160 | TEMPORARY LODGING EXPENSE | 34,442 | 34,442 | ..... |
| | TOTAL, BUDGET ACTIVITY 5 | 1,203,380 | 1,203,380 | ..... |
| | ACTIVITY 6: OTHER MILITARY PERSONNEL COSTS | | | |
| 170 | APPREHENSION OF MILITARY DESERTERS | 18 | 18 | ..... |
| 175 | INTEREST ON UNIFORMED SERVICES SAVINGS | 2,282 | 2,282 | ..... |
| 180 | DEATH GRATUITIES | 15,000 | 15,000 | ..... |
| 185 | UNEMPLOYMENT BENEFITS | 23,490 | 23,490 | ..... |
| 195 | EDUCATION BENEFITS | 55 | 55 | ..... |

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|--|----------------------|--------------------------|-----------------------------|
| 200 | ADOPTION EXPENSES | 462 | 462 | ..... |
| 210 | TRANSPORTATION SUBSIDY | 3,061 | 3,061 | ..... |
| 215 | PARTIAL DISLOCATION ALLOWANCE | 482 | 482 | ..... |
| 217 | RESERVE OFFICERS TRAINING CORPS (ROTC) | 47,328 | 47,328 | ..... |
| 218 | JUNIOR ROTC | 18,825 | 19,205 | + 380 |
| | TOTAL, BUDGET ACTIVITY 6 | 111,003 | 111,383 | + 380 |
| | LESS REIMBURSABLES | - 478,724 | - 478,724 | ..... |
| | UNDISTRIBUTED ADJUSTMENT ..... | ..... | - 376,000 | - 376,000 |
| | TRANSFER FROM O&M. AF ..... | ..... | 23,300 | + 23,300 |
| | TOTAL, ACTIVE FORCES, AIR FORCE | 30,526,011 | 30,173,691 | - 352,320 |
| | TOTAL, MILITARY PERSONNEL, AIR FORCE | 30,526,011 | 30,173,691 | - 352,320 |

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|--------|--|----------------------|--------------------------|-----------------------------|
| 218 | Junior ROTC | 18,825 | 19,205 | + 380 |
| | Program increase ..... | ..... | ..... | + 380 |
| UNDIST | Improving funds management: Rate adjustments ..... | ..... | - 26,000 | - 26,000 |
| UNDIST | Improving funds management: Revised budget estimate ..... | ..... | - 350,000 | - 350,000 |
| UNDIST | Transfer: From Air Force—identified asset in Operation and Maintenance, Air Force SAG 11C to be used for fiscal year 2019 costs associated with the transition to the Operational Camouflage Pattern (OCP) uniform at the request of the Air Force ..... | ..... | 23,300 | + 23,300 |

RESERVE PERSONNEL, ARMY

| | |
|--------------------------------|-----------------|
| Appropriations, 2018 | \$4,715,608,000 |
| Budget estimate, 2019 | 4,955,947,000 |
| Committee recommendation | 4,870,947,000 |

The Committee recommends an appropriation of \$4,870,947,000. This is \$85,000,000 below the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table summarizes the budget estimate for this appropriation, the Committee recommendation, and the Committee recommended adjustments to the budget estimate:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|---|----------------------|--------------------------|-----------------------------|
| | RESERVE PERSONNEL, ARMY | | | |
| | ACTIVITY 1: RESERVE COMPONENT TRAINING AND SUPPORT | | | |
| 10 | PAY GROUP A TRAINING (15 DAYS & DRILLS 24/48) | 1,624,216 | 1,624,216 | ..... |
| 20 | PAY GROUP B TRAINING (BACKFILL FOR ACTIVE DUTY) | 42,354 | 42,354 | ..... |
| 30 | PAY GROUP F TRAINING (RECRUITS) | 227,561 | 227,561 | ..... |
| 40 | PAY GROUP P TRAINING (PIPELINE RECRUITS) | 9,658 | 9,658 | ..... |
| 60 | MOBILIZATION TRAINING | 1,121 | 1,121 | ..... |
| 70 | SCHOOL TRAINING | 252,317 | 252,317 | ..... |

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|--|----------------------|--------------------------|-----------------------------|
| 80 | SPECIAL TRAINING | 309,074 | 309,074 | ..... |
| 90 | ADMINISTRATION AND SUPPORT | 2,309,323 | 2,309,323 | ..... |
| 94 | THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS | 35,494 | 35,494 | ..... |
| 100 | EDUCATION BENEFITS | 24,274 | 24,274 | ..... |
| 120 | HEALTH PROFESSION SCHOLARSHIP | 64,225 | 64,225 | ..... |
| 130 | OTHER PROGRAMS (ADMIN & SUPPORT) | 56,330 | 56,330 | ..... |
| | TOTAL, BUDGET ACTIVITY 1 | 4,955,947 | 4,955,947 | ..... |
| | UNDISTRIBUTED ADJUSTMENT ..... | ..... | - 85,000 | - 85,000 |
| | TOTAL RESERVE PERSONNEL, ARMY | 4,955,947 | 4,870,947 | - 85,000 |

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|--------|---|----------------------|--------------------------|-----------------------------|
| UNDIST | Improving funds management: Rate adjustments ..... | ..... | - 3,000 | - 3,000 |
| UNDIST | Improving funds management: Revised budget estimate ..... | ..... | - 82,000 | - 82,000 |

RESERVE PERSONNEL, NAVY

| | |
|--------------------------------|-----------------|
| Appropriations, 2018 | \$1,988,362,000 |
| Budget estimate, 2019 | 2,067,521,000 |
| Committee recommendation | 2,059,521,000 |

The Committee recommends an appropriation of \$2,059,521,000. This is \$8,000,000 below the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table summarizes the budget estimate for this appropriation, the Committee recommendation, and the Committee recommended adjustments to the budget estimate:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|---|----------------------|--------------------------|-----------------------------|
| | RESERVE PERSONNEL, NAVY | | | |
| | ACTIVITY 1: RESERVE COMPONENT TRAINING AND SUPPORT | | | |
| 10 | PAY GROUP A TRAINING (15 DAYS & DRILLS 24/48) | 698,480 | 698,480 | ..... |
| 20 | PAY GROUP B TRAINING (BACKFILL FOR ACTIVE DUTY) | 8,364 | 8,364 | ..... |
| 30 | PAY GROUP F TRAINING (RECRUITS) | 62,628 | 62,628 | ..... |
| 60 | MOBILIZATION TRAINING | 11,535 | 11,535 | ..... |
| 70 | SCHOOL TRAINING | 55,012 | 55,012 | ..... |
| 80 | SPECIAL TRAINING | 109,433 | 109,433 | ..... |
| 90 | ADMINISTRATION AND SUPPORT | 1,052,934 | 1,052,934 | ..... |
| 94 | THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS | 14,011 | 14,011 | ..... |
| 100 | EDUCATION BENEFITS | 78 | 78 | ..... |
| 120 | HEALTH PROFESSION SCHOLARSHIP | 55,046 | 55,046 | ..... |
| | TOTAL, BUDGET ACTIVITY 1 | 2,067,521 | 2,067,521 | ..... |
| | UNDISTRIBUTED ADJUSTMENT ..... | ..... | - 8,000 | - 8,000 |
| | TOTAL, RESERVE PERSONNEL, NAVY | 2,067,521 | 2,059,521 | - 8,000 |

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|--------|---|----------------------|--------------------------|-----------------------------|
| UNDIST | Improving funds management: Rate adjustments ..... | ..... | - 1,000 | - 1,000 |
| UNDIST | Improving funds management: Revised budget estimate ..... | ..... | - 7,000 | - 7,000 |

RESERVE PERSONNEL, MARINE CORPS

| | |
|--------------------------------|---------------|
| Appropriations, 2018 | \$764,903,000 |
| Budget estimate, 2019 | 788,090,000 |
| Committee recommendation | 787,090,000 |

The Committee recommends an appropriation of \$787,090,000. This is \$1,000,000 below the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table summarizes the budget estimate for this appropriation, the Committee recommendation, and the Committee recommended adjustments to the budget estimate:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|---|----------------------|--------------------------|-----------------------------|
| | RESERVE PERSONNEL, MARINE CORPS | | | |
| | ACTIVITY 1: RESERVE COMPONENT TRAINING AND SUPPORT | | | |
| 10 | PAY GROUP A TRAINING (15 DAYS & DRILLS 24/48) | 284,427 | 284,427 | ..... |
| 20 | PAY GROUP B TRAINING (BACKFILL FOR ACTIVE DUTY) | 44,091 | 44,091 | ..... |
| 30 | PAY GROUP F TRAINING (RECRUITS) | 124,573 | 124,573 | ..... |
| 60 | MOBILIZATION TRAINING | 1,347 | 1,347 | ..... |
| 70 | SCHOOL TRAINING | 26,089 | 26,089 | ..... |
| 80 | SPECIAL TRAINING | 42,780 | 42,780 | ..... |
| 90 | ADMINISTRATION AND SUPPORT | 244,504 | 244,504 | ..... |
| 94 | THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS | 4,776 | 4,776 | ..... |
| 95 | PLATOON LEADER CLASS | 9,364 | 9,364 | ..... |
| 100 | EDUCATION BENEFITS | 6,139 | 6,139 | ..... |
| | TOTAL, BUDGET ACTIVITY 1 | 788,090 | 788,090 | ..... |
| | UNDISTRIBUTED ADJUSTMENT ..... | ..... | - 1,000 | - 1,000 |
| | TOTAL, RESERVE PERSONNEL, MARINE CORPS | 788,090 | 787,090 | - 1,000 |

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|--------|--|----------------------|--------------------------|-----------------------------|
| UNDIST | Improving funds management: Rate adjustments ..... | ..... | - 1,000 | - 1,000 |

RESERVE PERSONNEL, AIR FORCE

| | |
|--------------------------------|-----------------|
| Appropriations, 2018 | \$1,802,554,000 |
| Budget estimate, 2019 | 1,894,286,000 |
| Committee recommendation | 1,871,286,000 |

The Committee recommends an appropriation of \$1,871,286,000. This is \$23,000,000 below the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table summarizes the budget estimate for this appropriation, the Committee recommendation, and the Committee recommended adjustments to the budget estimate:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|---|----------------------|--------------------------|-----------------------------|
| | RESERVE PERSONNEL, AIR FORCE | | | |
| | ACTIVITY 1: RESERVE COMPONENT TRAINING AND SUPPORT | | | |
| 10 | PAY GROUP A TRAINING (15 DAYS & DRILLS 24/48) | 700,565 | 700,565 | ..... |
| 20 | PAY GROUP B TRAINING (BACKFILL FOR ACTIVE DUTY) | 100,488 | 100,488 | ..... |
| 30 | PAY GROUP F TRAINING (RECRUITS) | 53,181 | 53,181 | ..... |
| 40 | PAY GROUP P TRAINING (PIPELINE RECRUITS) | 3,101 | 3,101 | ..... |
| 60 | MOBILIZATION TRAINING | 725 | 725 | ..... |
| 70 | SCHOOL TRAINING | 152,919 | 152,919 | ..... |
| 80 | SPECIAL TRAINING | 279,605 | 279,605 | ..... |
| 90 | ADMINISTRATION AND SUPPORT | 518,918 | 518,918 | ..... |
| 94 | THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS | 9,755 | 9,755 | ..... |
| 100 | EDUCATION BENEFITS | 14,553 | 14,553 | ..... |
| 120 | HEALTH PROFESSION SCHOLARSHIP | 57,363 | 57,363 | ..... |
| 130 | OTHER PROGRAMS (ADMIN & SUPPORT) | 3,113 | 3,113 | ..... |
| | TOTAL, BUDGET ACTIVITY 1 | 1,894,286 | 1,894,286 | ..... |
| | UNDISTRIBUTED ADJUSTMENT ..... | ..... | -23,000 | -23,000 |
| | TOTAL, RESERVE PERSONNEL, AIR FORCE | 1,894,286 | 1,871,286 | -23,000 |

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|--------|---|----------------------|--------------------------|-----------------------------|
| UNDIST | Improving funds management: Rate adjustments ..... | ..... | -1,000 | -1,000 |
| UNDIST | Improving funds management: Revised budget estimate ..... | ..... | -22,000 | -22,000 |

NATIONAL GUARD PERSONNEL, ARMY

| | |
|--------------------------------|-----------------|
| Appropriations, 2018 | \$8,264,626,000 |
| Budget estimate, 2019 | 8,744,345,000 |
| Committee recommendation | 8,650,645,000 |

The Committee recommends an appropriation of \$8,650,645,000. This is \$93,700,000 below the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table summarizes the budget estimate for this appropriation, the Committee recommendation, and the Committee recommended adjustments to the budget estimate:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|---|----------------------|--------------------------|-----------------------------|
| | NATIONAL GUARD PERSONNEL, ARMY | | | |
| | ACTIVITY 1: RESERVE COMPONENT TRAINING AND SUPPORT | | | |
| 10 | PAY GROUP A TRAINING (15 DAYS & DRILLS 24/48) | 2,805,051 | 2,805,051 | ..... |
| 30 | PAY GROUP F TRAINING (RECRUITS) | 575,310 | 575,310 | ..... |
| 40 | PAY GROUP P TRAINING (PIPELINE RECRUITS) | 43,618 | 43,618 | ..... |
| 70 | SCHOOL TRAINING | 554,644 | 554,644 | ..... |
| 80 | SPECIAL TRAINING | 695,097 | 698,697 | + 3,600 |
| 90 | ADMINISTRATION AND SUPPORT | 3,925,593 | 3,925,593 | ..... |
| 94 | THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS | 55,530 | 55,530 | ..... |
| 100 | EDUCATION BENEFITS | 89,502 | 89,502 | ..... |
| | TOTAL, BUDGET ACTIVITY 1 | 8,744,345 | 8,747,945 | + 3,600 |
| | UNDISTRIBUTED ADJUSTMENT ..... | ..... | - 99,500 | - 99,500 |
| | TRAUMA TRAINING ..... | ..... | 1,200 | + 1,200 |
| | WILDFIRE TRAINING ..... | ..... | 1,000 | + 1,000 |
| | TOTAL, NATIONAL GUARD PERSONNEL, ARMY | 8,744,345 | 8,650,645 | - 93,700 |

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|--------|---|----------------------|--------------------------|-----------------------------|
| 080 | Special Training | 695,097 | 698,697 | + 3,600 |
| | Program increase: State Partnership Program ..... | ..... | ..... | + 3,600 |
| UNDIST | Improving funds management: Rate adjustments ..... | ..... | - 7,000 | - 7,000 |
| UNDIST | Improving funds management: Revised budget estimate ..... | ..... | - 92,500 | - 92,500 |
| UNDIST | Program increase: Advanced trauma training program ..... | ..... | 1,200 | + 1,200 |
| UNDIST | Program increase: National Guard wildfire training ..... | ..... | 1,000 | + 1,000 |

National Guard Cyber Protection Teams.—The Army National Guard currently has 11 Cyber Protection Teams [CPT] with a plan to reach Full Operational Capability by fiscal year 2022. The Committee recognizes the National Guard's unique authority to provide cyberspace operations support to State and local agencies for domestic operations, supports additional CPTs and encourages the Army to investigate the viability of a CPT in each State's Guard.

NATIONAL GUARD PERSONNEL, AIR FORCE

| | |
|--------------------------------|-----------------|
| Appropriations, 2018 | \$3,408,817,000 |
| Budget estimate, 2019 | 3,725,380,000 |
| Committee recommendation | 3,718,780,000 |

The Committee recommends an appropriation of \$3,718,780,000. This is \$6,600,000 below the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table summarizes the budget estimate for this appropriation, the Committee recommendation, and the Committee recommended adjustments to the budget estimate:

(In thousands of dollars)

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|---|----------------------|--------------------------|-----------------------------|
| | NATIONAL GUARD PERSONNEL, AIR FORCE | | | |
| | ACTIVITY 1: RESERVE COMPONENT TRAINING AND SUPPORT | | | |
| 10 | PAY GROUP A TRAINING (15 DAYS & DRILLS 24/48) | 989,368 | 989,368 | ..... |
| 30 | PAY GROUP F TRAINING (RECRUITS) | 85,771 | 85,771 | ..... |
| 40 | PAY GROUP P TRAINING (PIPELINE RECRUITS) | 8,113 | 8,113 | ..... |
| 70 | SCHOOL TRAINING | 334,293 | 334,293 | ..... |
| 80 | SPECIAL TRAINING | 167,411 | 171,011 | + 3,600 |
| 90 | ADMINISTRATION AND SUPPORT | 2,099,045 | 2,099,045 | ..... |
| 94 | THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS | 25,177 | 25,177 | ..... |
| 100 | EDUCATION BENEFITS | 16,202 | 16,202 | ..... |
| | TOTAL, BUDGET ACTIVITY 1 | 3,725,380 | 3,728,980 | + 3,600 |
| | UNDISTRIBUTED ADJUSTMENT ..... | ..... | - 12,000 | - 12,000 |
| | TRAUMA TRAINING ..... | ..... | 1,800 | + 1,800 |
| | TOTAL, NATIONAL GUARD PERSONNEL, AIR FORCE | 3,725,380 | 3,718,780 | - 6,600 |

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

(In thousands of dollars)

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|--------|---|----------------------|--------------------------|-----------------------------|
| 080 | Special Training | 167,411 | 171,011 | + 3,600 |
| | Program increase: State Partnership Program ..... | ..... | ..... | + 3,600 |
| UNDIST | Improving funds management: Rate adjustments ..... | ..... | - 2,000 | - 2,000 |
| UNDIST | Improving funds management: Revised budget estimate ..... | ..... | - 10,000 | - 10,000 |
| UNDIST | Program increase: Advanced trauma training program ..... | ..... | 1,800 | + 1,800 |

TITLE II
OPERATION AND MAINTENANCE

Funds appropriated under this title provide the resources required to prepare for and conduct combat operations and other peace time missions. These funds are used to purchase fuel and spare parts for training operations, pay supporting civilian personnel, and purchase supplies, equipment, and service contracts for the repair of weapons and facilities.

The President's fiscal year 2019 budget requests a total of \$199,469,636,000 for operation and maintenance appropriations.

SUMMARY OF COMMITTEE ACTION

The Committee recommends operation and maintenance appropriations totaling \$193,982,413,000 for fiscal year 2019. This is \$5,487,223,000 below the budget estimate.

Committee recommended operation and maintenance appropriations for fiscal year 2019 are summarized below:

SUMMARY OF OPERATION AND MAINTENANCE APPROPRIATIONS

[In thousands of dollars]

| Account | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|---|----------------------|--------------------------|-----------------------------|
| Operation and Maintenance: | | | |
| Operation and Maintenance, Army | 42,009,317 | 40,634,715 | - 1,374,602 |
| Operation and Maintenance, Navy | 49,003,633 | 47,296,183 | - 1,707,450 |
| Operation and Maintenance, Marine Corps | 6,832,510 | 6,372,000 | - 460,510 |
| Operation and Maintenance, Air Force | 42,060,568 | 40,775,374 | - 1,285,194 |
| Operation and Maintenance, Defense-Wide | 36,352,625 | 35,662,783 | - 689,842 |
| Operation and Maintenance, Army Reserve | 2,916,909 | 2,854,909 | - 62,000 |
| Operation and Maintenance, Navy Reserve | 1,027,006 | 1,018,006 | - 9,000 |
| Operation and Maintenance, Marine Corps Reserve | 271,570 | 271,570 | ..... |
| Operation and Maintenance, Air Force Reserve | 3,260,234 | 3,247,534 | - 12,700 |
| Operation and Maintenance, Army National Guard | 7,399,295 | 7,261,295 | - 138,000 |
| Operation and Maintenance, Air National Guard | 6,427,622 | 6,433,697 | + 6,075 |
| United States Court of Appeals for the Armed Forces | 14,662 | 14,662 | ..... |
| Environmental Restoration, Army | 203,449 | 228,449 | + 25,000 |
| Environmental Restoration, Navy | 329,253 | 329,253 | ..... |
| Environmental Restoration, Air Force | 296,808 | 365,808 | + 69,000 |
| Environmental Restoration, Defense-Wide | 8,926 | 8,926 | ..... |
| Environmental Restoration, Formerly Used Defense Sites | 212,346 | 212,346 | ..... |
| Overseas Humanitarian, Disaster, and Civic Aid | 107,663 | 107,663 | ..... |
| Cooperative Threat Reduction Account | 335,240 | 335,240 | ..... |
| Department of Defense Acquisition Workforce Development Fund .. | 400,000 | 552,000 | + 152,000 |
| Total | 199,469,636 | 193,982,413 | - 5,487,223 |

REPROGRAMMING GUIDANCE FOR OPERATION AND MAINTENANCE
ACCOUNTS

The Committee directs the Secretary of Defense to submit the Base for Reprogramming (DD Form 1414) for each of the fiscal year 2019 appropriation accounts not later than 60 days after the enactment of this act. The Secretary of Defense is prohibited from executing any reprogramming or transfer of funds for any purpose other than originally appropriated until the aforementioned report is submitted to the House and Senate Appropriations Committees.

The Committee directs the Secretary of Defense to use the normal prior approval reprogramming procedures to transfer funds in the services' operation and maintenance accounts between O-1 budget activities, or between subactivity groups in the case of Operation and Maintenance, Defense-Wide, in excess of \$20,000,000.

The Committee maintains the reprogramming rules established in the Department of Defense Appropriations Act, 2018 (Public Law 115-141) for transferring funding out of readiness subactivity groups, which are defined as follows:

Army:

- Maneuver units
- Modular support brigades
- Land forces operations support
- Aviation assets
- Force readiness operations support
- Land forces depot maintenance
- Base operations support
- Facilities sustainment, restoration and modernization
- Specialized skill training

Navy:

- Mission and other flight operations
- Fleet air training
- Aircraft depot maintenance
- Mission and other ship operations
- Ship depot maintenance
- Facilities sustainment, restoration and modernization

Marine Corps:

- Operational forces
- Field logistics
- Depot maintenance
- Facilities sustainment, restoration and modernization

Air Force:

- Primary combat forces
- Combat enhancement forces
- Depot purchase equipment maintenance
- Facilities sustainment, restoration and modernization
- Contractor logistics support and system support
- Flying hour program

Air Force Reserve:

- Primary combat forces

Air National Guard:

- Aircraft operations

During fiscal year 2019, the Committee directs the Service Secretaries to submit written notification to the congressional defense

committees not later than 30 days prior to implementing transfers in excess of \$20,000,000 out of any readiness sub-activity if the funds will be transferred into another readiness sub-activity. However, if funding is transferred out of any readiness sub-activity into a non-readiness sub-activity, the Secretary of Defense is directed to use normal prior approval reprogramming procedures.

The Committee further directs the Service Secretaries to include an enclosure with each written notification that includes increases and decreases by sub-activity group, a detailed justification explaining why the sources of funding are available and why the increases are necessary, and an explanation of the impact on resources included in the fiscal year 2020 budget request for each increase and decrease. All transfers may be implemented 30 days after congressional notification unless an objection is received from one of the congressional defense committees.

Additionally, the Committee directs the Secretary of Defense to use normal prior approval reprogramming procedures when implementing transfers in excess of \$20,000,000 into the following budget sub-activities:

Operation and Maintenance, Army:

Recruiting and advertising

Operation and Maintenance, Army National Guard:

Other personnel support/recruiting and advertising

OPERATION AND MAINTENANCE BUDGET EXECUTION DATA

The Committee directs the Secretary of Defense to continue to provide the congressional defense committees with quarterly budget execution data. Such data should be provided not later than 45 days after the close of each quarter of the fiscal year, and should be provided for each O-1 budget activity, activity group, and sub-activity group for each of the active, defense-wide, reserve, and National Guard components. For each O-1 budget activity, activity group, and sub-activity group, these reports should include the budget request and actual obligation amount, the distribution of unallocated congressional adjustments to the budget request, all adjustments made by the Department in establishing the Base for Reprogramming (DD Form 1414) report, all adjustments resulting from below threshold reprogrammings, and all adjustments resulting from prior approval reprogramming requests.

OPERATION AND MAINTENANCE SPECIAL INTEREST ITEMS

Items for which additional funds have been provided or have been specifically reduced as shown in the project level tables or in paragraphs using the phrase "only for" or "only to" in the Committee report are congressional special interest items for the purpose of the Base for Reprogramming (DD Form 1414). Each of these items must be carried on the DD Form 1414 at the stated amount as specifically addressed in the Committee report. Below Threshold Reprogrammings may not be used to either restore or reduce funding from congressional special interest items as identified on the DD Form 1414.

OPERATION AND MAINTENANCE OVERVIEW

Civilian Workforce.—The Committee expects the Department of Defense to maintain a stable, effective, right-sized civilian cadre. The Committee further expects the hiring process to be responsive and efficient in order to build the workforce needed to achieve its mission and strategic goals. The Committee recognizes the critical role that the civilian workforce plays every day in ensuring the mission success of the Armed Forces.

Contract Services Spending.—The Committee is concerned that the Department of Defense does not have adequate policies, procedures, and controls in place to enforce limitations on the annual amounts expended on contracted services. There is further concern that not all contracted services are being subjected to spending limitations because of the exclusion of contracted services involving Economy Act transfers between and within Department of Defense components. Additionally, because of the disparity between the levels of contracted services captured in the Inventory of Contracts for Services, required under section 2330a of title 10, United States Code, and what the Department budgets for contracted services, it appears as though the Department does not deliberately plan for most contracted services. The Committee urges the Under Secretary of Defense (Comptroller) to review the efforts of the financial management and acquisition communities to implement effective control mechanisms for contracted services spending.

Tobacco Use in the Military.—Tobacco use is the leading cause of preventable death in the United States, with more than 480,000 deaths attributable to cigarette smoking each year. The Department of Defense has affirmed the goal of a tobacco-free military, and has implemented a range of programs including public education campaigns, the banning of all tobacco use during basic training, and the prohibition of tobacco use by instructors in the presence of students. The Committee supports the Secretary of Defense's Policy Memorandum 16-001 from April 8, 2016, directing the military services "to ensure a comprehensive tobacco policy that assists with preventing initiation of tobacco use, helping those who want to quit using tobacco succeed, and decreasing exposure to second-hand smoke for all our people." As a result, the Committee retains a provision from the Department of Defense Appropriations Act, 2018 (Public Law 115-141) directing the elimination of the price subsidy provided to tobacco products at military exchanges.

Voluntary Military Education Programs—Enforcing Memorandum of Understanding.—The Committee supports the Department of Defense's commitment to enforcing the terms of the current Memorandum of Understanding [MOU] with all educational institutions providing educational programs through the Department of Defense tuition assistance program. The Committee is also supportive of the Department's efforts to increase participating institutions' understanding of their contractual obligations as MOU signatories and the procedures for enforcement as outlined in Department of Defense Instruction [DODI] 1322.25. The Committee urges the Department to maintain vigorous defense of these responsibilities in order to protect the integrity and quality of voluntary military education programs.

Demonstration Project for Contractors Employing Persons with Disabilities.—The Committee encourages the Secretary of Defense to pursue a demonstration project for contractors employing persons with disabilities. The demonstration project is modeled after the Small Business Administration's Set Aside program, but uniquely includes an incentive for Federal contracting entities to hire people with disabilities who currently receive Social Security benefits. Such a demonstration project provides opportunities for severely disabled individuals to become gainfully employed taxpayers.

Transfer of Veterans Memorial Objects to Foreign Governments.—The Committee directs that the use of any funds appropriated in this act to carry out authorities under section 2864 of the National Defense Authorization Act for Fiscal Year 2018 be subject to normal reprogramming procedures.

Reporting Requirement on Suppliers from Bangladesh.—The annual report directed by the Department of Defense Appropriations Act, 2015 regarding factories in Bangladesh that produce items sold in the commissary and exchange systems is no longer required after fiscal year 2018.

Drinking Water Contamination.—The Committee remains concerned about the health implications of contaminated drinking water due to perfluorinated chemicals [PFCs]. The Committee worked with the military services to assess unfunded executable requirements in fiscal year 2019 due to issues associated PFCs and provided additional funding accordingly. The Committee intends to aggressively follow up with the services on procedures for timely remediation and community notification.

Additionally, the Committee encourages the Secretary of Defense to evaluate the efficacy and cost-effectiveness of available remediation technologies for the removal of PFCs and other chemical contaminants from ground water and drinking water, to include granulated activated carbon systems which have already been installed at current and former Department of Defense installations.

Boards for Correction of Military Records.—The Air Force Review Board Agency, Army Review Boards Agency, and the Board of Naval Corrections play a decisive role ensuring that military personnel enjoy fair, just, and equitable decisions as it pertains to their service records and benefits. However, the Committee is concerned that the Boards have failed to modernize personnel, processes, and infrastructure at the pace required for demonstrated increases in the volume and complexity of its caseloads. As a result, the Boards are significantly under-resourced. The Committee also notes that none of the Boards have current, validated needs assessments for personnel, information technology, and operations, which are critical to the budget process. The Committee has not yet received the report directed by the Department of Defense Appropriations Act, 2018, and awaits receipt of the service Secretaries' plans to address these resourcing issues.

Excess Department of Defense Property.—The Department of Defense's 1033 program, which transfers surplus equipment to Federal, State, local, tribal and territorial law enforcement agencies, can provide substantial support for law enforcement activities. The Committee notes that current law requires consultation between

the Secretary of Defense and the Attorney General, the Director of National Drug Control Policy, and the Secretary of Homeland Security, as appropriate. The Committee urges the Secretary of Defense to maintain an ongoing working group of agency representatives from the Departments of Justice and Homeland Security, the Office of National Drug Control Policy, the General Services Administration, as well as public stakeholders, to provide effective consultation regarding the 1033 program, to discuss issues, concerns and opportunities regarding the 1033 program, and to ensure coordination with programs that provide similar equipment to law enforcement. The Committee directs the Director of the Defense Logistics Agency to improve public transparency and ensure that all program data is proactively published through the Law Enforcement Support Office [LESO] website. This should include historic data on both items requested and all transferred items. The Committee further directs the Director of the Defense Logistics Agency to notify Congress and the public, through the LESO website, before changes are made regarding the list of items allowed for transfer, including changes to those items considered controlled items.

Long-term Temporary Duty Allowance.—The Committee recognizes the importance of per diem allowances for travelers on long-term temporary duty assignments. The Committee affirms its support for Section 632 of S. 2987, the National Defense Authorization Act for Fiscal Year 2019, which prohibits the Department of Defense from reducing per diem rates based on the duration of a temporary duty assignment or civilian travel.

Operation and Maintenance Budget Justification.—The Committee commends the Department for the improvements in the Operation and Maintenance [O&M] budget materials made over the past several years. To further inform the congressional review, the Committee directs the following actions:

- The Air Force justification lacks sufficient performance criteria in a number of budget line items due to the recent consolidation of flying hour costs into a separate, single budget line item. The Air Force is directed to develop more meaningful performance metrics and criteria for the following budget line items to be included in the budget justification for fiscal year 2020: 11A Primary Combat Forces, 11C Combat Enhancement Forces, 11D Air Operations Training, 12A Global C3I and Early Warning, 12C Other Combat Operations Support Programs, 21A Airlift Operations, 32B Flight Training, and 42G Other Servicewide Activities.
- The Air Force, Air Force Reserve, and Air National Guard are directed to include average salary data in the Personnel Summary section of the OP-5 exhibits.

Arctic Broadband Infrastructure.—The Committee is concerned that broadband infrastructure in the Arctic, particularly in northern Alaska and the Aleutian Islands, is not capable of supporting current military operations. Therefore, the Committee directs the Secretary of Defense to conduct an evaluation of broadband infrastructure in the United States Arctic and provide a report to the congressional defense committees not later than 180 days after enactment of this act. The report shall list an inventory of all existing broadband and communications infrastructure in the Aleutian Is-

land chain and Alaska's northwest and northern slope communities, as well as present limitations and needs for the future.

OPERATION AND MAINTENANCE, ARMY

Appropriations, 2018 \$38,816,957,000
 Budget estimate, 2019 42,009,317,000
 Committee recommendation 40,634,715,000

The Committee recommends an appropriation of \$40,634,715,000. This is \$1,374,602,000 below the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table summarizes the budget estimate for this appropriation, the Committee recommendation, and the Committee recommended adjustments to the budget estimate:

(In thousands of dollars)

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|--|----------------------|--------------------------|-----------------------------|
| | OPERATION AND MAINTENANCE, ARMY | | | |
| | BUDGET ACTIVITY 1: OPERATING FORCES | | | |
| | LAND FORCES | | | |
| 10 | MANEUVER UNITS | 2,076,360 | 1,761,360 | - 315,000 |
| 20 | MODULAR SUPPORT BRIGADES | 107,946 | 107,946 | ..... |
| 30 | ECHELONS ABOVE BRIGADES | 732,485 | 732,485 | ..... |
| 40 | THEATER LEVEL ASSETS | 1,169,508 | 1,079,508 | - 90,000 |
| 50 | LAND FORCES OPERATIONS SUPPORT | 1,180,460 | 1,180,460 | ..... |
| 60 | AVIATION ASSETS | 1,467,500 | 1,417,500 | - 50,000 |
| | LAND FORCES READINESS | | | |
| 70 | FORCE READINESS OPERATIONS SUPPORT | 4,285,211 | 3,895,211 | - 390,000 |
| 80 | LAND FORCES SYSTEMS READINESS | 482,201 | 482,201 | ..... |
| 90 | LAND FORCES DEPOT MAINTENANCE | 1,536,851 | 1,236,851 | - 300,000 |
| | LAND FORCES READINESS SUPPORT | | | |
| 100 | BASE OPERATIONS SUPPORT | 8,274,299 | 8,242,299 | - 32,000 |
| 110 | FACILITIES SUSTAINMENT, RESTORATION, & MODERNIZATION | 3,516,859 | 3,523,609 | + 6,750 |
| 120 | MANAGEMENT AND OPERATIONAL HEADQUARTERS | 438,733 | 438,733 | ..... |
| | COMBATANT COMMAND SUPPORT | | | |
| 180 | US AFRICA COMMAND | 231,518 | 231,518 | ..... |
| 190 | US EUROPEAN COMMAND | 150,268 | 141,268 | - 9,000 |
| 200 | US SOUTHERN COMMAND | 195,964 | 213,964 | + 18,000 |
| 210 | US FORCES KOREA | 59,625 | 59,625 | ..... |
| | TOTAL, BUDGET ACTIVITY 1 | 25,905,788 | 24,744,538 | - 1,161,250 |
| | BUDGET ACTIVITY 2: MOBILIZATION | | | |
| | MOBILITY OPERATIONS | | | |
| 220 | STRATEGIC MOBILITY | 370,941 | 354,941 | - 16,000 |
| 230 | ARMY PREPOSITIONED STOCKS | 573,560 | 562,560 | - 11,000 |
| 240 | INDUSTRIAL PREPAREDNESS | 7,678 | 7,678 | ..... |
| | TOTAL, BUDGET ACTIVITY 2 | 952,179 | 925,179 | - 27,000 |
| | BUDGET ACTIVITY 3: TRAINING AND RECRUITING | | | |
| | ACCESSION TRAINING | | | |
| 250 | OFFICER ACQUISITION | 135,832 | 135,832 | ..... |
| 260 | RECRUIT TRAINING | 54,819 | 54,819 | ..... |
| 270 | ONE STATION UNIT TRAINING | 69,599 | 69,599 | ..... |
| 280 | SENIOR RESERVE OFFICERS TRAINING CORPS | 518,998 | 518,998 | ..... |
| | BASIC SKILL AND ADVANCED TRAINING | | | |
| 290 | SPECIALIZED SKILL TRAINING | 1,020,073 | 1,007,073 | - 13,000 |
| 300 | FLIGHT TRAINING | 1,082,190 | 1,082,190 | ..... |

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|---|----------------------|--------------------------|-----------------------------|
| 310 | PROFESSIONAL DEVELOPMENT EDUCATION | 220,399 | 220,399 | ..... |
| 320 | TRAINING SUPPORT | 611,482 | 611,482 | ..... |
| | RECRUITING AND OTHER TRAINING AND EDUCATION | | | |
| 330 | RECRUITING AND ADVERTISING | 698,962 | 648,962 | - 50,000 |
| 340 | EXAMINING | 162,049 | 162,049 | ..... |
| 350 | OFF-DUTY AND VOLUNTARY EDUCATION | 215,622 | 215,622 | ..... |
| 360 | CIVILIAN EDUCATION AND TRAINING | 176,914 | 176,914 | ..... |
| 370 | JUNIOR RESERVE OFFICERS TRAINING CORPS | 174,430 | 180,570 | + 6,140 |
| | TOTAL, BUDGET ACTIVITY 3 | 5,141,369 | 5,084,509 | - 56,860 |
| | BUDGET ACTIVITY 4: ADMIN & SERVICEWIDE ACTIVITIES | | | |
| | LOGISTICS OPERATIONS | | | |
| 390 | SERVICEWIDE TRANSPORTATION | 588,047 | 588,047 | ..... |
| 400 | CENTRAL SUPPLY ACTIVITIES | 931,462 | 921,462 | - 10,000 |
| 410 | LOGISTICS SUPPORT ACTIVITIES | 696,114 | 696,114 | ..... |
| 420 | AMMUNITION MANAGEMENT | 461,637 | 461,637 | ..... |
| | SERVICEWIDE SUPPORT | | | |
| 430 | ADMINISTRATION | 447,564 | 447,564 | ..... |
| 440 | SERVICEWIDE COMMUNICATIONS | 2,069,127 | 2,069,127 | ..... |
| 450 | MANPOWER MANAGEMENT | 261,021 | 261,021 | ..... |
| 460 | OTHER PERSONNEL SUPPORT | 379,541 | 349,541 | - 30,000 |
| 470 | OTHER SERVICE SUPPORT | 1,699,767 | 1,687,767 | - 12,000 |
| 480 | ARMY CLAIMS ACTIVITIES | 192,686 | 192,686 | ..... |
| 490 | REAL ESTATE MANAGEMENT | 240,917 | 240,917 | ..... |
| 500 | BASE OPERATIONS SUPPORT | 291,569 | 291,569 | ..... |
| | SUPPORT OF OTHER NATIONS | | | |
| 510 | SUPPORT OF NATO OPERATIONS | 442,656 | 442,656 | ..... |
| 520 | MISC. SUPPORT OF OTHER NATIONS | 48,251 | 48,251 | ..... |
| | OTHER PROGRAMS | | | |
| | OTHER PROGRAMS | 1,259,622 | 1,281,130 | + 21,508 |
| | TOTAL, BUDGET ACTIVITY 4 | 10,009,981 | 9,979,489 | - 30,492 |
| | OVERESTIMATION OF CIVILIAN FTE TARGETS ..... | ..... | - 100,000 | - 100,000 |
| | PL115-68 IMPLEMENTATION ..... | ..... | 1,000 | + 1,000 |
| | TOTAL, OPERATION AND MAINTENANCE, ARMY | 42,009,317 | 40,634,715 | - 1,374,602 |

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|--|----------------------|--------------------------|-----------------------------|
| 111 | Maneuver Units | 2,076,360 | 1,761,360 | - 315,000 |
| | Maintain program affordability: Unjustified growth ..... | ..... | ..... | - 15,000 |
| | Transfer: From Title II to Title IX for OCO Operations ..... | ..... | ..... | - 300,000 |
| 114 | Theater Level Assets | 1,169,508 | 1,079,508 | - 90,000 |
| | Maintain program affordability: Unjustified growth ..... | ..... | ..... | - 90,000 |
| 116 | Aviation Assets | 1,467,500 | 1,417,500 | - 50,000 |
| | Maintain program affordability: Unjustified growth ..... | ..... | ..... | - 50,000 |
| 121 | Force Readiness Operations Support | 4,285,211 | 3,895,211 | - 390,000 |
| | Program increase: Advanced combat helmets ..... | ..... | ..... | + 10,000 |
| | Transfer: From Title II to Title IX for OCO Operations ..... | ..... | ..... | - 400,000 |
| 123 | Land Forces Depot Maintenance | 1,536,851 | 1,236,851 | - 300,000 |
| | Transfer: From Title II to Title IX for OCO Operations ..... | ..... | ..... | - 300,000 |
| 131 | Base Operations Support | 8,274,299 | 8,242,299 | - 32,000 |

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|--------|--|----------------------|--------------------------|-----------------------------|
| | Improving funds management: Remove one-time fiscal year 2018 increase | | | - 50,000 |
| | Program increase: PFOS/PFOA treatment, sampling, site investigations | | | + 17,000 |
| | Program increase: Prevention of child abuse and training on safe childcare practices | | | + 1,000 |
| 132 | Facilities Sustainment, Restoration & Modernization | 3,516,859 | 3,523,609 | + 6,750 |
| | Program increase: Advanced manufacturing | | | + 4,250 |
| | Program increase: Energy resilience | | | + 2,500 |
| 142 | US European Command | 150,268 | 141,268 | - 9,000 |
| | Improving funds management: Remove one-time fiscal year 2018 increase | | | - 9,000 |
| 143 | US Southern Command | 195,964 | 213,964 | + 18,000 |
| | Program increase: Multi-mission support vessel | | | + 18,000 |
| 211 | Strategic Mobility | 370,941 | 354,941 | - 16,000 |
| | Maintain program affordability: Unjustified growth | | | - 16,000 |
| 212 | Army Prepositioned Stocks | 573,560 | 562,560 | - 11,000 |
| | Maintain program affordability: Unjustified growth | | | - 11,000 |
| 321 | Specialized Skill Training | 1,020,073 | 1,007,073 | - 13,000 |
| | Improving funds management: Program decrease unaccounted for | | | - 13,000 |
| 331 | Recruiting and Advertising | 698,962 | 648,962 | - 50,000 |
| | Maintain program affordability: Unjustified growth | | | - 50,000 |
| 335 | Junior Reserve Officer Training Corps | 174,430 | 180,570 | + 6,140 |
| | Program increase | | | + 6,140 |
| 411 | Security Programs | 1,259,622 | 1,281,130 | + 21,508 |
| | Program increase: SOUTHCOM ISR requirements | | | + 23,328 |
| | Classified program adjustment | | | - 1,820 |
| 422 | Central Supply Activities | 931,462 | 921,462 | - 10,000 |
| | Maintain program affordability: Unjustified growth | | | - 10,000 |
| 434 | Other Personnel Support | 379,541 | 349,541 | - 30,000 |
| | Maintain program affordability: Unjustified growth | | | - 30,000 |
| 435 | Other Service Support | 1,699,767 | 1,687,767 | - 12,000 |
| | Improving funds management: Program decrease unaccounted for | | | - 12,000 |
| UNDIST | Maintain program affordability: Overestimation of Civilian FTE | | - 100,000 | - 100,000 |
| UNDIST | Program increase: Public Law115-68 implementation at Combatant Commands | | 1,000 | + 1,000 |

Army Sustainment, Restoration and Modernization and Facility Reduction Funding.—The Committee supports the robust funding level requested in fiscal year 2019 for facility sustainment, restoration and modernization. The Secretary of the Army is encouraged to use a portion of these funds on Army testing facilities and for the demolition of contaminated military facilities that are no longer in use.

Army Mountain Warfare Capabilities.—The Committee recognizes the contemporary national security relevance of military mountaineering training and supports bolstering existing frameworks to train personnel in this field. The Committee directs the Secretary of the Army to review the Army's current mountaineering capabilities, any gaps in personnel and resources for continuing and potential missions, and any limitations that may exist to increasing training capacity should it be required. The Secretary of the Army shall provide a report detailing the results of the review to the House and Senate Appropriations Committees not later than 90 days after the enactment of this act.

Mobile Small Arms Repair Team.—The Committee encourages the Secretary of the Army to conduct a pilot program to assess the feasibility and advisability of providing a mobile small arms repair team to be located near a United States Army Depot.

Logistics Automation Systems Sustainment.—The Committee encourages the Secretary of the Army to leverage Condition Based Maintenance technologies and concepts to maintain logistic and equipment publications. This includes utilizing industry available software that can be integrated for specific purposes in the capture of holistic data analytics provided by embedded sensors to update equipment and repair manuals in real time.

OPERATION AND MAINTENANCE, NAVY

| | |
|--------------------------------|------------------|
| Appropriations, 2018 | \$45,384,353,000 |
| Budget estimate, 2019 | 49,003,633,000 |
| Committee recommendation | 47,296,183,000 |

The Committee recommends an appropriation of \$47,296,183,000. This is \$1,707,450,000 below the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table summarizes the budget estimate for this appropriation, the Committee recommendation, and the Committee recommended adjustments to the budget estimate:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|--|----------------------|--------------------------|-----------------------------|
| | OPERATION AND MAINTENANCE, NAVY | | | |
| | BUDGET ACTIVITY 1: OPERATING FORCES | | | |
| | AIR OPERATIONS | | | |
| 10 | MISSION AND OTHER FLIGHT OPERATIONS | 5,372,399 | 4,772,399 | — 600,000 |
| 20 | FLEET AIR TRAINING | 2,023,351 | 2,023,351 | ..... |
| 30 | AVIATION TECHNICAL DATA AND ENGINEERING SERVICES | 56,225 | 56,225 | ..... |
| 40 | AIR OPERATIONS AND SAFETY SUPPORT | 156,081 | 156,081 | ..... |
| 50 | AIR SYSTEMS SUPPORT | 682,379 | 670,379 | — 12,000 |
| 60 | AIRCRAFT DEPOT MAINTENANCE | 1,253,756 | 1,253,756 | ..... |
| 70 | AIRCRAFT DEPOT OPERATIONS SUPPORT | 66,649 | 66,649 | ..... |
| 80 | AVIATION LOGISTICS | 939,368 | 939,368 | ..... |
| | SHIP OPERATIONS | | | |
| 90 | MISSION AND OTHER SHIP OPERATIONS | 4,439,566 | 3,819,566 | — 620,000 |
| 100 | SHIP OPERATIONS SUPPORT AND TRAINING | 997,663 | 997,663 | ..... |
| 110 | SHIP DEPOT MAINTENANCE | 8,751,526 | 8,141,526 | — 610,000 |
| 120 | SHIP DEPOT OPERATIONS SUPPORT | 2,168,876 | 2,168,876 | ..... |
| | COMBAT COMMUNICATIONS/SUPPORT | | | |
| 130 | COMBAT COMMUNICATIONS AND ELECTRONIC WARFARE | 1,349,593 | 1,343,293 | — 6,300 |
| 150 | SPACE SYSTEMS AND SURVEILLANCE | 215,255 | 215,255 | ..... |
| 160 | WARFARE TACTICS | 632,446 | 617,446 | — 15,000 |
| 170 | OPERATIONAL METEOROLOGY AND OCEANOGRAPHY | 373,046 | 373,046 | ..... |
| 180 | COMBAT SUPPORT FORCES | 1,452,075 | 1,452,075 | ..... |
| 190 | EQUIPMENT MAINTENANCE AND DEPOT OPERATIONS SUPPORT .. | 153,719 | 153,719 | ..... |
| 210 | COMBATANT COMMANDERS CORE OPERATIONS | 63,039 | 63,039 | ..... |
| 220 | COMBATANT COMMANDERS DIRECT MISSION SUPPORT | 89,339 | 89,339 | ..... |
| 230 | MILITARY INFORMATION SUPPORT OPERATIONS | 8,475 | 8,475 | ..... |
| 240 | CYBERSPACE ACTIVITIES | 424,088 | 424,088 | ..... |
| | WEAPONS SUPPORT | | | |
| 260 | FLEET BALLISTIC MISSILE | 1,361,947 | 1,361,947 | ..... |
| 280 | WEAPONS MAINTENANCE | 823,952 | 823,952 | ..... |
| 290 | OTHER WEAPON SYSTEMS SUPPORT | 494,101 | 474,101 | — 20,000 |

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|---|----------------------|--------------------------|-----------------------------|
| | BASE SUPPORT | | | |
| 300 | ENTERPRISE INFORMATION TECHNOLOGY | 921,936 | 921,936 | ..... |
| 310 | FACILITIES SUSTAINMENT, RESTORATION & MODERNIZATION | 2,040,389 | 2,390,389 | + 350,000 |
| 320 | BASE OPERATING SUPPORT | 4,414,753 | 4,418,253 | + 3,500 |
| | TOTAL, BUDGET ACTIVITY 1 | 41,725,992 | 40,196,192 | - 1,529,800 |
| | BUDGET ACTIVITY 2: MOBILIZATION | | | |
| | READY RESERVE AND PREPOSITIONING FORCES | | | |
| 330 | SHIP PREPOSITIONING AND SURGE | 549,142 | 549,142 | ..... |
| 340 | READY RESERVE FORCE | 310,805 | 310,805 | ..... |
| | ACTIVATIONS/INACTIVATIONS | | | |
| 360 | SHIP ACTIVATIONS/INACTIVATIONS | 161,150 | 161,150 | ..... |
| | MOBILIZATION PREPAREDNESS | | | |
| 370 | FLEET HOSPITAL PROGRAM | 120,338 | 120,338 | ..... |
| 390 | COAST GUARD SUPPORT | 24,097 | 24,097 | ..... |
| | TOTAL, BUDGET ACTIVITY 2 | 1,165,532 | 1,165,532 | ..... |
| | BUDGET ACTIVITY 3: TRAINING AND RECRUITING | | | |
| | ACCESSION TRAINING | | | |
| 400 | OFFICER ACQUISITION | 145,481 | 145,481 | ..... |
| 410 | RECRUIT TRAINING | 9,637 | 9,637 | ..... |
| 420 | RESERVE OFFICERS TRAINING CORPS | 149,687 | 151,187 | + 1,500 |
| | BASIC SKILLS AND ADVANCED TRAINING | | | |
| 430 | SPECIALIZED SKILL TRAINING | 879,557 | 793,557 | - 86,000 |
| 450 | PROFESSIONAL DEVELOPMENT EDUCATION | 184,436 | 184,436 | ..... |
| 460 | TRAINING SUPPORT | 223,159 | 223,159 | ..... |
| | RECRUITING, AND OTHER TRAINING AND EDUCATION | | | |
| 470 | RECRUITING AND ADVERTISING | 181,086 | 181,086 | ..... |
| 480 | OFF-DUTY AND VOLUNTARY EDUCATION | 96,006 | 96,006 | ..... |
| 490 | CIVILIAN EDUCATION AND TRAINING | 72,083 | 72,083 | ..... |
| 500 | JUNIOR ROTC | 54,156 | 55,106 | + 950 |
| | TOTAL, BUDGET ACTIVITY 3 | 1,995,288 | 1,911,738 | - 83,550 |
| | BUDGET ACTIVITY 4: ADMIN & SERVICEWIDE ACTIVITIES | | | |
| | SERVICEWIDE SUPPORT | | | |
| 510 | ADMINISTRATION | 1,089,964 | 1,069,964 | - 20,000 |
| 530 | CIVILIAN MANPOWER AND PERSONNEL MANAGEMENT | 164,074 | 164,074 | ..... |
| 540 | MILITARY MANPOWER AND PERSONNEL MANAGEMENT | 418,350 | 418,350 | ..... |
| | LOGISTICS OPERATIONS AND TECHNICAL SUPPORT | | | |
| 580 | SERVICEWIDE TRANSPORTATION | 167,106 | 167,106 | ..... |
| 600 | PLANNING, ENGINEERING AND PROGRAM SUPPORT | 333,556 | 336,556 | + 3,000 |
| 610 | ACQUISITION, LOGISTICS AND OVERSIGHT | 663,690 | 663,690 | ..... |
| | SECURITY PROGRAMS | | | |
| 650 | NAVAL INVESTIGATIVE SERVICE | 705,087 | 705,087 | ..... |
| | OTHER PROGRAMS | | | |
| | OTHER PROGRAMS | 574,994 | 570,494 | - 4,500 |
| | TOTAL, BUDGET ACTIVITY 4 | 4,116,821 | 4,095,321 | - 21,500 |
| | LONG TERM TEMP DUTY WAIVERS ..... | ..... | 1,400 | + 1,400 |
| | PRICING ADJUSTMENT ..... | ..... | - 75,000 | - 75,000 |
| | PL115-68 IMPLEMENTATION ..... | ..... | 1,000 | + 1,000 |
| | TOTAL, OPERATION AND MAINTENANCE, NAVY | 49,003,633 | 47,296,183 | - 1,707,450 |

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|--------|--|----------------------|--------------------------|-----------------------------|
| 1A1A | Mission and Other Flight Operations | 5,372,399 | 4,772,399 | − 600,000 |
| | Maintain program affordability: Projected underexecution | | | − 100,000 |
| | Transfer: From Title II to Title IX for OCO Operations .. | | | − 500,000 |
| 1A4N | Air Systems Support | 682,379 | 670,379 | − 12,000 |
| | Maintain program affordability: Unjustified growth | | | − 12,000 |
| 1B1B | Mission and Other Ship Operations | 4,439,566 | 3,819,566 | − 620,000 |
| | Maintain program affordability: Unjustified growth | | | − 120,000 |
| | Transfer: From Title II to Title IX for OCO Operations .. | | | − 500,000 |
| 1B4B | Ship Depot Maintenance | 8,751,526 | 8,141,526 | − 610,000 |
| | Transfer: To Other Procurement, Navy for the USS BOISE, USS NEW YORK and USS GUNSTON HALL availabilities | | | − 610,000 |
| 1C1C | Combat Communications and Electronic Warfare | 1,349,593 | 1,343,293 | − 6,300 |
| | Improving funds management: Remove one-time fiscal year 2018 increases | | | − 25,000 |
| | Program increase: SOUTHCOM ISR requirements | | | + 18,700 |
| 1C4C | Warfare Tactics | 632,446 | 617,446 | − 15,000 |
| | Maintain program affordability: Unjustified growth | | | − 15,000 |
| 1D7D | Other Weapon Systems Support | 494,101 | 474,101 | − 20,000 |
| | Classified program adjustment | | | − 20,000 |
| BSM1 | Sustainment, Restoration and Modernization | 2,040,389 | 2,390,389 | + 350,000 |
| | Program increase | | | + 350,000 |
| BSS1 | Base Operating Support | 4,414,753 | 4,418,253 | + 3,500 |
| | Maintain program affordability: Unjustified growth | | | − 27,000 |
| | Program increase: Aqueous foam disposal and replacement | | | + 28,000 |
| | Program increase: Amphibious readiness group planning and design | | | + 1,500 |
| | Program increase: Prevention of child abuse and training on safe childcare practices | | | + 1,000 |
| 3A3J | Reserve Officers Training Corps | 149,687 | 151,187 | + 1,500 |
| | Program increase: Navy ROTC | | | + 1,500 |
| 3B1K | Specialized Skill Training | 879,557 | 793,557 | − 86,000 |
| | Maintain program affordability: Ready, Relevant Learning funding ahead of need | | | − 86,000 |
| 3C5L | Junior ROTC | 54,156 | 55,106 | + 950 |
| | Program increase | | | + 950 |
| 4A1M | Administration | 1,089,964 | 1,069,964 | − 20,000 |
| | Improving funds management: Program decrease unaccounted for | | | − 20,000 |
| 4B2N | Planning, Engineering and Program Support | 333,556 | 336,556 | + 3,000 |
| | Program increase: Alternative energy | | | + 3,000 |
| 999 | Classified Programs | 574,994 | 570,494 | − 4,500 |
| | Classified program adjustment | | | − 4,500 |
| UNDIST | Program increase: Public Law 115–68 implementation at Combatant Commands | | 1,000 | + 1,000 |
| UNDIST | Program increase: Joint travel regulation–long term temporary duty waivers | | 1,400 | + 1,400 |
| UNDIST | Improving funds management: Navy supply management pricing adjustment to reflect correct rates | | − 75,000 | − 75,000 |

Public Shipyard Availabilities.—The Committee urges the Navy to further workforce development at each of its public shipyards and continue to invest in its Shipyard Infrastructure Optimization Plan, which would address infrastructure requirements necessary to support maintenance availabilities and the workforce at the pub-

lic shipyards. Additionally, the Committee directs the Secretary of the Navy to notify the congressional defense committees not later than 90 days before diverting from a public shipyard any currently scheduled surface ship or submarine availability. The notification shall include a justification of why the availability cannot be supported in the public shipyard without affecting Navy readiness and an explanation of the measures the Navy has taken to mitigate any harm to the operations, workload, and workforce development of the public shipyard that may result from diverting the availability.

Chief of Naval Air Training.—The Committee understands the critical training requirement and pilot shortfall that the Department of Defense is experiencing and encourages the Secretary of the Navy to seek alternate airfields, to include in-land locations, to expand training opportunities.

Naval Shipyard Apprentice Program.—The Committee directs that during fiscal year 2019 the Navy shall induct classes of no fewer than 100 apprentices, respectively, at each of the naval shipyards. The Committee further directs the Navy to include the costs of the fiscal year 2020 class of apprentices in its budget request.

U.S. Coast Guard.—The Committee is aware that Department of Defense [DOD] regulations currently restrict DOD mission appropriated funded activities from offering reimbursable rates to non-DOD agencies. This restriction forces the Navy to charge the U.S. Coast Guard fully burdened rates for drydocking services at Navy shipyards rather than reimbursable rates. Therefore, the Committee directs that funds appropriated under Operation and Maintenance, Navy may be used to pay overhead costs incurred by a Naval Shipyard when drydocking U.S. Coast Guard ships.

Advanced Skills Management Legacy System Upgrades.—The Committee is concerned that the Navy is not giving full consideration to commercial-off-the-shelf software solutions. The Secretary of the Navy is encouraged to use the best value procurement methods when upgrading legacy software systems.

Civilian Hiring Delays at Public Shipyards.—The Committee is aware that the Office of Civilian Human Resources has encountered extensive delays in processing new applicants and potential hires for the Department of the Navy. The Committee urges the Secretary of the Navy to increase awareness of civilian hiring needs at public shipyards and assess current timelines for processing new applicants and hires in order to avoid an impact on shipyard operations that may result in delays in completing submarine maintenance availabilities.

Fuel Depot Monitoring Enhancements.—The Committee encourages the Secretary of the Navy to work with local and State governments and willing private landowners to enhance groundwater monitoring on non-Federal lands surrounding Navy fuel storage facilities and depots to improve public confidence in the Navy's stewardship of groundwater and other environmental resources. The Committee further urges the Secretary of the Navy to prioritize this enhanced groundwater monitoring at its oldest fuel storage facilities and depots that have a documented history of fuel leaks.

National Oceanic and Atmospheric Administration Marine Operation Facilities.—The Consolidated Appropriations Act, 2018 (Public Law 115–141) directed the Secretary of the Navy to work with

the National Oceanic and Atmospheric Administration [NOAA] in order for NOAA to provide a report to the Commerce, Justice, Science Appropriations Subcommittee outlining the cost, scope, and timeline for constructing and outfitting new berthing facilities in Newport, Rhode Island by May 23, 2018. The language further directed NOAA to outline its partnership with the United States Navy and the United States Coast Guard on the associated shared responsibilities for constructing and using this facility. The Committee notes that this reporting requirement is overdue and expects its prompt delivery. In the meantime, the Committee encourages the Secretary of the Navy to consider funding planning and design activities for the pier at Naval Station Newport in fiscal year 2019 from within the Sustainment, Restoration and Modernization budget line item.

OPERATION AND MAINTENANCE, MARINE CORPS

| | |
|--------------------------------|-----------------|
| Appropriations, 2018 | \$6,605,546,000 |
| Budget estimate, 2019 | 6,832,510,000 |
| Committee recommendation | 6,372,000,000 |

The Committee recommends an appropriation of \$6,372,000,000. This is \$460,510,000 below the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table summarizes the budget estimate for this appropriation, the Committee recommendation, and the Committee recommended adjustments to the budget estimate:

(In thousands of dollars)

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|---|----------------------|--------------------------|-----------------------------|
| | OPERATION AND MAINTENANCE, MARINE CORPS | | | |
| | BUDGET ACTIVITY 1: OPERATING FORCES | | | |
| | EXPEDITIONARY FORCES | | | |
| 10 | OPERATIONAL FORCES | 873,320 | 637,320 | - 236,000 |
| 20 | FIELD LOGISTICS | 1,094,187 | 1,094,187 | ..... |
| 30 | DEPOT MAINTENANCE | 314,182 | 314,182 | ..... |
| | USMC PREPOSITIONING | | | |
| 40 | MARITIME PREPOSITIONING | 98,136 | 98,136 | ..... |
| | COMBAT OPERATIONS/SUPPORT | | | |
| 50 | CYBERSPACE ACTIVITIES | 183,546 | 183,546 | ..... |
| | BASE SUPPORT | | | |
| 60 | FACILITIES SUSTAINMENT, RESTORATION & MODERNIZATION | 832,636 | 832,636 | ..... |
| 70 | BASE OPERATING SUPPORT | 2,151,390 | 1,963,490 | - 187,900 |
| | TOTAL, BUDGET ACTIVITY 1 | 5,547,397 | 5,123,497 | - 423,900 |
| | BUDGET ACTIVITY 3: TRAINING AND RECRUITING | | | |
| | ACCESSION TRAINING | | | |
| 80 | RECRUIT TRAINING | 16,453 | 16,453 | ..... |
| 90 | OFFICER ACQUISITION | 1,144 | 1,144 | ..... |
| | BASIC SKILLS AND ADVANCED TRAINING | | | |
| 100 | SPECIALIZED SKILLS TRAINING | 106,360 | 106,360 | ..... |
| 110 | PROFESSIONAL DEVELOPMENT EDUCATION | 46,096 | 46,096 | ..... |
| 120 | TRAINING SUPPORT | 389,751 | 389,751 | ..... |
| | RECRUITING AND OTHER TRAINING EDUCATION | | | |
| 130 | RECRUITING AND ADVERTISING | 201,662 | 201,662 | ..... |

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|---|----------------------|--------------------------|-----------------------------|
| 140 | OFF-DUTY AND VOLUNTARY EDUCATION | 32,461 | 32,461 | ..... |
| 150 | JUNIOR ROTC | 24,217 | 24,607 | + 390 |
| | TOTAL, BUDGET ACTIVITY 3 | 818,144 | 818,534 | + 390 |
| | BUDGET ACTIVITY 4: ADMIN & SERVICEWIDE ACTIVITIES | | | |
| | SERVICEWIDE SUPPORT | | | |
| 160 | SERVICEWIDE TRANSPORTATION | 29,735 | 29,735 | ..... |
| 170 | ADMINISTRATION | 386,375 | 366,375 | - 20,000 |
| | SECURITY PROGRAMS | | | |
| | SECURITY PROGRAMS | 50,859 | 50,859 | ..... |
| | TOTAL, BUDGET ACTIVITY 4 | 466,969 | 446,969 | - 20,000 |
| | OVERESTIMATION OF CIVILIAN FTE TARGETS | | - 17,000 | - 17,000 |
| | TOTAL, OPERATION AND MAINTENANCE, MARINE CORPS | 6,832,510 | 6,372,000 | - 460,510 |

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|--------|--|----------------------|--------------------------|-----------------------------|
| 1A1A | Operational Forces | 873,320 | 637,320 | - 236,000 |
| | Improving funds management: Remove one-time fiscal year 2018 increase | | | - 25,000 |
| | Maintain program affordability: Unjustified growth | | | - 16,000 |
| | Program increase: Marine hearing enhancement and protection | | | + 5,000 |
| | Transfer: From Title II to Title IX for OCO Operations | | | - 200,000 |
| BSS1 | Base Operating Support | 2,151,390 | 1,963,490 | - 187,900 |
| | Improving funds management: Program decrease unaccounted for | | | - 35,000 |
| | Program increase: Prevention of child abuse and training on safe childcare practices | | | + 1,000 |
| | Transfer: From Title II to Title IX for OCO Operations | | | - 153,900 |
| 3C3F | Junior ROTC | 24,217 | 24,607 | + 390 |
| | Program increase | | | + 390 |
| 4A4G | Administration | 386,375 | 366,375 | - 20,000 |
| | Maintain program affordability: Unjustified growth | | | - 20,000 |
| UNDIST | Improving funds management: Overestimation of civilian FTE | | - 17,000 | - 17,000 |

Marine Corps Civilian Personnel.—The Committee is aware that the Marine Corps operates under a Manage to Payroll concept that focuses on a funding level for civilian labor and adjusts the Full Time Equivalent [FTE] level to reflect the estimated number of workyears that funding level will afford. This is unlike the other military services where the civilian personnel funding estimates are built on the workload requirements. To better understand this concept, the Committee directs the Government Accountability Office to provide the congressional defense committees a report not later than 90 days after enactment of this act on the details of how the Marine Corps develops its civilian labor requirements (both FTEs and funding). The report should examine the benefits and shortfalls of this concept and make recommendations to either continue or change this approach.

OPERATION AND MAINTENANCE, AIR FORCE

Appropriations, 2018 \$39,544,193,000
 Budget estimate, 2019 42,060,568,000
 Committee recommendation 40,775,374,000

The Committee recommends an appropriation of \$40,775,374,000.
 This is \$1,285,194,000 below the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table summarizes the budget estimate for this appropriation, the Committee recommendation, and the Committee recommended adjustments to the budget estimate:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|---|----------------------|--------------------------|-----------------------------|
| | OPERATION AND MAINTENANCE, AIR FORCE | | | |
| | BUDGET ACTIVITY 1: OPERATING FORCES | | | |
| | AIR OPERATIONS | | | |
| 10 | PRIMARY COMBAT FORCES | 758,178 | 758,178 | ..... |
| 20 | COMBAT ENHANCEMENT FORCES | 1,509,027 | 1,227,027 | - 282,000 |
| 30 | AIR OPERATIONS TRAINING | 1,323,330 | 1,280,730 | - 42,600 |
| 40 | DEPOT PURCHASE EQUIPMENT MAINTENANCE | 3,511,830 | 2,994,830 | - 517,000 |
| 50 | FACILITIES SUSTAINMENT, RESTORATION & MODERNIZATION | 2,892,705 | 2,917,705 | + 25,000 |
| 60 | CONTRACTOR LOGISTICS SUPPORT AND SYSTEM SUPPORT | 7,613,084 | 7,848,084 | + 235,000 |
| 70 | FLYING HOUR PROGRAM | 4,345,208 | 3,685,208 | - 660,000 |
| 80 | BASE OPERATING SUPPORT | 5,989,215 | 6,016,115 | + 26,900 |
| | COMBAT RELATED OPERATIONS | | | |
| 90 | GLOBAL C3I AND EARLY WARNING | 928,023 | 928,023 | ..... |
| 100 | OTHER COMBAT OPERATIONS SUPPORT PROGRAMS | 1,080,956 | 1,080,956 | ..... |
| 110 | CYBERSPACE ACTIVITIES | 879,032 | 813,032 | - 66,000 |
| | SPACE OPERATIONS | | | |
| 130 | LAUNCH FACILITIES | 183,777 | 183,777 | ..... |
| 140 | SPACE CONTROL SYSTEMS | 404,072 | 404,072 | ..... |
| | COCOM | | | |
| 170 | US NORTHCOM/NORAD | 187,375 | 187,375 | ..... |
| 180 | US STRATCOM | 529,902 | 529,902 | ..... |
| 190 | US CYBERCOM | 329,474 | 329,474 | ..... |
| 200 | US CENTCOM | 166,024 | 166,024 | ..... |
| 210 | US SOCOM | 723 | 723 | ..... |
| 220 | US TRANSCOM | 535 | 535 | ..... |
| | OPERATING FORCES CLASSIFIED PROGRAMS | | | |
| | | 1,164,810 | 1,158,410 | - 6,400 |
| | TOTAL, BUDGET ACTIVITY 1 | 33,797,280 | 32,510,180 | - 1,287,100 |
| | BUDGET ACTIVITY 2: MOBILIZATION | | | |
| | MOBILITY OPERATIONS | | | |
| 230 | AIRLIFT OPERATIONS | 1,307,695 | 1,157,695 | - 150,000 |
| 240 | MOBILIZATION PREPAREDNESS | 144,417 | 144,417 | ..... |
| | TOTAL, BUDGET ACTIVITY 2 | 1,452,112 | 1,302,112 | - 150,000 |
| | BUDGET ACTIVITY 3: TRAINING AND RECRUITING | | | |
| | ACCESSION TRAINING | | | |
| 280 | OFFICER ACQUISITION | 133,187 | 133,187 | ..... |
| 290 | RECRUIT TRAINING | 25,041 | 25,041 | ..... |
| 300 | RESERVE OFFICER TRAINING CORPS (ROTC) | 117,338 | 117,338 | ..... |
| | BASIC SKILLS AND ADVANCED TRAINING | | | |
| 330 | SPECIALIZED SKILL TRAINING | 401,996 | 401,996 | ..... |
| 340 | FLIGHT TRAINING | 477,064 | 477,064 | ..... |

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|---|----------------------|--------------------------|-----------------------------|
| 350 | PROFESSIONAL DEVELOPMENT EDUCATION | 276,423 | 276,423 | ..... |
| 360 | TRAINING SUPPORT | 95,948 | 95,948 | ..... |
| | RECRUITING, AND OTHER TRAINING AND EDUCATION | | | |
| 380 | RECRUITING AND ADVERTISING | 154,530 | 154,530 | ..... |
| 390 | EXAMINING | 4,132 | 4,132 | ..... |
| 400 | OFF DUTY AND VOLUNTARY EDUCATION | 223,150 | 223,150 | ..... |
| 410 | CIVILIAN EDUCATION AND TRAINING | 209,497 | 209,497 | ..... |
| 420 | JUNIOR ROTC | 59,908 | 60,908 | + 1,000 |
| | TOTAL, BUDGET ACTIVITY 3 | 2,178,214 | 2,179,214 | + 1,000 |
| | BUDGET ACTIVITY 4: ADMIN & SERVICEWIDE ACTIVITIES | | | |
| | LOGISTICS OPERATIONS | | | |
| 430 | LOGISTICS OPERATIONS | 681,788 | 681,788 | ..... |
| 440 | TECHNICAL SUPPORT ACTIVITIES | 117,812 | 117,812 | ..... |
| | SERVICEWIDE ACTIVITIES | | | |
| 480 | ADMINISTRATION | 953,102 | 933,102 | - 20,000 |
| 490 | SERVICEWIDE COMMUNICATIONS | 358,389 | 424,389 | + 66,000 |
| 500 | OTHER SERVICEWIDE ACTIVITIES | 1,194,862 | 1,195,862 | + 1,000 |
| 510 | CIVIL AIR PATROL CORPORATION | 29,594 | 33,600 | + 4,006 |
| | SUPPORT TO OTHER NATIONS | | | |
| 530 | INTERNATIONAL SUPPORT | 74,959 | 74,959 | ..... |
| | SECURITY PROGRAMS | | | |
| | SECURITY PROGRAMS | 1,222,456 | 1,178,956 | - 43,500 |
| | TOTAL, BUDGET ACTIVITY 4 | 4,632,962 | 4,640,468 | + 7,506 |
| | PL115-68 IMPLEMENTATION ..... | ..... | 1,000 | + 1,000 |
| | 7DAB FOR INDOPACOM ..... | ..... | 142,400 | + 142,400 |
| | TOTAL, OPERATION AND MAINTENANCE, AIR FORCE | 42,060,568 | 40,775,374 | - 1,285,194 |

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|--|----------------------|--------------------------|-----------------------------|
| 011C | Combat Enhancement Forces | 1,509,027 | 1,227,027 | - 282,000 |
| | Reduce duplication: Air Force-identified asset in title II for Battlefield Airborne Communications Node (BACN) due to adequate title IX funding. Partial transfer of this asset to O&M AF SAG 11Z and Military Personnel, Air Force for transition to the Operational Camouflage Pattern (OCP) uniform at the request of the Air Force ..... | ..... | ..... | - 282,000 |
| 011D | Air Operations Training (OJT, Maintain Skills) | 1,323,330 | 1,280,730 | - 42,600 |
| | Maintain program affordability: Unjustified growth ..... | ..... | ..... | - 60,000 |
| | Program increase: Training range upgrades to support F-35A beddown ..... | ..... | ..... | + 17,400 |
| 011M | Depot Purchase Equipment Maintenance | 3,511,830 | 2,994,830 | - 517,000 |
| | Maintain program affordability: Unjustified growth ..... | ..... | ..... | - 17,000 |
| | Transfer: From Title II to Title IX for OCO Operations .. | ..... | ..... | - 500,000 |
| 011R | Facilities Sustainment, Restoration & Modernization | 2,892,705 | 2,917,705 | + 25,000 |
| | Program increase: Additional demo ..... | ..... | ..... | + 25,000 |
| 011W | Contractor Logistics Support and System Support | 7,613,084 | 7,848,084 | + 235,000 |
| | Maintain program affordability: Unjustified growth ..... | ..... | ..... | - 90,000 |
| | Program increase ..... | ..... | ..... | + 300,000 |

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|--------|---|----------------------|--------------------------|-----------------------------|
| | Program increase: F-35 sustainment to accelerate depot component repair capability | | | + 25,000 |
| 011Y | Flying Hour Program | 4,345,208 | 3,685,208 | - 660,000 |
| | Maintain program affordability: Unjustified growth | | | - 160,000 |
| | Transfer: From Title II to Title IX for OCO Operations .. | | | - 500,000 |
| 011Z | Base Support | 5,989,215 | 6,016,115 | + 26,900 |
| | Maintain program affordability: Unjustified growth | | | - 14,000 |
| | Transfer: From Air Force-identified asset in SAG 11C to be used for fiscal year 2019 costs associated with the transition to the Operational Camouflage Pattern (OCP) uniform at the request of the Air Force | | | + 35,900 |
| | Program increase: Civil engineers equipment | | | + 5,000 |
| 012D | Cyberspace Activities | 879,032 | 813,032 | - 66,000 |
| | Transfer: Air Force-requested transfer to SAG 42B for Cloud Migration costs | | | - 66,000 |
| 999 | Classified Programs | 1,164,810 | 1,158,410 | - 6,400 |
| | Classified program adjustment | | | - 6,400 |
| 021A | Airlift Operations | 1,307,695 | 1,157,695 | - 150,000 |
| | Maintain program affordability: Unjustified growth | | | - 150,000 |
| 033E | Junior ROTC | 59,908 | 60,908 | + 1,000 |
| | Program increase | | | + 1,000 |
| 042A | Administration | 953,102 | 933,102 | - 20,000 |
| | Maintain program affordability: Unjustified growth | | | - 20,000 |
| 042B | Service-wide Communications | 358,389 | 424,389 | + 66,000 |
| | Transfer: Air Force-requested transfer from SAG 12D for Cloud Migration costs | | | + 66,000 |
| 042G | Other Service-wide Activities | 1,194,862 | 1,195,862 | + 1,000 |
| | Program increase: Prevention of child abuse and training on safe childcare practices | | | + 1,000 |
| 042I | Civil Air Patrol | 29,594 | 33,600 | + 4,006 |
| | Program increase | | | + 4,006 |
| 999 | Classified Programs | 1,222,456 | 1,178,956 | - 43,500 |
| | Classified program adjustment | | | - 3,500 |
| | Maintain program affordability: Unjustified growth for security clearance investigations | | | - 40,000 |
| UNDIST | Program increase: Public Law 115-68 implementation at Combatant Commands | | 1,000 | + 1,000 |
| UNDIST | Program increase: Procurement of 7 DABS for INDOFACOM | | 142,400 | + 142,400 |

Properly Budgeting for Full Requirements.—During the review of the fiscal year 2018 President’s budget request, the Air Force revealed to the Committee that it starts each fiscal year with nearly \$1,000,000,000 in programmatic shortfalls in its operation and maintenance account for must-pay mission bills. The increases in readiness funding provided by the Bipartisan Budget Act of 2018 have allowed the Air Force to close that gap; however, the Committee continues to discover examples of the Air Force not programming or budgeting for the full amount of known requirements. This is not only evident in the larger programs such as Operational Support Airlift or Base Operations Support, but also very specific smaller programs such as the operational funding for the C-130H Weapons Instructor Course and the Advanced Airlift Tactics Training Center hosted by the 139th Airlift Wing with the Missouri Air National Guard. The Committee understands that the 139th Airlift Wing requirements have historically been sourced exclusively during the year of execution at the expense of other funded programs. Failure to properly budget resources for known requirements places unnecessary burdens on smaller programs, increases the prob-

ability of reprogramming requests, and often leads to an application of a tax against mission accounts to cover under-programmed requirements. The Committee recognizes the efforts made to improve the operation and maintenance budget formulation process to match historical execution and directs the Secretary of the Air Force to continue to emphasize properly programming resources in order to fully fund known requirements for the active, guard and reserve components.

Air Force Associate Units.—The Committee recognizes the importance of Total Force Integration within the Air Force and certain Air National Guard units who have a critical role in construction and engineering. This integration ensures cross-component interoperability to fill current and future mission requirements. The Committee encourages the Air Force to continue placing an increased focus on actively managing associate units between the Air National Guard and the active duty component and to establish robust memorandum of agreements to ensure units are not left without equipment when the active component deploys.

OPERATION AND MAINTENANCE, DEFENSE-WIDE

| | |
|--------------------------------|------------------|
| Appropriations, 2018 | \$34,059,257,000 |
| Budget estimate, 2019 | 36,352,625,000 |
| Committee recommendation | 35,662,783,000 |

The Committee recommends an appropriation of \$35,662,783,000. This is \$689,842,000 below the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table summarizes the budget estimate for this appropriation, the Committee recommendation, and the Committee recommended adjustments to the budget estimate:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|--|----------------------|--------------------------|-----------------------------|
| | OPERATION AND MAINTENANCE, DEFENSE-WIDE | | | |
| | BUDGET ACTIVITY 1: OPERATING FORCES | | | |
| 10 | JOINT CHIEFS OF STAFF | 430,215 | 430,995 | + 780 |
| 20 | OFFICE OF THE SECRETARY OF DEFENSE | 602,186 | 602,186 | ..... |
| 40 | SPECIAL OPERATIONS COMMAND | 5,389,250 | 5,308,115 | − 81,135 |
| | TOTAL, BUDGET ACTIVITY 1 | 6,421,651 | 6,341,296 | − 80,355 |
| | BUDGET ACTIVITY 3: TRAINING AND RECRUITING | | | |
| 50 | DEFENSE ACQUISITION UNIVERSITY | 181,601 | 181,601 | ..... |
| 60 | JOINT CHIEFS OF STAFF RECRUITING, AND OTHER TRAINING AND EDUCATION | 96,565 | 96,565 | ..... |
| 70 | SPECIAL OPERATIONS COMMAND | 370,583 | 370,583 | ..... |
| | TOTAL, BUDGET ACTIVITY 3 | 648,749 | 648,749 | ..... |
| | BUDGET ACTIVITY 4: ADMIN & SERVICEWIDE ACTIVITIES | | | |
| 80 | CIVIL MILITARY PROGRAMS | 166,131 | 204,131 | + 38,000 |
| 100 | DEFENSE CONTRACT AUDIT AGENCY | 625,633 | 625,633 | ..... |
| 110 | DEFENSE CONTRACT MANAGEMENT AGENCY | 1,465,354 | 1,465,354 | ..... |
| 120 | DEFENSE HUMAN RESOURCES ACTIVITY | 859,923 | 910,923 | + 51,000 |
| 130 | DEFENSE INFORMATION SYSTEMS AGENCY | 2,106,930 | 2,046,930 | − 60,000 |
| 150 | DEFENSE LEGAL SERVICES AGENCY | 27,403 | 27,403 | ..... |
| 160 | DEFENSE LOGISTICS AGENCY | 379,275 | 397,775 | + 18,500 |
| 170 | DEFENSE MEDIA ACTIVITY | 207,537 | 217,537 | + 10,000 |

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|---|----------------------|--------------------------|-----------------------------|
| 180 | DEFENSE PERSONNEL ACCOUNTING AGENCY | 130,696 | 130,696 | ..... |
| 190 | DEFENSE SECURITY COOPERATION AGENCY | 754,711 | 686,744 | - 67,967 |
| 200 | DEFENSE SECURITY SERVICE | 789,175 | 772,816 | - 16,359 |
| 220 | DEFENSE TECHNOLOGY SECURITY AGENCY | 34,951 | 34,951 | ..... |
| 230 | DEFENSE THREAT REDUCTION AGENCY | 553,329 | 545,840 | - 7,489 |
| 250 | DEPARTMENT OF DEFENSE EDUCATION ACTIVITY | 2,892,284 | 2,855,239 | - 37,045 |
| 260 | MISSILE DEFENSE AGENCY | 499,817 | 499,817 | ..... |
| 280 | OFFICE OF ECONOMIC ADJUSTMENT | 70,035 | 70,035 | ..... |
| 290 | OFFICE OF THE SECRETARY OF DEFENSE | 1,519,655 | 1,547,883 | + 28,228 |
| 300 | SPECIAL OPERATIONS COMMAND | 97,787 | 99,787 | + 2,000 |
| 310 | WASHINGTON HEADQUARTERS SERVICES | 456,407 | 454,727 | - 1,680 |
| | OTHER PROGRAMS | 15,645,192 | 15,104,857 | - 540,335 |
| | TOTAL, BUDGET ACTIVITY 4 | 29,282,225 | 28,699,078 | - 583,147 |
| | IMPACT AID | | 40,000 | + 40,000 |
| | IMPACT AID FOR CHILDREN WITH DISABILITIES | | 10,000 | + 10,000 |
| | HISTORICAL UNDEREXECUTION | | - 93,340 | - 93,340 |
| | SEXUAL TRAUMA TREATMENT PILOT PROGRAM | | 2,000 | + 2,000 |
| | VIETNAM DIOXIN REMEDIATION | | 15,000 | + 15,000 |
| | TOTAL, OPERATION AND MAINTENANCE, DEFENSE-WIDE | 36,352,625 | 35,662,783 | - 689,842 |

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|--|----------------------|--------------------------|-----------------------------|
| | Joint Chiefs of Staff | 430,215 | 430,995 | + 780 |
| | Program increase: Operational logistics exercise elements | | | + 2,500 |
| | Improving Funds Management: Civilian FTE pricing | | | - 1,720 |
| | Special Operations Command/Operating Forces | 5,389,250 | 5,308,115 | - 81,135 |
| | Maintain Program Affordability: Base support | | | - 8,400 |
| | Improving Funds Management: Civilian FTE pricing | | | - 14,785 |
| | Maintain Program Affordability: Unjustified growth for contract services | | | - 11,800 |
| | Maintain Program Affordability: Unjustified growth for TACLAN | | | - 18,150 |
| | Maintain Program Affordability: Unjustified growth for maintenance | | | - 20,000 |
| | Maintain Program Affordability: Unjustified growth for GM/CM | | | - 8,000 |
| | Civil Military Programs | 166,131 | 204,131 | + 38,000 |
| | Program increase: Innovative readiness training | | | + 10,000 |
| | Program increase: National Guard Youth Challenge | | | + 13,000 |
| | Program increase: STARBASE | | | + 15,000 |
| | Defense Human Resources Activity | 859,923 | 910,923 | + 51,000 |
| | Program increase: Beyond the Yellow Ribbon | | | + 20,000 |
| | Program increase: Defense critical language and culture program | | | + 6,000 |
| | Program increase: Special Victims' Counsel | | | + 25,000 |
| | Defense Information Systems Agency | 2,106,930 | 2,046,930 | - 60,000 |
| | Maintain Program Affordability: Unjustified growth for NBIS | | | - 60,000 |
| | Defense Logistics Agency | 379,275 | 397,775 | + 18,500 |
| | Program increase: AM-2 airfield landing matting | | | + 10,000 |
| | Program increase: Procurement technical assistance program | | | + 8,500 |

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|--------|---|----------------------|--------------------------|-----------------------------|
| | Defense Media Activity | 207,537 | 217,537 | + 10,000 |
| | Program increase: IP streaming | | | + 10,000 |
| | Defense Security Cooperation Agency | 754,711 | 686,744 | - 67,967 |
| | Maintain Program Affordability: Maintain level of effort—Regional Centers | | | - 3,000 |
| | Maintain Program Affordability: Maintain level of effort—Wales Initiative | | | - 4,000 |
| | Maintain Program Affordability: FTE overestimation—DSCA Headquarters | | | - 4,225 |
| | Maintain Program Affordability: Maintain level of effort—Defense Institution Reform Building | | | - 5,000 |
| | Maintain Program Affordability: Maintain level of effort—Security Cooperation | | | - 38,000 |
| | Maintain Program Affordability: Maintain level of effort—South East Asia Maritime Security Initiative | | | - 13,742 |
| | Defense Security Service | 789,175 | 772,816 | - 16,359 |
| | Improving Funds Management: Civilian FTE pricing | | | - 5,202 |
| | Maintain Program Affordability: Unjustified growth in travel | | | - 1,157 |
| | Maintain Program Affordability: Unjustified growth for PSSD | | | - 10,000 |
| | Defense Threat Reduction Agency | 553,329 | 545,840 | - 7,489 |
| | Improving Funds Management: Remove one-time costs | | | - 3,878 |
| | Maintain Program Affordability: JIDO mission enablers unjustified growth | | | - 3,611 |
| | Department of Defense Education Activity | 2,892,284 | 2,855,239 | - 37,045 |
| | Maintain Program Affordability: Unjustified growth for contract services | | | - 17,000 |
| | Improving Funds Management: Civilian FTE pricing | | | - 12,300 |
| | Improving Funds Management: Pricing adjustment | | | - 7,745 |
| | Office of the Secretary of Defense | 1,519,655 | 1,547,883 | + 28,228 |
| | Program increase: Artificial Intelligence | | | + 6,000 |
| | Program increase: CDC water contamination study and assessment | | | + 10,000 |
| | Program increase: Clearinghouse | | | + 1,000 |
| | Program increase: Defense Environmental International Cooperations | | | + 1,000 |
| | Program increase: Defense Fellows Program | | | + 10,000 |
| | Program increase: DOD emerging contaminants | | | + 1,000 |
| | Program increase: DOD environmental resiliency | | | + 1,000 |
| | Program increase: Readiness and environmental protection initiative | | | + 10,000 |
| | Maintain Program Affordability: Unjustified growth for civilian personnel | | | - 3,672 |
| | Maintain Program Affordability: Unjustified growth for contract services | | | - 8,100 |
| | Special Operations Command/Admin & Svc-wide Activities .. | 97,787 | 99,787 | + 2,000 |
| | Program increase: Defense critical language and culture program | | | + 2,000 |
| | Washington Headquarters Services | 456,407 | 454,727 | - 1,680 |
| | Improving Funds Management: Other Ops—Civilian FTE Pricing | | | - 1,680 |
| | Classified Programs | 15,645,192 | 15,104,857 | - 540,335 |
| | Classified adjustment | | | - 540,335 |
| UNDIST | Program increase: Impact aid for children with disabilities .. | | 10,000 | + 10,000 |
| UNDIST | Program increase: Impact aid for schools with military dependent students | | 40,000 | + 40,000 |
| UNDIST | Program increase: Sexual trauma treatment pilot program ... | | 2,000 | + 2,000 |
| UNDIST | Program increase: Vietnam dioxin remediation | | 15,000 | + 15,000 |
| UNDIST | Improving Funds Management: Historical Underexecution | | - 93,340 | - 93,340 |

Special Victims' Counsel Program.—The Committee remains concerned with the level of sexual assault in the military and supports

the Department’s continuing efforts to strengthen its sexual assault prevention and response program. The needs of victims of sexual assault for legal advice and guidance are particularly acute. To ensure that the Department continues to make progress protecting a victim’s confidentiality and ending alienation during the investigation and prosecution of their case, the Committee recommends \$25,000,000 for implementation of the Special Victims’ Counsel Program across the services.

Maritime Security Initiative.—The Committee supports the efforts of the Department of Defense to address Asia-Pacific security concerns and improve the maritime security of our partners and allies through the Southeast Asia Maritime Security Initiative [MSI]. MSI is a dedicated funding line that supports equipment, supplies and services, training, and small-scale construction to support the maritime security missions of partner military and security forces. The Committee recommends \$84,500,000 for fiscal year 2019 for MSI, a 30 percent increase over the 2018 enacted amount, but \$13,500,000 less than the fiscal year 2019 budget request. The Committee notes that the Department requested 2-year funding for all MSI and other security cooperation programs, but only 25 percent of such funding is appropriated as 2-year funding. As such, the reduction reflects the Committee’s expectation, based on prior year execution, that the Department will not be able to execute funding, planned to be spent in 2 years, in only 1 year.

Defense Finance and Accounting Service.—The Committee supports efforts to find efficiencies and reduce unnecessary costs within the Department of Defense, including both the military services and the defense agencies. However, there are concerns about efforts to close or realign Defense Finance and Accounting Services [DFAS] installations. Therefore, prior to transferring any functions or implementing civilian reductions at a DFAS installation, the Committee directs the Secretary of Defense to provide the congressional defense committees a written report on any plan to do so and the Secretary must certify to such committees that the plan would reduce costs, increase efficiencies, and maintain the timeline for auditability of financial statements.

Defense Language and National Security Education Office.—The Committee recognizes that, in partnership with universities across the country, the Defense Language and National Security Education Office provides critical college accredited training for service members and government officials in a number of languages and strategic cultures. The Committee encourages the Department of Defense to continue placing a high priority on these programs and designates the funding included in the fiscal year 2019 President’s budget request for the Language Training Centers as a congressional special interest item to ensure warfighters, both conventional and special operations forces, receive the language and culture training needed to complete their missions effectively.

OPERATION AND MAINTENANCE, ARMY RESERVE

| | |
|--------------------------------|-----------------|
| Appropriations, 2018 | \$2,877,104,000 |
| Budget estimate, 2019 | 2,916,909,000 |
| Committee recommendation | 2,854,909,000 |

The Committee recommends an appropriation of \$2,854,909,000. This is \$62,000,000 below the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table summarizes the budget estimate for this appropriation, the Committee recommendation, and the Committee recommended adjustments to the budget estimate:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|---|----------------------|--------------------------|-----------------------------|
| | OPERATION AND MAINTENANCE, ARMY RESERVE | | | |
| | BUDGET ACTIVITY 1: OPERATING FORCES | | | |
| | LAND FORCES | | | |
| 10 | MODULAR SUPPORT BRIGADES | 13,867 | 13,867 | ..... |
| 20 | ECHELONS ABOVE BRIGADES | 536,438 | 536,438 | ..... |
| 30 | THEATER LEVEL ASSETS | 113,225 | 113,225 | ..... |
| 40 | LAND FORCES OPERATIONS SUPPORT | 551,141 | 537,141 | - 14,000 |
| 50 | AVIATION ASSETS | 89,073 | 89,073 | ..... |
| | LAND FORCES READINESS | | | |
| 60 | FORCES READINESS OPERATIONS SUPPORT | 409,531 | 392,531 | - 17,000 |
| 70 | LAND FORCES SYSTEM READINESS | 101,411 | 101,411 | ..... |
| 80 | DEPOT MAINTENANCE | 60,114 | 60,114 | ..... |
| | LAND FORCES READINESS SUPPORT | | | |
| 90 | BASE OPERATIONS SUPPORT | 595,728 | 579,728 | - 16,000 |
| 100 | FACILITIES SUSTAINMENT, RESTORATION & MODERNIZATION | 304,658 | 304,658 | ..... |
| 110 | MANAGEMENT AND OPERATIONS HEADQUARTERS | 22,175 | 22,175 | ..... |
| | TOTAL, BUDGET ACTIVITY 1 | 2,797,361 | 2,750,361 | - 47,000 |
| | BUDGET ACTIVITY 4: ADMIN & SERVICEWIDE ACTIVITIES | | | |
| | ADMINISTRATION AND SERVICEWIDE ACTIVITIES | | | |
| 120 | SERVICEWIDE TRANSPORTATION | 11,832 | 11,832 | ..... |
| 130 | ADMINISTRATION | 18,218 | 18,218 | ..... |
| 140 | SERVICEWIDE COMMUNICATIONS | 25,069 | 25,069 | ..... |
| 150 | PERSONNEL/FINANCIAL ADMINISTRATION | 6,248 | 6,248 | ..... |
| 160 | RECRUITING AND ADVERTISING | 58,181 | 58,181 | ..... |
| | TOTAL, BUDGET ACTIVITY 4 | 119,548 | 119,548 | ..... |
| | OVERESTIMATION OF CIVILIAN FTE TARGETS ..... | ..... | - 15,000 | - 15,000 |
| | TOTAL, OPERATION AND MAINTENANCE, ARMY RESERVE | 2,916,909 | 2,854,909 | - 62,000 |

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|--------|--|----------------------|--------------------------|-----------------------------|
| 115 | Land Forces Operations Support | 551,141 | 537,141 | - 14,000 |
| | Maintain program affordability: Unjustified growth ..... | ..... | ..... | - 14,000 |
| 121 | Force Readiness Operations Support | 409,531 | 392,531 | - 17,000 |
| | Maintain program affordability: Unjustified growth ..... | ..... | ..... | - 17,000 |
| 131 | Base Operations Support | 595,728 | 579,728 | - 16,000 |
| | Improving funds management: Program decrease unaccounted for ..... | ..... | ..... | - 16,000 |
| UNDIST | Maintain program affordability: Overestimation of civilian FTE ..... | ..... | - 15,000 | - 15,000 |

OPERATION AND MAINTENANCE, NAVY RESERVE

| | |
|--------------------------------|-----------------|
| Appropriations, 2018 | \$1,069,707,000 |
| Budget estimate, 2019 | 1,027,006,000 |
| Committee recommendation | 1,018,006,000 |

The Committee recommends an appropriation of \$1,018,006,000. This is \$9,000,000 below the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table summarizes the budget estimate for this appropriation, the Committee recommendation, and the Committee recommended adjustments to the budget estimate:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|---|----------------------|--------------------------|-----------------------------|
| | OPERATION AND MAINTENANCE, NAVY RESERVE | | | |
| | BUDGET ACTIVITY 1: OPERATING FORCES | | | |
| | RESERVE AIR OPERATIONS | | | |
| 10 | MISSION AND OTHER FLIGHT OPERATIONS | 569,584 | 563,584 | - 6,000 |
| 20 | INTERMEDIATE MAINTENANCE | 6,902 | 6,902 | ..... |
| 30 | AIRCRAFT DEPOT MAINTENANCE | 109,776 | 109,776 | ..... |
| 40 | AIRCRAFT DEPOT OPERATIONS SUPPORT | 538 | 538 | ..... |
| 50 | AVIATION LOGISTICS | 18,888 | 18,888 | ..... |
| | RESERVE SHIP OPERATIONS | | | |
| 60 | SHIP OPERATIONAL SUPPORT AND TRAINING | 574 | 574 | ..... |
| | RESERVE COMBAT OPERATIONS SUPPORT | | | |
| 70 | COMBAT COMMUNICATIONS | 17,561 | 17,561 | ..... |
| 80 | COMBAT SUPPORT FORCES | 121,070 | 118,070 | - 3,000 |
| 90 | CYBERSPACE ACTIVITIES | 337 | 337 | ..... |
| | RESERVE WEAPONS SUPPORT | | | |
| 100 | ENTERPRISE INFORMATION TECHNOLOGY | 23,964 | 23,964 | ..... |
| | BASE OPERATING SUPPORT | | | |
| 110 | FACILITIES SUSTAINMENT, RESTORATION & MODERNIZATION | 36,356 | 36,356 | ..... |
| 120 | BASE OPERATING SUPPORT | 103,562 | 103,562 | ..... |
| | TOTAL, BUDGET ACTIVITY 1 | 1,009,112 | 1,000,112 | - 9,000 |
| | BUDGET ACTIVITY 4: ADMIN & SERVICEWIDE ACTIVITIES | | | |
| | ADMINISTRATION AND SERVICEWIDE ACTIVITIES | | | |
| 130 | ADMINISTRATION | 1,868 | 1,868 | ..... |
| 140 | MILITARY MANPOWER & PERSONNEL | 12,849 | 12,849 | ..... |
| 160 | ACQUISITION AND PROGRAM MANAGEMENT | 3,177 | 3,177 | ..... |
| | TOTAL, BUDGET ACTIVITY 4 | 17,894 | 17,894 | ..... |
| | TOTAL, OPERATION AND MAINTENANCE, NAVY RESERVE | 1,027,006 | 1,018,006 | - 9,000 |

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|--|----------------------|--------------------------|-----------------------------|
| 1A1A | Mission and Other Flight Operations | 569,584 | 563,584 | - 6,000 |
| | Maintain program affordability: Unjustified growth ..... | ..... | ..... | - 6,000 |
| 1C6C | Combat Support Forces | 121,070 | 118,070 | - 3,000 |

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|---|----------------------|--------------------------|-----------------------------|
| | Improving funds management: Remove one-time fiscal year 2018 increase ..... | ..... | ..... | - 3,000 |

OPERATION AND MAINTENANCE, MARINE CORPS RESERVE

| | |
|--------------------------------|---------------|
| Appropriations, 2018 | \$284,837,000 |
| Budget estimate, 2019 | 271,570,000 |
| Committee recommendation | 271,570,000 |

The Committee recommends an appropriation of \$271,570,000. This is equal to the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table summarizes the budget estimate for this appropriation, the Committee recommendation, and the Committee recommended adjustments to the budget estimate:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|--|----------------------|--------------------------|-----------------------------|
| | OPERATION AND MAINTENANCE, MARINE CORPS RESERVE | | | |
| | BUDGET ACTIVITY 1: OPERATING FORCES | | | |
| | EXPEDITIONARY FORCES | | | |
| 10 | OPERATING FORCES | 99,173 | 99,173 | ..... |
| 20 | DEPOT MAINTENANCE | 19,430 | 19,430 | ..... |
| 30 | FACILITIES SUSTAINMENT, RESTORATION & MODERNIZATION | 39,962 | 39,962 | ..... |
| 40 | BASE OPERATING SUPPORT | 101,829 | 101,829 | ..... |
| | TOTAL, BUDGET ACTIVITY 1 | 260,394 | 260,394 | ..... |
| | BUDGET ACTIVITY 4: ADMIN & SERVICEWIDE ACTIVITIES | | | |
| | ADMINISTRATION AND SERVICEWIDE ACTIVITIES | | | |
| 60 | ADMINISTRATION | 11,176 | 11,176 | ..... |
| | TOTAL, BUDGET ACTIVITY 4 | 11,176 | 11,176 | ..... |
| | TOTAL, OPERATION & MAINTENANCE, MARINE CORPS RESERVE | 271,570 | 271,570 | ..... |

OPERATION AND MAINTENANCE, AIR FORCE RESERVE

| | |
|--------------------------------|-----------------|
| Appropriations, 2018 | \$3,202,307,000 |
| Budget estimate, 2019 | 3,260,234,000 |
| Committee recommendation | 3,247,534,000 |

The Committee recommends an appropriation of \$3,247,534,000. This is \$12,700,000 below the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table summarizes the budget estimate for this appropriation, the Committee recommendation, and the Committee recommended adjustments to the budget estimate:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|--|----------------------|--------------------------|-----------------------------|
| | OPERATION AND MAINTENANCE, AIR FORCE RESERVE | | | |
| | BUDGET ACTIVITY 1: OPERATING FORCES | | | |
| | AIR OPERATIONS | | | |
| 10 | PRIMARY COMBAT FORCES | 1,853,437 | 1,803,437 | - 50,000 |
| 20 | MISSION SUPPORT OPERATIONS | 205,369 | 205,369 | ..... |
| 30 | DEPOT PURCHASE EQUIPMENT MAINTENANCE | 345,576 | 345,576 | ..... |
| 40 | FACILITIES SUSTAINMENT, RESTORATION & MODERNIZATION | 120,736 | 123,536 | + 2,800 |
| 50 | CONTRACTOR LOGISTICS SUPPORT AND SYSTEM SUPPORT | 241,239 | 284,239 | + 43,000 |
| 60 | BASE OPERATING SUPPORT | 385,922 | 385,922 | ..... |
| | TOTAL, BUDGET ACTIVITY 1 | 3,152,279 | 3,148,079 | - 4,200 |
| | BUDGET ACTIVITY 4: ADMIN & SERVICEWIDE ACTIVITIES | | | |
| | ADMINISTRATION AND SERVICEWIDE ACTIVITIES | | | |
| 70 | ADMINISTRATION | 71,188 | 71,188 | ..... |
| 80 | RECRUITING AND ADVERTISING | 19,429 | 19,429 | ..... |
| 90 | MILITARY MANPOWER AND PERSONNEL MANAGEMENT | 9,386 | 9,386 | ..... |
| 100 | OTHER PERSONNEL SUPPORT | 7,512 | 7,512 | ..... |
| 110 | AUDIOVISUAL | 440 | 440 | ..... |
| | TOTAL, BUDGET ACTIVITY 4 | 107,955 | 107,955 | ..... |
| | DECREASE UNACCOUNTED FOR ..... | ..... | - 8,500 | - 8,500 |
| | TOTAL, OPERATION AND MAINTENANCE, AIR FORCE RE-SERVE | 3,260,234 | 3,247,534 | - 12,700 |

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|--------|--|----------------------|--------------------------|-----------------------------|
| 011A | Primary Combat Forces | 1,853,437 | 1,803,437 | - 50,000 |
| | Maintain program affordability: Projected underexecution ..... | ..... | ..... | - 50,000 |
| 011R | Facilities Sustainment, Restoration & Modernization | 120,736 | 123,536 | + 2,800 |
| | Program increase: Additional demo ..... | ..... | ..... | + 2,800 |
| 011W | Contractor Logistics Support and System Support | 241,239 | 284,239 | + 43,000 |
| | Improving funds management: Program decrease unaccounted for ..... | ..... | ..... | - 9,000 |
| | Program increase ..... | ..... | ..... | + 52,000 |
| UNDIST | Improving funds management: Program decrease unaccounted for ..... | ..... | - 8,500 | - 8,500 |

OPERATION AND MAINTENANCE, ARMY NATIONAL GUARD

| | |
|--------------------------------|-----------------|
| Appropriations, 2018 | \$7,284,170,000 |
| Budget estimate, 2019 | 7,399,295,000 |
| Committee recommendation | 7,261,295,000 |

The Committee recommends an appropriation of \$7,261,295,000. This is \$138,000,000 below the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table summarizes the budget estimate for this appropriation, the Committee recommendation, and the Committee recommended adjustments to the budget estimate:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|---|----------------------|--------------------------|-----------------------------|
| | OPERATION AND MAINTENANCE, ARMY NATIONAL GUARD | | | |
| | BUDGET ACTIVITY 1: OPERATING FORCES | | | |
| | LAND FORCES | | | |
| 10 | MANEUVER UNITS | 810,269 | 790,269 | - 20,000 |
| 20 | MODULAR SUPPORT BRIGADES | 193,402 | 193,402 | ..... |
| 30 | ECHELONS ABOVE BRIGADE | 753,815 | 753,815 | ..... |
| 40 | THEATER LEVEL ASSETS | 84,124 | 84,124 | ..... |
| 50 | LAND FORCES OPERATIONS SUPPORT | 31,881 | 31,881 | ..... |
| 60 | AVIATION ASSETS | 973,874 | 973,874 | ..... |
| | LAND FORCES READINESS | | | |
| 70 | FORCE READINESS OPERATIONS SUPPORT | 784,086 | 765,286 | - 18,800 |
| 80 | LAND FORCES SYSTEMS READINESS | 51,353 | 51,353 | ..... |
| 90 | LAND FORCES DEPOT MAINTENANCE | 221,633 | 221,633 | ..... |
| | LAND FORCES READINESS SUPPORT | | | |
| 100 | BASE OPERATIONS SUPPORT | 1,129,942 | 1,108,942 | - 21,000 |
| 110 | FACILITIES SUSTAINMENT, RESTORATION & MODERNIZATION | 919,947 | 919,947 | ..... |
| 120 | MANAGEMENT AND OPERATIONAL HEADQUARTERS | 1,010,524 | 1,010,524 | ..... |
| | TOTAL, BUDGET ACTIVITY 1 | 6,964,850 | 6,905,050 | - 59,800 |
| | BUDGET ACTIVITY 4: ADMIN & SERVICEWIDE ACTIVITIES | | | |
| | ADMINISTRATION AND SERVICEWIDE ACTIVITIES | | | |
| 130 | SERVICEWIDE TRANSPORTATION | 10,017 | 10,017 | ..... |
| 140 | ADMINISTRATION | 72,746 | 76,546 | + 3,800 |
| 150 | SERVICEWIDE COMMUNICATIONS | 83,105 | 83,105 | ..... |
| 160 | MANPOWER MANAGEMENT | 10,678 | 10,678 | ..... |
| 170 | RECRUITING AND ADVERTISING | 254,753 | 254,753 | ..... |
| 180 | REAL ESTATE MANAGEMENT | 3,146 | 3,146 | ..... |
| | TOTAL, BUDGET ACTIVITY 4 | 434,445 | 438,245 | + 3,800 |
| | UNJUSTIFIED GROWTH ..... | ..... | - 88,000 | - 88,000 |
| | WILDFIRE TRAINING ..... | ..... | 6,000 | + 6,000 |
| | TOTAL, OPERATION & MAINTENANCE, ARMY NATIONAL GUARD | 7,399,295 | 7,261,295 | - 138,000 |

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|--|----------------------|--------------------------|-----------------------------|
| 111 | Maneuver Units | 810,269 | 790,269 | - 20,000 |
| | Maintain program affordability: Unjustified growth ..... | ..... | ..... | - 20,000 |
| 121 | Force Readiness Operations Support | 784,086 | 765,286 | - 18,800 |
| | Improving funds management: Program decrease unaccounted for ..... | ..... | ..... | - 20,000 |
| | Program increase: Advanced trauma training program ..... | ..... | ..... | + 1,200 |
| 131 | Base Operations Support | 1,129,942 | 1,108,942 | - 21,000 |
| | Improving funds management: Program decrease unaccounted for ..... | ..... | ..... | - 25,000 |

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|--------|--|----------------------|--------------------------|-----------------------------|
| | Program increase: Army National Guard preventative mental health program | | | + 4,000 |
| 431 | Administration | 72,746 | 76,546 | + 3,800 |
| | Program increase: State partnership program | | | + 3,800 |
| UNDIST | Maintain program affordability: Unjustified growth | | - 88,000 | - 88,000 |
| UNDIST | Program increase: National Guard wildfire training | | 6,000 | + 6,000 |

Advanced Turbine Engine Army Maintenance [ATEAM].—The ATEAM is a military special repair activity located on Fort Riley, Kansas. The ATEAM provides rebuilt-AGT 1500 engines and X1100 transmissions in support of the Army National Guard, Army Material Command, the United States Marine Corps, the Tank and Automotive Command [TACOM], as well as foreign military partners. The Committee is encouraged that the U.S. Army, National Guard Bureau, TACOM and Kansas National Guard are establishing a Memorandum of Agreement to facilitate the contracting of parts and equipment when workload obligations exceed the capacity of the Kansas National Guard. However, authorities for Title 32 Federal technicians are not well defined as it relates to work on foreign military sales contracts specifically, such as Full Up Power Pack repairs. The unclear policies have hampered the ability of the ATEAM to meet obligations and maintain workload.

Therefore, the Chief, National Guard Bureau, in coordination with the Secretary of the Army, is directed to conduct a review and establish policies that clearly define ATEAM authorities to fulfill obligations. The review shall inform a report addressing the following: (1) the duties and responsibilities of the U.S. Army, National Guard Bureau, TACOM and the Kansas National Guard for the ATEAM to meet obligations; (2) an ATEAM workforce transition plan and policies for work on foreign military sales contracts; and (3) a justification from the Chief, National Guard Bureau, in coordination with the Kansas National Guard, that certifies any change in the workforce of the ATEAM will not adversely affect the ATEAM's ability to meet existing and future obligations of the U.S. Army and foreign military sales contracts. The report and a briefing on its findings to the House and Senate Appropriations Committees shall be completed not later 60 days after the enactment of this act.

OPERATION AND MAINTENANCE, AIR NATIONAL GUARD

| | |
|--------------------------------|-----------------|
| Appropriations, 2018 | \$6,900,798,000 |
| Budget estimate, 2019 | 6,427,622,000 |
| Committee recommendation | 6,433,697,000 |

The Committee recommends an appropriation of \$6,433,697,000. This is \$6,075,000 above the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table summarizes the budget estimate for this appropriation, the Committee recommendation, and the Committee recommended adjustments to the budget estimate:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|---|----------------------|--------------------------|-----------------------------|
| | OPERATION AND MAINTENANCE, AIR NATIONAL GUARD | | | |
| | BUDGET ACTIVITY 1: OPERATING FORCES | | | |
| | AIR OPERATIONS | | | |
| 10 | AIRCRAFT OPERATIONS | 2,619,940 | 2,533,940 | - 86,000 |
| 20 | MISSION SUPPORT OPERATIONS | 623,265 | 631,540 | + 8,275 |
| 30 | DEPOT PURCHASE EQUIPMENT MAINTENANCE | 748,287 | 748,287 | ..... |
| 40 | FACILITIES SUSTAINMENT, RESTORATION & MODERNIZATION | 303,792 | 309,292 | + 5,500 |
| 50 | CONTRACTOR LOGISTICS SUPPORT AND SYSTEM SUPPORT | 1,061,759 | 1,061,759 | ..... |
| 60 | BASE OPERATING SUPPORT | 988,333 | 1,023,633 | + 35,300 |
| | TOTAL, BUDGET ACTIVITY 1 | 6,345,376 | 6,308,451 | - 36,925 |
| | BUDGET ACTIVITY 4: ADMIN & SERVICEWIDE ACTIVITIES | | | |
| | SERVICEWIDE ACTIVITIES | | | |
| 70 | ADMINISTRATION | 45,711 | 45,711 | ..... |
| 80 | RECRUITING AND ADVERTISING | 36,535 | 36,535 | ..... |
| | TOTAL, BUDGET ACTIVITY 4 | 82,246 | 82,246 | ..... |
| | DECREASE UNACCOUNTED FOR | | - 18,000 | - 18,000 |
| | BUYBACK 3 PMAI JSTARS AIRCRAFT | | 61,000 | + 61,000 |
| | TOTAL, OPERATION & MAINTENANCE, AIR NATIONAL GUARD | 6,427,622 | 6,433,697 | + 6,075 |

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|--------|--|----------------------|--------------------------|-----------------------------|
| 011F | Aircraft Operations | 2,619,940 | 2,533,940 | - 86,000 |
| | Maintain program affordability: Projected underexecution | | | - 80,000 |
| | Improving funds management: Program decrease unaccounted for | | | - 6,000 |
| 011G | Mission Support Operations | 623,265 | 631,540 | + 8,275 |
| | Improving funds management: Program decrease unaccounted for | | | - 15,000 |
| | Program increase: Disaster relief mobile kitchen trailers | | | + 7,800 |
| | Program increase: Air National Guard readiness training ranges | | | + 9,000 |
| | Program increase: Advanced trauma training program | | | + 1,800 |
| | Program increase: Air National Guard preventative mental health program | | | + 4,000 |
| | Program increase: State partnership program | | | + 675 |
| 011R | Facilities Sustainment, Restoration & Modernization | 303,792 | 309,292 | + 5,500 |
| | Program increase: KC-46A emergent requirements | | | + 5,500 |
| 011Z | Base Support | 988,333 | 1,023,633 | + 35,300 |
| | Transfer: Air National Guard-requested transfer for environmental projects from Environmental Restoration, Air Force account | | | + 11,000 |
| | Program increase: Cold weather aviation systems | | | + 5,300 |
| | Program increase: Sec. 315 of S.2987, Senate NDAA as reported | | | + 19,000 |
| UNDIST | Improving funds management: Program decrease unaccounted for | | - 18,000 | - 18,000 |
| UNDIST | Program increase: Buyback of 3 PMAI JSTARS aircraft | | 61,000 | + 61,000 |

U.S. COURT OF APPEALS FOR THE ARMED FORCES

| | |
|--------------------------------|--------------|
| Appropriations, 2018 | \$14,538,000 |
| Budget estimate, 2019 | 14,662,000 |
| Committee recommendation | 14,662,000 |

The Committee recommends an appropriation of \$14,662,000. This is equal to the budget estimate.

ENVIRONMENTAL RESTORATION, ARMY

| | |
|--------------------------------|---------------|
| Appropriations, 2018 | \$235,809,000 |
| Budget estimate, 2019 | 203,449,000 |
| Committee recommendation | 228,449,000 |

The Committee recommends an appropriation of \$228,449,000. This is \$25,000,000 above the budget estimate to address costs associated with remediating contamination caused by perfluorinated chemicals.

ENVIRONMENTAL RESTORATION, NAVY

| | |
|--------------------------------|---------------|
| Appropriations, 2018 | \$365,883,000 |
| Budget estimate, 2019 | 329,253,000 |
| Committee recommendation | 329,253,000 |

The Committee recommends an appropriation of \$329,253,000. This is equal to the budget estimate.

ENVIRONMENTAL RESTORATION, AIR FORCE

| | |
|--------------------------------|---------------|
| Appropriations, 2018 | \$352,549,000 |
| Budget estimate, 2019 | 296,808,000 |
| Committee recommendation | 365,808,000 |

The Committee recommends an appropriation of \$365,808,000. This is \$69,000,000 above the budget estimate due to a decrease of \$11,000,000 which is transferred to Operation and Maintenance, Air National Guard for execution and an additional \$80,000,000 provided to address costs associated with remediating contamination caused by perfluorinated chemicals.

ENVIRONMENTAL RESTORATION, DEFENSE-WIDE

| | |
|--------------------------------|--------------|
| Appropriations, 2018 | \$19,002,000 |
| Budget estimate, 2019 | 8,926,000 |
| Committee recommendation | 8,926,000 |

The Committee recommends an appropriation of \$8,926,000. This is equal to the budget estimate.

ENVIRONMENTAL RESTORATION, FORMERLY USED DEFENSE SITES

| | |
|--------------------------------|---------------|
| Appropriations, 2018 | \$248,673,000 |
| Budget estimate, 2019 | 212,346,000 |
| Committee recommendation | 212,346,000 |

The Committee recommends an appropriation of \$212,346,000. This is equal to the budget estimate.

OVERSEAS HUMANITARIAN, DISASTER, AND CIVIC AID

| | |
|--------------------------------|---------------|
| Appropriations, 2018 | \$129,900,000 |
| Budget estimate, 2019 | 107,663,000 |
| Committee recommendation | 107,663,000 |

The Committee recommends an appropriation of \$107,663,000. This is equal to the budget estimate.

COOPERATIVE THREAT REDUCTION ACCOUNT

| | |
|--------------------------------|---------------|
| Appropriations, 2018 | \$350,000,000 |
| Budget estimate, 2019 | 335,240,000 |
| Committee recommendation | 335,240,000 |

The Committee recommends an appropriation of \$335,240,000. This is equal to the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table summarizes the budget estimate for this appropriation, the Committee recommendation, and the Committee recommended adjustments to the budget estimate:

(In thousands of dollars)

| Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|--|----------------------|--------------------------|-----------------------------|
| COOPERATIVE THREAT REDUCTION | | | |
| Strategic Offensive Arms Elimination | 2,823 | 2,823 | ..... |
| Chemical Weapons Destruction | 5,446 | 5,446 | ..... |
| Biological Threat Reduction | 197,585 | 197,585 | ..... |
| Other Assessments/Admin Costs | 25,448 | 25,448 | ..... |
| Global Nuclear Security | 29,001 | 29,001 | ..... |
| WMD Proliferation Prevention | 74,937 | 74,937 | ..... |
| Total, Cooperative Threat Reduction | 335,240 | 335,240 | ..... |

DEPARTMENT OF DEFENSE ACQUISITION WORKFORCE DEVELOPMENT FUND

| | |
|--------------------------------|---------------|
| Appropriations, 2018 | \$500,000,000 |
| Budget estimate, 2019 | 400,000,000 |
| Committee recommendation | 552,000,000 |

The Committee recommends an appropriation of \$552,000,000. This is \$152,000,000 above the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table summarizes the budget estimate for this appropriation, the Committee recommendation, and the Committee recommended adjustments to the budget estimate:

(In thousands of dollars)

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|---|----------------------|--------------------------|-----------------------------|
| 1 | Training and Development | 230,624 | 326,724 | + 96,100 |
| | Program increase for unfunded requirement ..... | ..... | ..... | + 96,100 |
| 2 | Retention and Recognition | 16,200 | 25,700 | + 9,500 |
| | Program increase for unfunded requirement ..... | ..... | ..... | + 9,500 |
| 3 | Recruiting and Hiring | 153,176 | 199,576 | + 46,400 |
| | Program increase for unfunded requirement ..... | ..... | ..... | + 46,400 |

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|---|----------------------|--------------------------|-----------------------------|
| | Total, Department of Defense Acquisition Workforce Development Fund | 400,000 | 552,000 | + 152,000 |

Department of Defense Acquisition Workforce Development Fund Unfunded Requirements.—The fiscal year 2019 President’s budget request includes \$400,000,000 for the Department of Defense Acquisition Workforce Development Fund [DAWDF]. Subsequent to submission of the budget request, the Under Secretary of Defense (Acquisition and Sustainment) submitted, in accordance with congressional direction, to the congressional defense committees, unfunded requirements of \$152,000,000 for the acquisition workforce in fiscal year 2019. The Committee supports robust funding for the acquisition workforce and recommends an increase of \$152,000,000.

Department of Defense Acquisition Workforce Development Fund [DAWDF] Reporting Requirements.—The Committee directs the Under Secretary for Defense (Acquisition and Sustainment) to continue providing the DAWDF Annual Report to the congressional defense committees, as modified for additional congressional reporting requirements. Further, the Under Secretary of Defense (Acquisition and Sustainment) is directed to provide the congressional defense committees, with the fiscal year 2020 President’s budget request, additional details regarding the total budgeted acquisition workforce by funding category, per previous congressional direction.

**TITLE III
PROCUREMENT**

Funds appropriated under this title provide the resources required to purchase military equipment and hardware, including aircraft, ships, missiles, combat vehicles, ammunition, weapons, electronic sensors and communications equipment, and other procurement items.

The President's fiscal year 2019 budget requests a total of \$130,464,596,000 for procurement appropriations.

SUMMARY OF COMMITTEE ACTION

The Committee recommends procurement appropriations totaling \$135,198,897,000 for fiscal year 2019. This is \$4,734,301,000 above the budget estimate.

Committee recommended procurement appropriations for fiscal year 2019 are summarized below:

SUMMARY OF PROCUREMENT APPROPRIATIONS

[In thousands of dollars]

| Account | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|--|----------------------|--------------------------|-----------------------------|
| Procurement: | | | |
| Aircraft Procurement, Army | 3,782,558 | 4,890,658 | + 1,108,100 |
| Missile Procurement, Army | 3,355,777 | 3,160,597 | - 195,180 |
| Procurement of Weapons and Tracked Combat Vehicles, Army | 4,489,118 | 4,515,290 | + 26,172 |
| Procurement of Ammunition, Army | 2,234,761 | 2,283,369 | + 48,608 |
| Other Procurement, Army | 7,999,529 | 7,709,078 | - 290,451 |
| Aircraft Procurement, Navy | 19,041,799 | 20,083,169 | + 1,041,370 |
| Weapons Procurement, Navy | 3,702,393 | 3,780,572 | + 78,179 |
| Procurement of Ammunition, Navy and Marine Corps | 1,006,209 | 970,454 | - 35,755 |
| Shipbuilding and Conversion, Navy | 21,871,437 | 23,992,937 | + 2,121,500 |
| Other Procurement, Navy | 9,414,355 | 10,393,562 | + 979,207 |
| Procurement, Marine Corps | 2,860,410 | 2,800,997 | - 59,413 |
| Aircraft Procurement, Air Force | 16,206,937 | 15,772,473 | - 434,464 |
| Missile Procurement, Air Force | 2,669,454 | 2,614,954 | - 54,500 |
| Space Procurement, Air Force | 2,527,542 | 2,224,142 | - 303,400 |
| Procurement of Ammunition, Air Force | 1,587,304 | 1,564,880 | - 22,424 |
| Other Procurement, Air Force | 20,890,164 | 20,839,366 | - 50,798 |
| Procurement, Defense-Wide | 6,786,271 | 6,663,821 | - 122,450 |
| National Guard and Reserve Equipment ..... | ..... | 900,000 | + 900,000 |
| Defense Production Act Purchases | 38,578 | 38,578 | ..... |
| Total | 130,464,596 | 135,198,897 | + 4,734,301 |

REPROGRAMMING GUIDANCE FOR ACQUISITION ACCOUNTS

The Secretary of Defense is directed to continue to follow the reprogramming guidance as specified in the report accompanying the House version of the Department of Defense appropriations bill for fiscal year 2008 (House Report 110-279). Specifically, the dollar

threshold for reprogramming funds will remain at \$20,000,000 for procurement and \$10,000,000 for research, development, test and evaluation.

Also, the Under Secretary of Defense (Comptroller) is directed to continue to provide the congressional defense committees quarterly, spreadsheet-based DD Form 1416 reports for service and defense-wide accounts in titles III and IV of this act. Reports for titles III and IV shall comply with guidance specified in the explanatory statement accompanying the Department of Defense Appropriations Act for Fiscal Year 2006. The Department shall continue to follow the limitation that prior approval reprogrammings are set at either the specified dollar threshold or 20 percent of the procurement or research, development, test and evaluation line, whichever is less. These thresholds are cumulative from the base for reprogramming value as modified by any adjustments. Therefore, if the combined value of transfers into or out of a procurement (P-1), or a research, development, test and evaluation (R-1) line exceeds the identified threshold, the Secretary of Defense must submit a prior approval reprogramming to the congressional defense committees. In addition, guidelines on the application of prior approval reprogramming procedures for congressional special interest items are established elsewhere in this report.

FUNDING INCREASES

The funding increases outlined in the tables for each appropriation account shall be provided only for the specific purposes indicated in the tables.

PROCUREMENT SPECIAL INTEREST ITEMS

Items for which additional funds have been recommended or items for which funding is specifically reduced as shown in the tables detailing Committee recommended adjustments or in paragraphs using the phrase “only for” or “only to” are congressional special interest items for the purpose of the Base for Reprogramming (DD Form 1414). Each of these items must be carried on the DD Form 1414 at the stated amount, as specifically addressed in elsewhere in this report.

PROCUREMENT OVERVIEW

Army Organic Industrial Base.—The Committee directs the Secretary of the Army to provide 45-day written notification to the congressional defense committees prior to the Secretary approving civilian reductions in force that will result in an employment loss of 50 or more full-time employees at any Army organic industrial base facility. The notification shall include the impact that the proposed reduction in force will have on the ability to maintain the organic industrial base critical manufacturing capabilities as delineated in the Army Organic Industrial Base Strategy Report, a detailed accounting of the costs of implementing the reduction in force, and an assessment of the cost of, and time necessary, to restore any lost capability to meet future organic wartime manufacturing needs.

Arsenal Sustainment Initiative.—The Committee continues to support the Department of the Army's efforts to ensure that the critical manufacturing capabilities of the nation's organic industrial base are maintained, and commends the Army for issuing a definitive make-or-buy directive for the manufacturing arsenals. The new guidance ensures that the arsenals will be given fair consideration for every Army acquisition; provides for a 30-day review of all such decisions by the Army Acquisition Executive; requires all private sector companies to consider the arsenals as a potential supplier of component parts; and provides for an annual review of this overall process. The Committee encourages the Army to implement the new directive consistently to ensure the arsenals have the workload necessary to maintain the proficiency and capacity to meet the manufacturing needs of the nation during war and peacetime. The Committee notes that it has not yet received detailed recommendations from the Secretary of Defense on how the Air Force, Navy, and Marine Corps can better use the arsenals for their manufacturing needs, or what opportunities may exist for the arsenals to assist the services and the Defense Logistics Agency to procure for our spare parts inventory, as required by Senate Report 114–63.

AIRCRAFT PROCUREMENT, ARMY

| | |
|--------------------------------|-----------------|
| Appropriations, 2018 | \$5,535,794,000 |
| Budget estimate, 2019 | 3,782,558,000 |
| Committee recommendation | 4,890,658,000 |

The Committee recommends an appropriation of \$4,890,658,000. This is \$1,108,100,000 above the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table summarizes the budget estimate for this appropriation, the Committee recommendation, and the Committee recommended adjustments to the budget estimate:

[Dollars in thousands]

| Line | Item | Qty. | 2019 budget estimate | Qty. | Committee recommendation | Change from | |
|------|---|------|----------------------|------|--------------------------|-------------|-----------------|
| | | | | | | Qty. | Budget estimate |
| | AIRCRAFT | | | | | | |
| | FIXED WING | | | | | | |
| 2 | UTILITY F/W CARGO AIRCRAFT | | 744 | | 18,644 | | + 17,900 |
| 3 | MQ-1 UAV | | 43,326 | | 40,226 | | - 3,100 |
| 4 | RQ-11 (RAVEN) | | 46,416 | | 46,416 | | |
| | ROTARY | | | | | | |
| 7 | AH-64 APACHE BLOCK IIIA REMAN | 48 | 753,248 | 48 | 753,248 | | |
| 8 | AH-64 APACHE BLOCK IIIA REMAN [AP-CY] | | 174,550 | | 174,550 | | |
| 9 | AH-64 APACHE BLOCK IIIB NEW BUILD | 12 | 284,687 | 12 | 1,004,687 | | + 720,000 |
| 10 | AH-64 APACHE BLOCK IIIB NEW BUILD [AP-CY] | | 58,600 | | 58,600 | | |
| 11 | UH-60 BLACKHAWK (MYP) | 49 | 988,810 | 49 | 1,308,310 | | + 319,500 |
| 12 | UH-60 BLACKHAWK (MYP) [AP-CY] | | 106,150 | | 106,150 | | |
| 13 | UH-60 BLACKHAWK A AND L MODELS | 18 | 146,138 | 18 | 150,138 | | + 4,000 |
| 14 | CH-47 HELICOPTER | 6 | 99,278 | 6 | 99,278 | | |
| 15 | [AP-CY] | | 24,235 | | 24,235 | | |
| | TOTAL, AIRCRAFT | | 2,726,182 | | 3,784,482 | | + 1,058,300 |
| | MODIFICATION OF AIRCRAFT | | | | | | |
| 18 | UNIVERSAL GROUND CONTROL EQUIPMENT | | 27,114 | | 27,114 | | |
| 19 | GRAY EAGLE MODS2 | | 97,781 | | 97,781 | | |
| 20 | MULTI SENSOR ABN RECON (MIP) | | 52,274 | | 52,274 | | |
| 21 | AH-64 MODS | | 104,996 | | 104,996 | | |
| 22 | CH-47 CARGO HELICOPTER MODS | | 7,807 | | 7,807 | | |
| 23 | GRCS SEMA MODS (MIP) | | 5,573 | | 5,573 | | |
| 24 | ARL SEMA MODS (MIP) | | 7,522 | | 7,522 | | |
| 25 | EMARSS SEMA MODS (MIP) | | 20,448 | | 60,248 | | + 39,800 |
| 26 | UTILITY/CARGO AIRPLANE MODS | | 17,719 | | 17,719 | | |
| 27 | UTILITY HELICOPTER MODS | | 6,443 | | 16,443 | | + 10,000 |
| 28 | NETWORK AND MISSION PLAN | | 123,614 | | 123,614 | | |
| 29 | COMMS, NAV SURVEILLANCE | | 161,969 | | 161,969 | | |

[Dollars in thousands]

| Line | Item | Qty. | 2019 budget estimate | Qty. | Committee recommendation | Change from | |
|------|---|------|----------------------|------|--------------------------|-------------|-----------------|
| | | | | | | Qty. | Budget estimate |
| 30 | DEGRADED VISUAL ENVIRONMENT | | 30,000 | | 30,000 | | |
| 31 | GATM ROLLUP | | 26,848 | | 26,848 | | |
| 32 | RQ-7 UAV MODS | | 103,246 | | 103,246 | | |
| 33 | UAS MODS | | 17,644 | | 17,644 | | |
| | TOTAL, MODIFICATION OF AIRCRAFT | | 810,998 | | 860,798 | | + 49,800 |
| | SUPPORT EQUIPMENT AND FACILITIES | | | | | | |
| | GROUND SUPPORT AVIONICS | | | | | | |
| 34 | AIRCRAFT SURVIVABILITY EQUIPMENT | | 57,170 | | 57,170 | | |
| 35 | SURVIVABILITY CM | | 5,853 | | 5,853 | | |
| 36 | CMWS | | 13,496 | | 13,496 | | |
| 37 | COMMON INFRARED COUNTERMEASURES | | 36,839 | | 36,839 | | |
| | OTHER SUPPORT | | | | | | |
| 38 | AVIONICS SUPPORT EQUIPMENT | | 1,778 | | 1,778 | | |
| 39 | COMMON GROUND EQUIPMENT | | 34,818 | | 34,818 | | |
| 40 | AIRCREW INTEGRATED SYSTEMS | | 27,243 | | 27,243 | | |
| 41 | AIR TRAFFIC CONTROL | | 63,872 | | 63,872 | | |
| 42 | INDUSTRIAL FACILITIES | | 1,417 | | 1,417 | | |
| 43 | LAUNCHER, 2.75 ROCKET | | 1,901 | | 1,901 | | |
| 44 | LAUNCHER GUIDED MISSILE: LONGBOW HELLIHRE XM2 | | 991 | | 991 | | |
| | TOTAL, SUPPORT EQUIPMENT AND FACILITIES | | 245,378 | | 245,378 | | |
| | TOTAL, AIRCRAFT PROCUREMENT, ARMY | | 3,782,558 | | 4,890,658 | | + 1,108,100 |

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|---|----------------------|--------------------------|-----------------------------|
| 2 | Utility F/W Aircraft | 744 | 18,644 | + 17,900 |
| | Program increase: EMARSS-E | | | + 17,900 |
| 3 | MQ-1 UAV | 43,326 | 40,226 | - 3,100 |
| | Improving funds management: Contractor Management Growth | | | - 3,100 |
| 9 | AH-64 Apache Block IIIB New Build | 284,687 | 1,004,687 | + 720,000 |
| | Program increase: Additional helicopters | | | + 720,000 |
| 11 | UH-60 Blackhawk M Model [MYP] | 988,810 | 1,308,310 | + 319,500 |
| | Program increase: Fifteen aircraft for the ARNG | | | + 319,500 |
| 13 | UH-60 Black Hawk A and L Models | 146,138 | 150,138 | + 4,000 |
| | Program increase: ARNG UH/HH-60 Black Hawk SWIR integration | | | + 4,000 |
| 25 | EMARSS SEMA Mods [MIP] | 20,448 | 60,248 | + 39,800 |
| | Program increase: EMARSS-E Pods | | | + 39,800 |
| 27 | Utility Helicopter Mods | 6,443 | 16,443 | + 10,000 |
| | Program increase: Light Utility Helicopter sustainment plan | | | + 10,000 |

AH-64 Apache Block IIIB New Build.—The Committee recommendation includes \$1,184,687,000 for the procurement of AH-64 Apache Block IIIB New Build aircraft, an increase of \$720,000,000 above the budget request. The Secretary of the Army is encouraged to increase readiness by addressing the shortfall of aircraft in the Army National Guard Apache battalions.

UH-60 Black Hawk.—The Committee recommendation includes \$1,308,310,000 for the procurement of 64 UH-60M Black Hawk aircraft, an increase of \$319,500,000 and 15 aircraft above the budget request. Of the 64 aircraft funded within the fiscal year 2019 President's budget request, 15 are designated only for the Army National Guard.

CH-47 Cargo Helicopter.—The Committee encourages the Army to accelerate retrofit of MH/CH-47 aircraft with vibration control systems to reduce aircrew fatigue, improve performance and increase operational time between maintenance of certain aircraft components.

MISSILE PROCUREMENT, ARMY

| | |
|--------------------------------|-----------------|
| Appropriations, 2018 | \$3,196,910,000 |
| Budget estimate, 2019 | 3,355,777,000 |
| Committee recommendation | 3,160,597,000 |

The Committee recommends an appropriation of \$3,160,597,000. This is \$195,180,000 below the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table summarizes the budget estimate for this appropriation, the Committee recommendation, and the Committee recommended adjustments to the budget estimate:

[Dollars in thousands]

| Line | Item | Qty. | 2019 budget estimate | Qty. | Committee recommendation | Change from | |
|------|---|-------|----------------------|-------|--------------------------|-------------|-----------------|
| | | | | | | Qty. | Budget estimate |
| | OTHER MISSILES | | | | | | |
| | MISSILE PROCUREMENT, ARMY | | | | | | |
| | SURFACE-TO-AIR MISSILE SYSTEM | | | | | | |
| 1 | LOWER TIER AIR AND MISSILE DEFENSE [AMD] | | 111,395 | | 105,395 | | -6,000 |
| 2 | MSE MISSILE | 179 | 871,276 | 179 | 871,276 | | |
| 3 | INDIRECT FIRE PROTECTION CAPABILITY | | 145,636 | | 145,636 | | |
| 4 | INDIRECT FIRE PROTECTION CAPABILITY [AP-CY] | | 31,286 | | 27,586 | | -3,700 |
| | AIR-TO-SURFACE MISSILE SYSTEM | | | | | | |
| 6 | JOINT AIR-TO-GROUND MSLs [JAGM] | 1,046 | 276,462 | 1,046 | 276,462 | | |
| | ANTI-TANK/ASSAULT MISSILE SYSTEM | | | | | | |
| 8 | JAVELIN (AAWS-M) SYSTEM SUMMARY | 709 | 303,665 | 709 | 214,365 | | -89,300 |
| 9 | TOW 2 SYSTEM SUMMARY | 1,472 | 105,014 | 1,472 | 102,113 | | -2,901 |
| 10 | TOW 2 SYSTEM SUMMARY [AP-CY] | | 19,949 | | 19,949 | | |
| 11 | GUIDED MLRS ROCKET [GMLRS] | 3,267 | 359,613 | 3,267 | 355,859 | | -3,754 |
| 12 | MLRS REDUCED RANGE PRACTICE ROCKETS (RRPR) | 2,214 | 20,964 | 2,214 | 20,964 | | |
| | TOTAL, OTHER MISSILES | | 2,245,260 | | 2,139,605 | | -105,655 |
| | MODIFICATION OF MISSILES | | | | | | |
| | MODIFICATIONS | | | | | | |
| 15 | PATRIOT MODS | | 313,228 | | 313,228 | | |
| 16 | ATACMS MODS | | 221,656 | | 171,656 | | -50,000 |
| 17 | GMLRS MOD | | 266 | | 266 | | |
| 18 | STINGER MODS | | 94,756 | | 94,756 | | |
| 19 | AVENGER MODS | | 48,670 | | 31,093 | | -17,577 |
| 20 | ITAS/TOW MODS | | 3,173 | | 3,173 | | |
| 21 | MLRS MODS | | 383,216 | | 361,268 | | -21,948 |
| 22 | HIMARS MODIFICATIONS | | 10,196 | | 10,196 | | |
| | TOTAL, MODIFICATION OF MISSILES | | 1,075,161 | | 985,636 | | -89,525 |
| | SPARES AND REPAIR PARTS | | | | | | |
| 23 | SPARES AND REPAIR PARTS | | 27,737 | | 27,737 | | |

| | | | | | | | |
|----|---|-----------|-----------|--|-----------|--|-----------|
| 24 | SUPPORT EQUIPMENT AND FACILITIES | | | | | | |
| | AIR DEFENSE TARGETS | 6,417 | 6,417 | | 6,417 | | |
| 25 | PRODUCTION BASE SUPPORT | 1,202 | 1,202 | | 1,202 | | |
| | TOTAL, SUPPORT EQUIPMENT AND FACILITIES | 7,619 | 7,619 | | 7,619 | | |
| | TOTAL, MISSILE PROCUREMENT, ARMY | 3,355,777 | 3,355,777 | | 3,160,597 | | - 195,180 |

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|---|----------------------|--------------------------|-----------------------------|
| 1 | Lower Tier Air and Missile Defense [AMD] | 111,395 | 105,395 | - 6,000 |
| | Improving funds management: Prior year carryover of support costs | | | - 6,000 |
| 4 | INDIRECT FIRE PROTECTION CAPABILITY INC 2-I [AP-CY] ... | 31,286 | 27,586 | - 3,700 |
| | Improving funds management: Forward financing program management | | | - 3,700 |
| 8 | Javelin [Aaws-M] System Summary | 303,665 | 214,365 | - 89,300 |
| | Improving funds management: CLU retrofits funded in Public Law 115-141 | | | - 86,500 |
| | Improving funds management: Forward financing support costs | | | - 2,800 |
| 9 | Tow 2 System Summary | 105,014 | 102,113 | - 2,901 |
| | Insufficient budget justification: Reimbursable to direct conversions unaccounted for | | | - 2,901 |
| 11 | Guided MLRS Rocket [GMLRS] | 359,613 | 355,859 | - 3,754 |
| | Insufficient budget justification: Reimbursable to direct conversions unaccounted for | | | - 3,754 |
| 16 | ATACMS MODS | 221,656 | 171,656 | - 50,000 |
| | Improving funds management: Munitions funded in Public Law 115-141 | | | - 50,000 |
| 19 | Avenger Mods | 48,670 | 31,093 | - 17,577 |
| | Restoring acquisition accountability: M-SHORAD ahead of need | | | - 17,577 |
| 21 | MLRS Mods | 383,216 | 361,268 | - 21,948 |
| | Improving funds management: Obsolescence NRE previously funded | | | - 12,300 |
| | Improving funds management: Unit cost savings | | | - 7,600 |
| | Insufficient budget justification: Reimbursable to direct conversions unaccounted for | | | - 2,048 |

PROCUREMENT OF WEAPONS AND TRACKED COMBAT VEHICLES,
ARMY

| | |
|--------------------------------|-----------------|
| Appropriations, 2018 | \$4,391,573,000 |
| Budget estimate, 2019 | 4,489,118,000 |
| Committee recommendation | 4,515,290,000 |

The Committee recommends an appropriation of \$4,515,290,000. This is \$26,172,000 above the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table summarizes the budget estimate for this appropriation, the Committee recommendation, and the Committee recommended adjustments to the budget estimate:

[Dollars in thousands]

| Line | Item | Qty. | 2019 budget estimate | Qty. | Committee recommendation | Change from | |
|------|--|------|----------------------|------|--------------------------|-------------|-----------------|
| | | | | | | Qty. | Budget estimate |
| | PROCUREMENT OF WEAPONS AND TRACKED COMBAT VEHICLES (W&TCV), ARMY | | | | | | |
| 2 | TRACKED COMBAT VEHICLES | 131 | 479,801 | 131 | 478,606 | | -1,195 |
| | ARMORED MULTI PURPOSE VEHICLE (AMPV) | | | | | | |
| | MODIFICATION OF TRACKED COMBAT VEHICLES | | | | | | |
| 4 | STRYKER (MOD) | | 287,490 | | 127,301 | | -160,189 |
| 5 | STRYKER UPGRADE | 3 | 21,900 | 82 | 265,290 | +79 | +243,390 |
| 6 | BRADLEY PROGRAM (MOD) | | 625,424 | | 465,424 | | -160,000 |
| 7 | M109 FOV MODIFICATIONS | | 26,482 | | 26,482 | | |
| 8 | PALADIN INTEGRATED MANAGEMENT (PIM) | 30 | 351,802 | 43 | 458,902 | +13 | +107,100 |
| 9 | IMPROVED RECOVERY VEHICLE (M88A2 HERCULES) | 26 | 110,500 | 26 | 110,500 | | |
| 10 | ASSAULT BRIDGE (MOD) | | 2,120 | | 2,120 | | |
| 11 | ASSAULT BREACHER VEHICLE | 12 | 62,407 | 12 | 62,407 | | |
| 12 | M88 FOV MODS | | 4,517 | | 4,517 | | |
| 13 | JOINT ASSAULT BRIDGE | 30 | 142,255 | 30 | 141,231 | | -1,024 |
| 14 | M1 ABRAMS TANK (MOD) | | 927,600 | | 925,041 | | -2,559 |
| 15 | ABRAMS UPGRADE PROGRAM | 95 | 1,075,999 | 95 | 1,072,243 | | -3,756 |
| | TOTAL, TRACKED COMBAT VEHICLES | | 4,118,297 | | 4,140,064 | | +21,767 |
| | WEAPONS AND OTHER COMBAT VEHICLES | | | | | | |
| 18 | M240 MEDIUM MACHINE GUN (7.62MM) | | 1,955 | | 14,455 | | +12,500 |
| 19 | MULTI-ROLE ANTI-ARMOR ANTI-PERSONNEL WEAPON | | 23,345 | | 23,345 | | |
| 20 | GUN AUTOMATIC 30MM M230 | | 7,434 | | | | -7,434 |
| 21 | MACHINE GUN, CAL .50 M2 ROLL | | 22,330 | | 22,330 | | |
| 22 | MORTAR SYSTEMS | | 12,470 | | 12,470 | | |
| 23 | XM320 GRENADE LAUNCHER MODULE (GLM) | | 697 | | 18,197 | | +17,500 |
| 24 | COMPACT SEMI-AUTOMATIC SNIPER SYSTEM | | 46,236 | | 46,236 | | |
| 25 | CARBINE | | 69,306 | | 67,806 | | -1,500 |
| 26 | SMALL ARMS—FIRE CONTROL | | 7,929 | | | | -7,929 |
| 27 | COMMON REMOTELY OPERATED WEAPONS STATION | | 35,968 | | 35,968 | | |
| 28 | MODULAR HANDGUN SYSTEM | | 48,251 | | 48,251 | | |
| | MOD OF WEAPONS AND OTHER COMBAT VEH | | | | | | |
| 29 | MK-19 GRENADE MACHINE GUN MODS | | 1,684 | | 1,684 | | |

[Dollars in thousands]

| Line | Item | Qty. | 2019 budget estimate | Qty. | Committee recommendation | Change from | |
|------|--|------|----------------------|------|--------------------------|-------------|-----------------|
| | | | | | | Qty. | Budget estimate |
| 30 | M777 MODS | | 3,086 | | 3,086 | | |
| 31 | M4 CARBINE MODS | | 31,575 | | 31,575 | | |
| 32 | M2 50 CAL MACHINE GUN MODS | | 21,600 | | 14,178 | | -7,422 |
| 33 | M249 SAW MACHINE GUN MODS | | 3,924 | | 3,924 | | |
| 34 | M240 MEDIUM MACHINE GUN MODS | | 6,940 | | 6,940 | | |
| 35 | SNIPER RIFLES MODIFICATIONS | | 2,747 | | 2,747 | | |
| 36 | M119 MODIFICATIONS | | 5,704 | | 4,394 | | -1,310 |
| 37 | MORTAR MODIFICATION | | 3,965 | | 3,965 | | |
| 38 | MODIFICATIONS LESS THAN \$5.0M (WOCV-WTCV) | | 5,577 | | 5,577 | | |
| | SUPPORT EQUIPMENT AND FACILITIES | | | | | | |
| 39 | ITEMS LESS THAN \$5.0M (WOCV-WTCV) | | 3,174 | | 3,174 | | |
| 40 | PRODUCTION BASE SUPPORT (WOCV-WTCV) | | 3,284 | | 3,284 | | |
| 41 | SMALL ARMS EQUIPMENT (SOLDIER ENH PROG) | | 1,640 | | 1,640 | | |
| | TOTAL, WEAPONS AND OTHER COMBAT VEHICLES | | 370,821 | | 375,226 | | +4,405 |
| | TOTAL, PROCUREMENT OF W&TCV, ARMY | | 4,489,118 | | 4,515,290 | | +26,172 |

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|---|----------------------|--------------------------|-----------------------------|
| 2 | Armored Multi Purpose Vehicle [AMPV] | 479,801 | 478,606 | - 1,195 |
| | Insufficient budget justification: Reimbursable to direct conversions unaccounted for | | | - 1,195 |
| 4 | Stryker (MOD) | 287,490 | 127,301 | - 160,189 |
| | Transfer: Army requested transfer to W&TCV line 5 | | | - 149,390 |
| | Restoring acquisition accountability: Revised DVH acquisition strategy | | | - 5,000 |
| | Insufficient budget justification: Reimbursable to direct conversions unaccounted for | | | - 5,799 |
| 5 | Stryker Upgrade | 21,900 | 265,290 | + 243,390 |
| | Transfer: Army requested transfer from W&TCV line 4 .. | | | + 149,390 |
| | Program increase: DVHA1 conversions | | | + 94,000 |
| 6 | Bradley Program (MOD) | 625,424 | 465,424 | - 160,000 |
| | Restoring acquisition accountability: Revised A4 acquisition strategy | | | - 160,000 |
| 8 | Paladin Integrated Management [PIM] | 351,802 | 458,902 | + 107,100 |
| | Insufficient budget justification: Reimbursable to direct conversions unaccounted for | | | - 2,900 |
| | Program increase: PIM production restoration | | | + 110,000 |
| 13 | Joint Assault Bridge | 142,255 | 141,231 | - 1,024 |
| | Insufficient budget justification: Reimbursable to direct conversions unaccounted for | | | - 1,024 |
| 14 | M1 Abrams Tank (MOD) | 927,600 | 925,041 | - 2,559 |
| | Insufficient budget justification: Reimbursable to direct conversions unaccounted for | | | - 2,559 |
| 15 | Abrams Upgrade Program | 1,075,999 | 1,072,243 | - 3,756 |
| | Insufficient budget justification: Reimbursable to direct conversions unaccounted for | | | - 3,756 |
| 18 | M240 Medium Machine Gun (7.62MM) | 1,955 | 14,455 | + 12,500 |
| | Program increase: M240 production | | | + 12,500 |
| 20 | GUN AUTOMATIC 30MM M230 | 7,434 | | - 7,434 |
| | Restoring acquisition accountability: Ahead of need | | | - 7,434 |
| 23 | XM320 Grenade Launcher Module [GLM] | 697 | 18,197 | + 17,500 |
| | Program increase | | | + 17,500 |
| 25 | Carbine | 69,306 | 67,806 | - 1,500 |
| | Maintain program affordability: Unjustified management growth | | | - 1,500 |
| 26 | Small Arms—Fire Control | 7,929 | | - 7,929 |
| | Restoring acquisition accountability: Unfinitized requirements | | | - 7,929 |
| 32 | M2 50 Cal Machine Gun Mods | 21,600 | 14,178 | - 7,422 |
| | Improving funds management: Prior year carryover | | | - 7,422 |
| 36 | M119 Modifications | 5,704 | 4,394 | - 1,310 |
| | Insufficient budget justification: Reimbursable to direct conversions unaccounted for | | | - 1,310 |

Army Stryker Double-V Hull A1.—Following the submission of the fiscal year 2019 President’s budget request, the Chief of Staff of the Army approved an Army Requirements Oversight Counsel [AROC] decision to upgrade and pure fleet all Flat-Bottom Hull [FBH] Stryker combat vehicles to the Double V–Hull A1 variant [DVHA1] in an effort to improve troop survivability and mobility. The fiscal year 2019 President’s budget request includes \$21,900,000 to upgrade three FBH Stryker vehicles to DVHA1 variants. Subsequent to the AROC decision, the Army requested a budget based transfer of \$149,390,000 to fund additional conver-

sions. With the transfer, the Army can resource 53 DVHA1 conversions totaling \$171,290,000. The Committee has also included a congressional adjustment of \$94,000,000 for 29 conversions. In addition, the Committee understands that the Army plans to submit a reprogramming request to the congressional defense committees with a request to repurpose fiscal year 2018 congressionally directed funding totaling \$285,000,000 for 91 DVHA1 conversions. If the reprogramming action is approved by the congressional defense committees, the Army will have sufficient resources to fund conversions for half the vehicles in a Stryker Brigade Combat Team [SBCT].

The Committee supports the net-zero fiscal year 2019 transfer request and additional funding for DVHA1 conversions, while anticipating the fiscal year 2018 reprogramming request. However, the Committee is concerned with the Army’s ability to maintain this level of effort through resourcing decisions in the Future Years Defense Program profile within future Program Objective Memorandum and budgeting cycles. Therefore, the Secretary of the Army shall report to the congressional defense committees not later than 30 days after the enactment of this act, on the Army’s acquisition strategy to upgrade and pure fleet the remaining FBH SBCTs to DVHA1 variants.

M4A1 Carbine Extended Forward Rail System.—The Army’s Soldier Enhancement Program study published in December 2017 found that the United States Special Operations Command’s extended free-float rail system is substantially more accurate than the Army’s legacy M4A1 rail and readily available in the supply system. While the Committee supports the Army’s modernization strategy which calls for developing and fielding the Next Generation Squad Automatic Weapon before developing and fielding the Next Generation Soldier Weapon, the Committee remains concerned that the Army is not accelerating modest and readily available upgrades to the M4A1 Carbine and thereby improving soldier lethality in the interim. Therefore, the Committee encourages the Secretary of the Army to accelerate adapting a government provided extended free-float rail system for the M4A1 carbine.

PROCUREMENT OF AMMUNITION, ARMY

| | |
|--------------------------------|-----------------|
| Appropriations, 2018 | \$2,548,740,000 |
| Budget estimate, 2019 | 2,234,761,000 |
| Committee recommendation | 2,283,369,000 |

The Committee recommends an appropriation of \$2,283,369,000. This is \$48,608,000 above the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table summarizes the budget estimate for this appropriation, the Committee recommendation, and the Committee recommended adjustments to the budget estimate:

[Dollars in thousands]

| Line | Item | Qty. | 2019 budget estimate | Qty. | Committee recommendation | Change from | |
|------|---|-------|----------------------|-------|--------------------------|-------------|-----------------|
| | | | | | | Qty. | Budget estimate |
| | PROCUREMENT OF AMMUNITION, ARMY | | | | | | |
| | AMMUNITION | | | | | | |
| | SMALL/MEDIUM CAL AMMUNITION | | | | | | |
| 1 | CTG, 5.56MM, ALL TYPES | | 41,848 | | 41,848 | | |
| 2 | CTG, 7.62MM, ALL TYPES | | 86,199 | | 86,199 | | |
| 3 | CTG, HANDGUN, ALL TYPES | | 20,158 | | 19,159 | | -999 |
| 4 | CTG, .50 CAL, ALL TYPES | | 65,573 | | 65,573 | | |
| 5 | CTG, 20MM, ALL TYPES | | 8,198 | | 8,198 | | |
| 7 | CTG, 30MM, ALL TYPES | | 77,995 | | 77,995 | | |
| 8 | CTG, 40MM, ALL TYPES | | 69,781 | | 69,781 | | |
| | MORTAR AMMUNITION | | | | | | |
| 9 | 60MM MORTAR, ALL TYPES | | 45,280 | | 45,280 | | |
| 10 | 81MM MORTAR, ALL TYPES | | 46,853 | | 47,403 | | +550 |
| 11 | 120MM MORTAR, ALL TYPES | | 83,003 | | 82,853 | | -150 |
| | TANK AMMUNITION | | | | | | |
| 12 | CTG TANK 105MM AND 120MM: ALL TYPES | | 168,101 | | 151,901 | | -16,200 |
| | ARTILLERY AMMUNITION | | | | | | |
| 13 | CTG, ARTY, 75MM AND 105MM: ALL TYPES | | 39,341 | | 34,673 | | -4,668 |
| 14 | ARTILLERY PROJECTILE, 155MM, ALL TYPES | | 211,442 | | 221,442 | | +10,000 |
| 15 | PROJ 155MM EXTENDED RANGE XM982 | 1,189 | 100,906 | 1,189 | 100,906 | | |
| 16 | ARTILLERY PROPELLANTS, FUZES AND PRIMERS, ALL TYPES | | 236,677 | | 206,677 | | -30,000 |
| | MINES | | | | | | |
| 17 | MINES AND CLEARING CHARGES, ALL TYPES | | 15,905 | | 15,005 | | -900 |
| | ROCKETS | | | | | | |
| 18 | SHOULDER LAUNCHED MUNITIONS, ALL TYPES | | 4,503 | | 4,503 | | |
| 19 | ROCKET, HYDRA 70, ALL TYPES | | 211,211 | | 229,761 | | +18,550 |
| | OTHER AMMUNITION | | | | | | |
| 20 | CAD/PAD ALL TYPES | | 10,428 | | 8,928 | | -1,500 |
| 21 | DEMOLITION MUNITIONS, ALL TYPES | | 44,656 | | 44,656 | | |
| 22 | GRENADES, ALL TYPES | | 19,896 | | 39,896 | | +20,000 |

[Dollars in thousands]

| Line | Item | Qty. | 2019 budget estimate | Qty. | Committee recommendation | Change from | |
|------|--|------|----------------------|------|--------------------------|-------------|-----------------|
| | | | | | | Qty. | Budget estimate |
| 23 | SIGNALS, ALL TYPES | | 10,121 | | 8,121 | | -2,000 |
| 24 | SIMULATORS, ALL TYPES | | 11,464 | | 11,464 | | |
| | MISCELLANEOUS | | | | | | |
| 25 | AMMO COMPONENTS, ALL TYPES | | 5,224 | | 5,224 | | |
| 26 | NON-LETHAL AMMUNITION, ALL TYPES | | 4,310 | | 2,810 | | -1,500 |
| 27 | ITEMS LESS THAN \$5 MILLION | | 11,193 | | 11,193 | | |
| 28 | AMMUNITION PECULIAR EQUIPMENT | | 10,500 | | 10,500 | | |
| 29 | FIRST DESTINATION TRANSPORTATION (AMMO) | | 18,456 | | 18,456 | | |
| 30 | CLOSEOUT LIABILITIES | | 100 | | 100 | | |
| | TOTAL, AMMUNITION | | 1,679,322 | | 1,670,505 | | -8,817 |
| | AMMUNITION PRODUCTION BASE SUPPORT | | | | | | |
| | PRODUCTION BASE SUPPORT | | | | | | |
| 32 | PROVISION OF INDUSTRIAL FACILITIES | | 394,133 | | 451,558 | | + 57,425 |
| 33 | CONVENTIONAL MUNITIONS DEMILITARIZATION, ALL | | 157,535 | | 157,535 | | |
| 34 | ARMS INITIATIVE | | 3,771 | | 3,771 | | |
| | TOTAL, AMMUNITION PRODUCTION BASE SUPPORT | | 555,439 | | 612,864 | | + 57,425 |
| | TOTAL, PROCUREMENT OF AMMUNITION, ARMY | | 2,234,761 | | 2,283,369 | | + 48,608 |

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|--|----------------------|--------------------------|-----------------------------|
| 3 | CTG, Handgun, All Types | 20,158 | 19,159 | - 999 |
| | Restoring acquisition accountability: requirement previously funded (CTG, 9MM High Pressure Test M905) | | | - 999 |
| 10 | 81MM Mortar, All Types | 46,853 | 47,403 | + 550 |
| | Restoring acquisition accountability: schedule slip (81MM HE M821) | | | - 4,450 |
| | Program increase | | | + 5,000 |
| 11 | 120MM Mortar, All Types | 83,003 | 82,853 | - 150 |
| | Restoring acquisition accountability: LAP unit cost growth (120MM HE M933) | | | - 150 |
| 12 | Cartridges, Tank, 105MM and 120MM, All Types | 168,101 | 151,901 | - 16,200 |
| | Restoring acquisition accountability: Program delays (XM1147) | | | - 8,200 |
| | Restoring acquisition accountability: schedule slip (120MM M829A4) | | | - 8,000 |
| 13 | Artillery Cartridges, 75MM & 105MM, All Types | 39,341 | 34,673 | - 4,668 |
| | Restoring acquisition accountability: requirement previously funded (105MM IR ILLUM M1064) | | | - 4,668 |
| 14 | Artillery Projectile, 155MM, All Types | 211,442 | 221,442 | + 10,000 |
| | Realignment M795: Army requested | | | - 33,000 |
| | Realignment BONUS: Army requested | | | + 33,000 |
| | Program increase: M1121 | | | + 5,000 |
| | Program increase: M825 | | | + 5,000 |
| 16 | Artillery Propellants, Fuzes and Primers, All | 236,677 | 206,677 | - 30,000 |
| | Restoring acquisition accountability: requirement previously funded (PGK) | | | - 30,000 |
| 17 | Mines & Clearing Charges, All Types | 15,905 | 15,005 | - 900 |
| | Restoring acquisition accountability: unit cost growth (MK7) | | | - 500 |
| | Restoring acquisition accountability: Production engineering growth (MK7) | | | - 400 |
| 19 | Rocket, Hydra 70, All Types | 211,211 | 229,761 | + 18,550 |
| | Restoring acquisition accountability: Engineering cost growth (Guided Rockets) | | | - 11,450 |
| | Program increase: Unfunded requirement | | | + 30,000 |
| 20 | CAD/PAD, All Types | 10,428 | 8,928 | - 1,500 |
| | Improving funds management: Forward financing | | | - 1,500 |
| 22 | Grenades, All Types | 19,896 | 39,896 | + 20,000 |
| | Program increase: M18 variants | | | + 20,000 |
| 23 | Signals, All Types | 10,121 | 8,121 | - 2,000 |
| | Improving funds management: Forward financing | | | - 2,000 |
| 26 | Non-Lethal Ammunition, All Types | 4,310 | 2,810 | - 1,500 |
| | Improving funds management: Forward financing | | | - 1,500 |
| 32 | Industrial Facilities | 394,133 | 451,558 | + 57,425 |
| | Program increase | | | + 57,425 |

OTHER PROCUREMENT, ARMY

| | |
|--------------------------------|-----------------|
| Appropriations, 2018 | \$8,298,418,000 |
| Budget estimate, 2019 | 7,999,529,000 |
| Committee recommendation | 7,709,078,000 |

The Committee recommends an appropriation of \$7,709,078,000. This is \$290,451,000 below the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table summarizes the budget estimate for this appropriation, the Committee recommendation, and the Committee recommended adjustments to the budget estimate:

[Dollars in thousands]

| Line | Item | Qty. | 2019 budget estimate | Qty. | Committee recommendation | Change from | |
|------|---|------|----------------------|------|--------------------------|-------------|-----------------|
| | | | | | | Qty. | Budget estimate |
| | OTHER PROCUREMENT, ARMY | | | | | | |
| | TACTICAL AND SUPPORT VEHICLES | | | | | | |
| | TACTICAL VEHICLES | | | | | | |
| 1 | TACTICAL TRAILERS/DOLLY SETS | | 16,512 | | 16,512 | | |
| 2 | SEMITRAILERS, FLATBED | | 16,951 | | 16,951 | | |
| 3 | HIGH MOBILITY MULTI-PURPOSE WHEELED VEHICLE (HMMWV) | | 50,123 | | 170,123 | | + 120,000 |
| 4 | GROUND MOBILITY VEHICLES (GMV) | | 46,988 | | 46,988 | | |
| 6 | JOINT LIGHT TACTICAL VEHICLE | | 1,319,436 | | 1,302,473 | | - 16,963 |
| 7 | TRUCK, DUMP, 20t (CCE) | | 6,480 | | 6,480 | | |
| 8 | FAMILY OF MEDIUM TACTICAL VEH (FMTV) | | 132,882 | | 132,882 | | |
| 9 | FIRETRUCKS & ASSOCIATED FIREFIGHTING EQUIP | | 14,842 | | 14,842 | | |
| 10 | FAMILY OF HEAVY TACTICAL VEHICLES (FHTV) | | 138,105 | | 121,691 | | - 16,414 |
| 12 | HEAVY EXPANDED MOBILE TACTICAL TRUCK EXT SERV | | 31,892 | | 28,596 | | - 3,296 |
| 13 | TACTICAL WHEELED VEHICLE PROTECTION KITS | | 38,128 | | 38,128 | | |
| 14 | MODIFICATION OF IN SVC EQUIP | | 78,507 | | 75,265 | | - 3,242 |
| | NON-TACTICAL VEHICLES | | | | | | |
| 16 | HEAVY ARMORED SEDAN | | 790 | | 790 | | |
| 17 | PASSENGER CARRYING VEHICLES | | 1,390 | | 1,390 | | |
| 18 | NONTACTICAL VEHICLES, OTHER | | 15,415 | | 15,415 | | |
| | TOTAL, TACTICAL AND SUPPORT VEHICLES | | 1,908,441 | | 1,988,526 | | + 80,085 |
| | COMMUNICATIONS AND ELECTRONICS EQUIPMENT | | | | | | |
| | COMM—JOINT COMMUNICATIONS | | | | | | |
| 20 | SIGNAL MODERNIZATION PROGRAM | | 150,777 | | 86,507 | | - 64,270 |
| 21 | TACTICAL NETWORK TECHNOLOGY MOD IN SERVICE | | 469,117 | | 430,775 | | - 38,342 |
| 22 | SITUATION INFORMATION TRANSPORT | | 62,727 | | 62,727 | | |
| 23 | JOINT INCIDENT SITE COMMUNICATIONS CAPABILITY | | 13,895 | | 13,895 | | |
| 24 | JCS-EQUIPMENT (USREDCOM) | | 4,866 | | 4,866 | | |
| | COMM—SATELLITE COMMUNICATIONS | | | | | | |
| 27 | DEFENSE ENTERPRISE WIDEBAND SATCOM SYSTEMS | | 108,133 | | 108,133 | | |
| 28 | TRANSPORTABLE TACTICAL COMMAND COMMUNICATIONS | | 56,737 | | 69,960 | | + 13,223 |

[Dollars in thousands]

| Line | Item | Qty. | 2019 budget estimate | Qty. | Committee recommendation | Change from | |
|------|---|------|----------------------|------|--------------------------|-------------|-----------------|
| | | | | | | Qty. | Budget estimate |
| 29 | SHF TERM | | 13,100 | | 13,100 | | |
| 30 | SMART-T (SPACE) | | 9,160 | | 9,160 | | |
| 31 | GLOBAL BROADCAST SVC—GBS | | 25,647 | | 25,647 | | |
| 32 | ENROUTE MISSION COMMAND (EMC) | | 37,401 | | 37,401 | | |
| | COMM—COMBAT SUPPORT COMM | | | | | | |
| | COMM—C3 SYSTEM | | | | | | |
| 36 | COE TACTICAL SERVER INFRASTRUCTURE (TSI) | | 20,500 | | 20,500 | | |
| | COMM—COMBAT COMMUNICATIONS | | | | | | |
| 38 | HANDHELD MANPACK SMALL FORM FIT (HMS) | | 351,565 | | 298,475 | | — 53,090 |
| 40 | RADIO TERMINAL SET, MIDS LVT(2) | | 4,641 | | 4,641 | | |
| 41 | TRACTOR DESK | | 2,187 | | 2,187 | | |
| 42 | TRACTOR RIDE | | 9,411 | | 9,411 | | |
| 44 | SPIDER FAMILY OF NETWORKED MUNITIONS INCREASE | | 17,515 | | 17,515 | | |
| 45 | TACTICAL COMMUNICATIONS AND PROTECTIVE SYSTEM | | 819 | | 819 | | |
| 46 | UNIFIED COMMAND SUITE | | 17,807 | | 17,807 | | |
| 47 | COTS COMMUNICATIONS EQUIPMENT | | 191,835 | | 63,835 | | — 128,000 |
| 48 | FAMILY OF MED COMM FOR COMBAT CASUALTY CARE | | 25,177 | | 25,177 | | |
| | COMM—INTELLIGENCE COMM | | | | | | |
| 50 | CI AUTOMATION ARCHITECTURE [IMP] | | 9,740 | | 9,740 | | |
| 51 | DEFENSE MILITARY DECEPTION INITIATIVE | | 2,667 | | 2,667 | | |
| | INFORMATION SECURITY | | | | | | |
| 53 | FAMILY OF BIOMETRICS | | 8,319 | | 8,319 | | |
| 54 | INFORMATION SYSTEM SECURITY PROGRAM—ISSP | | 2,000 | | 2,000 | | |
| 55 | COMMUNICATIONS SECURITY (COMSEC) | | 88,337 | | 88,337 | | |
| 56 | DEFENSIVE CYBER OPERATIONS | | 51,343 | | 45,343 | | — 6,000 |
| 57 | INSIDER THREAT PROGRAM—UNIT ACTIVITY MONITOR | | 330 | | 330 | | |
| 58 | PERSISTENT CYBER TRAINING ENVIRONMENT | | 3,000 | | | | — 3,000 |
| | COMM—LONG HAUL COMMUNICATIONS | | | | | | |
| 59 | BASE SUPPORT COMMUNICATIONS | | 34,434 | | 32,557 | | — 1,877 |
| | COMM—BASE COMMUNICATIONS | | | | | | |
| 60 | INFORMATION SYSTEMS | | 95,558 | | 81,609 | | — 13,949 |

| | | | | | | |
|-----|--|---------|---------|---------|----------|-------|
| 61 | EMERGENCY MANAGEMENT MODERNIZATION PROGRAM | 4,736 | 4,736 | 4,736 | 4,736 | ..... |
| 62 | HOME STATION MISSION COMMAND CENTERS (MSMCC) | 24,479 | 24,479 | 24,479 | 24,479 | ..... |
| 63 | INSTALLATION INFO INFRASTRUCTURE MOD PROGRAM | 216,433 | 216,433 | 174,938 | -41,495 | ..... |
| | ELECT EQUIP |  |  |  |  | ..... |
| | ELECT EQUIP—TACT INT REL ACT (TIARA) |  |  |  |  | ..... |
| 66 | JT/CIBS-M [MIP] | 10,268 | 10,268 | 10,268 | -7,909 | ..... |
| 68 | DGCS-A [MIP] | 261,863 | 261,863 | 253,954 | 7,909 | ..... |
| 69 | JOINT TACTICAL GROUND STATION [JTGS] [MIP] | 5,434 | 5,434 | 5,434 | ..... | ..... |
| 70 | TROJAN [MIP] | 20,623 | 20,623 | 20,623 | ..... | ..... |
| 71 | MOD OF IN-SVC EQUIP (INTEL SPT) [MIP] | 45,998 | 45,998 | 45,998 | ..... | ..... |
| 72 | CI HUMINT AUTO REPRING AND COLL[CHARGES][MIP] | 296 | 296 | 296 | ..... | ..... |
| 76 | ITEMS LESS THAN \$5.0M [MIP] | 410 | 410 | 410 | ..... | ..... |
| | ELECT EQUIP—ELECTRONIC WARFARE (EW) |  |  |  |  | ..... |
| 77 | LIGHTWEIGHT COUNTER MORTAR RADAR | 9,165 | 9,165 | 9,165 | ..... | ..... |
| 78 | EW PLANNING AND MANAGEMENT TOOLS | 5,875 | 5,875 | 5,875 | ..... | ..... |
| 79 | AIR VIGILANCE (AV) | 8,497 | 8,497 | 8,497 | ..... | ..... |
| 81 | FAMILY OF PERSISTENT SURVEILLANCE CAP. [MIP] | ..... | ..... | 1,585 | + 1,585 | ..... |
| 82 | COUNTERINTELLIGENCE/SECURITY COUNTERMEASURES | ..... | ..... | 5,400 | + 5,400 | ..... |
| 83 | CI MODERNIZATION [MIP] | 486 | 486 | 486 | ..... | ..... |
| | ELECT EQUIP—TACTICAL SURV. (TAC SURV) |  |  |  |  | ..... |
| 84 | SENTINEL MODS | 79,629 | 79,629 | 77,752 | -1,877 | ..... |
| 85 | NIGHT VISION DEVICES | 153,180 | 153,180 | 155,680 | + 2,500 | ..... |
| 87 | SMALL TACTICAL OPTICAL RIFLE MOUNTED MLRF | 22,882 | 22,882 | 22,882 | ..... | ..... |
| 88 | RADIATION MONITORING SYSTEMS | 17,393 | 17,393 | 17,393 | ..... | ..... |
| 90 | INDIRECT FIRE PROTECTION FAMILY OF SYSTEMS | 46,740 | 46,740 | 6,740 | - 40,000 | ..... |
| 91 | FAMILY OF WEAPON SIGHTS (FWS) | 140,737 | 140,737 | 125,513 | - 15,224 | ..... |
| 93 | PROFILER | 171 | 171 | 171 | ..... | ..... |
| 94 | JOINT BATTLE COMMAND—PLATFORM [JBC-P] | 405,239 | 405,239 | 383,691 | - 21,548 | ..... |
| 95 | JOINT EFFECTS TARGETING SYSTEM (JETS) | 66,574 | 66,574 | 66,574 | ..... | ..... |
| 96 | MOD OF IN-SERVICE EQUIPMENT (LLDR) | 20,783 | 20,783 | 20,783 | ..... | ..... |
| 97 | COMPUTER BALLISTICS: LHMCB XM32 | 8,553 | 8,553 | 8,553 | ..... | ..... |
| 98 | MORTAR FIRE CONTROL SYSTEM | 21,489 | 21,489 | 21,489 | ..... | ..... |
| 99 | COUNTERFIRE RADARS | 162,121 | 162,121 | 162,121 | ..... | ..... |
| | ELECT EQUIP—TACTICAL C2 SYSTEMS |  |  |  |  | ..... |
| 100 | ARMY COMMAND POST INTEGRATED INFRASTRUCTURE | 2,855 | 2,855 | 2,855 | ..... | ..... |
| 101 | FIRE SUPPORT C2 FAMILY | 19,153 | 19,153 | 19,153 | ..... | ..... |
| 102 | AIR & MSL DEFENSE PLANNING & CONTROL SYS (AMD) | 33,837 | 33,837 | 29,913 | - 3,924 | ..... |
| 103 | LIFE CYCLE SOFTWARE SUPPORT [LCSS] | 5,136 | 5,136 | 5,136 | ..... | ..... |

[Dollars in thousands]

| Line | Item | Qty. | 2019 budget estimate | Qty. | Committee recommendation | Change from | |
|------|---|-------|----------------------|-------|--------------------------|-------------|-----------------|
| | | | | | | Qty. | Budget estimate |
| 104 | NETWORK MANAGEMENT INITIALIZATION AND SERVICE ..... | ..... | 18,329 | ..... | 15,087 | ..... | - 3,242 |
| 105 | MANEUVER CONTROL SYSTEM (MCS) ..... | ..... | 38,015 | ..... | 29,144 | ..... | - 8,871 |
| 106 | GLOBAL COMBAT SUPPORT SYSTEM-ARMY ..... | ..... | 15,164 | ..... | 15,164 | ..... | ..... |
| 107 | INTEGRATED PERSONNEL AND PAY SYSTEM-ARMY ..... | ..... | 29,239 | ..... | ..... | ..... | - 29,239 |
| 109 | RECONNAISSANCE AND SURVEYING INSTRUMENT SET ..... | ..... | 6,823 | ..... | 6,823 | ..... | ..... |
| 110 | MOD OF IN-SERVICE EQUIPMENT (ENFIRE) ..... | ..... | 1,177 | ..... | 1,177 | ..... | ..... |
| 111 | ELECT EQUIP—AUTOMATION ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| 112 | ARMY TRAINING MODERNIZATION ..... | ..... | 12,265 | ..... | 12,265 | ..... | ..... |
| 113 | AUTOMATED DATA PROCESSING EQUIPMENT ..... | ..... | 201,875 | ..... | 201,875 | ..... | ..... |
| 114 | GENERAL FUND ENTERPRISE BUSINESS SYSTEM ..... | ..... | 10,976 | ..... | 10,976 | ..... | ..... |
| 115 | HIGH PERF COMPUTING MOD PROGRAM ..... | ..... | 66,330 | ..... | 66,330 | ..... | ..... |
| 116 | CONTRACT WRITING SYSTEM ..... | ..... | 5,927 | ..... | 5,927 | ..... | ..... |
| 117 | RESERVE COMPONENT AUTOMATION SYS (RCAS) ..... | ..... | 27,896 | ..... | 27,896 | ..... | ..... |
| 118 | ELECT EQUIP—AUDIO VISUAL SYS (AV) ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| 119 | TACTICAL DIGITAL MEDIA ..... | ..... | 4,392 | ..... | 4,392 | ..... | ..... |
| 120 | ITEMS LESS THAN \$5M (SURVEYING EQUIPMENT) ..... | ..... | 1,970 | ..... | 1,970 | ..... | ..... |
| 121 | ELECT EQUIP—SUPPORT ..... | ..... | 506 | ..... | 15,506 | ..... | + 15,000 |
| 122 | PRODUCTION BASE SUPPORT (C-E) ..... | ..... | ..... | ..... | 144,500 | ..... | + 144,500 |
| 124 | BCT EMERGING TECHNOLOGIES ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| 125 | TOTAL, COMMUNICATIONS AND ELECTRONICS EQUIPMENT ..... | ..... | 4,150,664 | ..... | 3,851,015 | ..... | - 299,649 |
| 126 | OTHER SUPPORT EQUIPMENT ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| 127 | CHEMICAL DEFENSIVE EQUIPMENT ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| 128 | PROTECTIVE SYSTEMS ..... | ..... | 2,314 | ..... | 2,314 | ..... | ..... |
| 129 | FAMILY OF NON-LETHAL EQUIPMENT (FNLE) ..... | ..... | 7,478 | ..... | 7,478 | ..... | ..... |
| 130 | CBRN DEFENSE ..... | ..... | 173,954 | ..... | 173,954 | ..... | ..... |
| 131 | BRIDGING EQUIPMENT ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| 132 | TACTICAL BRIDGING ..... | ..... | 98,229 | ..... | 81,729 | ..... | - 16,500 |
| 133 | TACTICAL BRIDGE, FLOAT-RIBBON ..... | ..... | 64,438 | ..... | 64,438 | ..... | ..... |
| 134 | COMMON BRIDGE TRANSPORTER RECAP ..... | ..... | 79,916 | ..... | 78,892 | ..... | - 1,024 |

| | | | | | | | |
|-----|---|--------|--------|--------|--------|--------|---------|
| 128 | ENGINEER (NON-CONSTRUCTION) EQUIPMENT | 8,471 | 8,471 | 8,471 | 8,471 | 8,471 | 8,471 |
| 129 | HANDHELD STANDOFF MINEFIELD DETECTION SYS-HST | 29,883 | 29,883 | 27,666 | 27,666 | 27,666 | 27,666 |
| 130 | GROUND STANDOFF MINE DETECTION SYSTEM [GSTMIDS] | 11,594 | 11,594 | 11,594 | 11,594 | 11,594 | -2,217 |
| 131 | AREA MINE DETECTION SYSTEM (AMDS) | 40,834 | 40,834 | 40,834 | 40,834 | 40,834 | |
| 132 | HUSKY MOUNTED DETECTION SYSTEM (HMDS) | 4,029 | 4,029 | 4,029 | 4,029 | 4,029 | |
| 133 | ROBOTIC COMBAT SUPPORT SYSTEM | 14,208 | 14,208 | 18,826 | 18,826 | 18,826 | +4,618 |
| 134 | EOD ROBOTICS SYSTEMS RECAPITALIZATION | 31,456 | 31,456 | 31,456 | 31,456 | 31,456 | |
| 135 | ROBOTICS AND APPLIQUE SYSTEMS | 1,748 | 1,748 | 1,748 | 1,748 | 1,748 | |
| 136 | REMOTE DEMOLITION SYSTEMS | 7,829 | 7,829 | 7,829 | 7,829 | 7,829 | |
| 137 | ITEMS LESS THAN \$5M, COUNTERMINE EQUIPMENT | 5,806 | 5,806 | 5,806 | 5,806 | 5,806 | |
| 138 | FAMILY OF BOATS AND MOTORS | | | | | | |
| | COMBAT SERVICE SUPPORT EQUIPMENT | | | | | | |
| 139 | HEATERS AND ECUS | 9,852 | 9,852 | 9,852 | 9,852 | 9,852 | |
| 140 | SOLDIER ENHANCEMENT | 1,103 | 1,103 | 1,103 | 1,103 | 1,103 | |
| 141 | PERSONNEL RECOVERY SUPPORT SYSTEM (PRSS) | 5,875 | 5,875 | 5,875 | 5,875 | 5,875 | |
| 142 | GROUND SOLDIER SYSTEM | 92,487 | 92,487 | 34,781 | 34,781 | 34,781 | -57,706 |
| 143 | MOBILE SOLDIER POWER | 30,774 | 30,774 | 30,774 | 30,774 | 30,774 | |
| 144 | FIELD FEEDING EQUIPMENT | 17,521 | 17,521 | 17,521 | 17,521 | 17,521 | |
| 145 | CARGO AERIAL DEL & PERSONNEL PARACHUTE SYSTEM | 44,855 | 44,855 | 44,855 | 44,855 | 44,855 | |
| 146 | FAMILY OF ENGR COMBAT AND CONSTRUCTION SETS | 17,173 | 17,173 | 15,978 | 15,978 | 15,978 | -1,195 |
| 147 | ITEMS LESS THAN \$5M (ENG SPT) | 2,000 | 2,000 | 2,000 | 2,000 | 2,000 | |
| 148 | PETROLEUM EQUIPMENT | | | | | | |
| 149 | QUALITY SURVEILLANCE EQUIPMENT | 1,770 | 1,770 | 1,770 | 1,770 | 1,770 | |
| 150 | DISTRIBUTION SYSTEMS, PETROLEUM & WATER | 39,730 | 39,730 | 35,635 | 35,635 | 35,635 | -4,095 |
| | MEDICAL EQUIPMENT | | | | | | |
| 151 | COMBAT SUPPORT MEDICAL | 57,752 | 57,752 | 77,752 | 77,752 | 77,752 | +20,000 |
| | MAINTENANCE EQUIPMENT | | | | | | |
| 152 | MOBILE MAINTENANCE EQUIPMENT SYSTEMS | 37,722 | 37,722 | 34,479 | 34,479 | 34,479 | -3,243 |
| 153 | ITEMS LESS THAN \$5.0M (MAINT EO) | 4,985 | 4,985 | 4,985 | 4,985 | 4,985 | |
| | CONSTRUCTION EQUIPMENT | | | | | | |
| 155 | SCRAPERS, EARTHMOVING | 7,961 | 7,961 | 7,961 | 7,961 | 7,961 | |
| 156 | HYDRAULIC EXCAVATOR | 1,355 | 1,355 | 1,355 | 1,355 | 1,355 | |
| 158 | ALL TERRAIN CRANES | 13,031 | 13,031 | 13,031 | 13,031 | 13,031 | |
| 159 | HIGH MOBILITY ENGINEER EXCAVATOR (HMEEL) FOS | 46,048 | 46,048 | 46,048 | 46,048 | 46,048 | |
| 160 | ENHANCED RAPID AIRFIELD CONSTRUCTION CAPAP | 980 | 980 | 980 | 980 | 980 | |
| 161 | CONST EQUIP ESP | 37,017 | 37,017 | 35,652 | 35,652 | 35,652 | -1,365 |
| 162 | ITEMS LESS THAN \$5.0M (CONST EQUIP) | 6,103 | 6,103 | 6,103 | 6,103 | 6,103 | |

[Dollars in thousands]

| Line | Item | Qty. | 2019 budget estimate | Qty. | Committee recommendation | Change from | |
|------|---|------|----------------------|------|--------------------------|-------------|-----------------|
| | | | | | | Qty. | Budget estimate |
| 163 | RAIL FLOAT CONTAINERIZATION EQUIPMENT | | 27,711 | | 25,663 | | -2,048 |
| 164 | ARMY WATERCRAFT ESP | | 8,385 | | 8,385 | | |
| | ITEMS LESS THAN \$5.0M (FLOAT/RAIL) | | | | | | |
| | GENERATORS | | | | | | |
| 165 | GENERATORS AND ASSOCIATED EQUIPMENT | | 133,772 | | 133,772 | | |
| 166 | TACTICAL ELECTRIC POWER RECAPITALIZATION | | 8,333 | | 8,333 | | |
| | MATERIAL HANDLING EQUIPMENT | | | | | | |
| 167 | FAMILY OF FORKLIFTS | | 12,901 | | 12,901 | | |
| | TRAINING EQUIPMENT | | | | | | |
| 168 | COMBAT TRAINING CENTERS SUPPORT | | 123,228 | | 121,428 | | -1,800 |
| 169 | TRAINING DEVICES, NONSYSTEM | | 228,598 | | 228,598 | | |
| 170 | CLOSE COMBAT TACTICAL TRAINER | | 33,080 | | 33,080 | | |
| 171 | AVIATION COMBINED ARMS TACTICAL TRAINER | | 32,700 | | 32,700 | | |
| 172 | GAMING TECHNOLOGY IN SUPPORT OF ARMY TRAINING | | 25,161 | | 25,161 | | |
| | TEST MEASURE AND DIG EQUIPMENT (TMD) | | | | | | |
| 173 | CALIBRATION SETS EQUIPMENT | | 4,270 | | 4,270 | | |
| 174 | INTEGRATED FAMILY OF TEST EQUIPMENT (IFTE) | | 76,295 | | 72,542 | | -3,753 |
| 175 | TEST EQUIPMENT MODERNIZATION (TEMOD) | | 9,806 | | 9,806 | | |
| | OTHER SUPPORT EQUIPMENT | | | | | | |
| 176 | M25 STABILIZED BINOCULAR | | 4,368 | | 4,368 | | |
| 177 | RAPID EQUIPPING SOLDIER SUPPORT EQUIPMENT | | 9,879 | | 11,879 | | +2,000 |
| 178 | PHYSICAL SECURITY SYSTEMS (OPAS) | | 54,043 | | 51,484 | | -2,559 |
| 179 | BASE LEVEL COM'L EQUIPMENT | | 6,633 | | 6,633 | | |
| 180 | MODIFICATION OF IN-SVC EQUIPMENT (OPA-3) | | 49,797 | | 49,797 | | |
| 181 | PRODUCTION BASE SUPPORT (OTH) | | 2,301 | | 2,301 | | |
| 182 | SPECIAL EQUIPMENT FOR USER TESTING | | 11,608 | | 11,608 | | |
| 183 | TRACTOR YARD | | 4,956 | | 4,956 | | |
| | TOTAL, OTHER SUPPORT EQUIPMENT | | 1,926,106 | | 1,855,219 | | -70,887 |

| | | | | | | |
|-----|--|-----------|-----------|-----------|-----------|----------|
| 184 | SPARE AND REPAIR PARTS INITIAL SPARES—C&E | 9,817 | 9,817 | 9,817 | 9,817 | |
| 999 | TOTAL, SPARE AND REPAIR PARTS | 9,817 | 9,817 | 9,817 | 9,817 | |
| | CLASSIFIED PROGRAMS | 4,501 | 4,501 | 4,501 | 4,501 | |
| | TOTAL, OTHER PROCUREMENT, ARMY | 7,999,529 | 7,999,529 | 7,709,078 | 7,709,078 | -290,451 |

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|---|----------------------|--------------------------|-----------------------------|
| 3 | Ambulance, 4 LITTER, 5/4 TON, 4x4 | 50,123 | 170,123 | + 120,000 |
| | Program increase: HMMWV ambulances | | | + 120,000 |
| 6 | Joint Light Tactical Vehicle | 1,319,436 | 1,302,473 | - 16,963 |
| | Maintain program affordability: Maintain test support level of effort | | | - 16,963 |
| 10 | Family of Heavy Tactical Vehicles [FHTV] | 138,105 | 121,691 | - 16,414 |
| | Restoring acquisition accountability: CLS contract award delay | | | - 15,219 |
| | Insufficient budget justification: Reimbursable to direct conversions unaccounted for | | | - 1,195 |
| 12 | Hvy Expanded Mobile Tactical Truck Ext Serv | 31,892 | 28,596 | - 3,296 |
| | Improving funds management: Prior year carryover | | | - 3,296 |
| 14 | Modification of In Svc Equip | 78,507 | 75,265 | - 3,242 |
| | Insufficient budget justification: Reimbursable to direct conversions unaccounted for | | | - 3,242 |
| 20 | Signal Modernization Program | 150,777 | 86,507 | - 64,270 |
| | Improving funds management: SFAB equipment funded in Public Law 115-141 | | | - 41,000 |
| | Insufficient budget justification: Reimbursable to direct conversions unaccounted for | | | - 2,900 |
| | Restoring acquisition accountability: TROPO delays | | | - 20,370 |
| 21 | Tactical Network Technology Mod In Svc | 469,117 | 430,775 | - 38,342 |
| | Maintain program affordability: Unjustified equipment and support growth | | | - 35,000 |
| | Insufficient budget justification: Reimbursable to direct conversions unaccounted for | | | - 3,342 |
| 28 | Transportable Tactical Command Communications | 56,737 | 69,960 | + 13,223 |
| | Insufficient budget justification: Reimbursable to direct conversions unaccounted for | | | - 4,777 |
| | Program increase | | | + 18,000 |
| 38 | Handheld Manpack Small Form Fit [HMS] | 351,565 | 298,475 | - 53,090 |
| | Improving funds management: SFAB equipment funded in Public Law 115-141 | | | - 51,591 |
| | Improving funds management: Site activation carryover | | | - 1,499 |
| 47 | COTS Communications Equipment | 191,835 | 63,835 | - 128,000 |
| | Improving funds management: SFAB equipment funded in Public Law 115-141 | | | - 128,000 |
| 56 | Defensive CYBER Operations | 51,343 | 45,343 | - 6,000 |
| | Insufficient budget justification: Program discrepancies | | | - 6,000 |
| 58 | Persistent Cyber Training Environment | 3,000 | | - 3,000 |
| | Restoring acquisition accountability: Ahead of need | | | - 3,000 |
| 59 | Base Support Communications | 34,434 | 32,557 | - 1,877 |
| | Insufficient budget justification: Reimbursable to direct conversions unaccounted for | | | - 1,877 |
| 60 | Information Systems | 95,558 | 81,609 | - 13,949 |
| | Restoring acquisition accountability: ARCYBER funded in excess to requirement | | | - 13,949 |
| 63 | Installation Info Infrastructure Mod Program | 216,433 | 174,938 | - 41,495 |
| | Maintain program affordability: Unjustified growth | | | - 20,000 |
| | Insufficient budget justification: Reimbursable to direct conversions unaccounted for | | | - 21,495 |
| 68 | DCGS-A [MIP] | 261,863 | 253,954 | - 7,909 |
| | Insufficient budget justification: Reimbursable to direct conversions unaccounted for | | | - 7,909 |
| 81 | Family of Persistent Surveillance Cap. [MIP] | | 1,585 | + 1,585 |
| | Program increase: SOUTHCOM force protection | | | + 1,585 |
| 82 | Counterintelligence/Security Countermeasures | | 5,400 | + 5,400 |
| | Program increase: SOUTHCOM ISR requirements | | | + 5,400 |
| 84 | Sentinel Mods | 79,629 | 77,752 | - 1,877 |

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|---|----------------------|--------------------------|-----------------------------|
| | Insufficient budget justification: Reimbursable to direct conversions unaccounted for | | | -1,877 |
| 85 | Night Vision Devices | 153,180 | 155,680 | +2,500 |
| | Program increase: Digital night vision test devices | | | +2,500 |
| 90 | Indirect Fire Protection Family of Systems | 46,740 | 6,740 | -40,000 |
| | Improving funds management: Forward financing support costs | | | -10,000 |
| | Restoring acquisition accountability: Requirements previously funded | | | -30,000 |
| 91 | Family of Weapon Sights [FWS] | 140,737 | 125,513 | -15,224 |
| | Restoring acquisition accountability: FWS-S program delays | | | -15,224 |
| 94 | Joint Battle Command—Platform [JBC-P] | 405,239 | 383,691 | -21,548 |
| | Improving funds management: SFAB equipment funded in Public Law 115-141 | | | -13,358 |
| | Insufficient budget justification: Reimbursable to direct conversions unaccounted for | | | -8,190 |
| 102 | AIR & MSL Defense Planning & Control Sys | 33,837 | 29,913 | -3,924 |
| | Insufficient budget justification: Reimbursable to direct conversions unaccounted for | | | -3,924 |
| 104 | Network Management Initialization and Service | 18,329 | 15,087 | -3,242 |
| | Insufficient budget justification: Reimbursable to direct conversions unaccounted for | | | -3,242 |
| 105 | Maneuver Control System [MCS] | 38,015 | 29,144 | -8,871 |
| | Insufficient budget justification: Reimbursable to direct conversions unaccounted for | | | -8,871 |
| 107 | Integrated Personnel and Pay System—Army [IPPS-A] | 29,239 | | -29,239 |
| | Restoring acquisition accountability: Release 3.0 delays .. | | | -29,239 |
| 119 | Production Base Support [C-E] | 506 | 15,506 | +15,000 |
| | Program increase: Advanced manufacturing | | | +15,000 |
| 120 | BCT Emerging Technologies | | 144,500 | +144,500 |
| | Program increase: Cyber electromagnetic activities | | | +144,500 |
| 125 | Tactical Bridging | 98,229 | 81,729 | -16,500 |
| | Restoring acquisition accountability: LOCB acquisition strategy change | | | -16,500 |
| 127 | Common Bridge Transporter [CBT] Recap | 79,916 | 78,892 | -1,024 |
| | Insufficient budget justification: Reimbursable to direct conversions unaccounted for | | | -1,024 |
| 129 | Grnd Standoff Mine Detectn Sys [GSTAMIDS] | 29,883 | 27,666 | -2,217 |
| | Insufficient budget justification: Reimbursable to direct conversions unaccounted for | | | -2,217 |
| 133 | EOD Robotics Systems Recapitalization | 14,208 | 18,826 | +4,618 |
| | Transfer ground robotics MTRS standardization: Army-requested from RDT&E line 138 | | | +4,618 |
| 142 | Ground Soldier System | 92,487 | 34,781 | -57,706 |
| | Improving funds management: SFAB equipment funded in Public Law 115-141 | | | -56,000 |
| | Insufficient budget justification: Reimbursable to direct conversions unaccounted for | | | -1,706 |
| 147 | Family of Engr Combat and Construction Sets | 17,173 | 15,978 | -1,195 |
| | Insufficient budget justification: Reimbursable to direct conversions unaccounted for | | | -1,195 |
| 150 | Distribution Systems, Petroleum & Water | 39,730 | 35,635 | -4,095 |
| | Insufficient budget justification: Reimbursable to direct conversions unaccounted for | | | -4,095 |
| 151 | Combat Support Medical | 57,752 | 77,752 | +20,000 |
| | Program increase: Enhanced rotary wing medical kits | | | +10,000 |
| | Program increase: Enhanced vehicle medical kits | | | +10,000 |
| 152 | Mobile Maintenance Equipment Systems | 37,722 | 34,479 | -3,243 |
| | Insufficient budget justification: Reimbursable to direct conversions unaccounted for | | | -3,243 |
| 161 | Const Equip Esp | 37,017 | 35,652 | -1,365 |
| | Insufficient budget justification: Reimbursable to direct conversions unaccounted for | | | -1,365 |

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|---|----------------------|--------------------------|-----------------------------|
| 163 | Army Watercraft Esp | 27,711 | 25,663 | -2,048 |
| | Insufficient budget justification: Reimbursable to direct conversions unaccounted for | | | -2,048 |
| 168 | Combat Training Centers Support | 123,228 | 121,428 | -1,800 |
| | Restoring acquisition accountability: Ahead of need | | | -1,800 |
| 174 | Integrated Family of Test Equipment (IFTE) | 76,295 | 72,542 | -3,753 |
| | Insufficient budget justification: Reimbursable to direct conversions unaccounted for | | | -3,753 |
| 177 | Rapid Equipping Soldier Support Equipment | 9,879 | 11,879 | +2,000 |
| | Program increase: Rapid equipping force | | | +2,000 |
| 178 | Physical Security Systems (OPA3) | 54,043 | 51,484 | -2,559 |
| | Insufficient budget justification: Reimbursable to direct conversions unaccounted for | | | -2,559 |

HMMWV Ambulances.—The Committee is concerned about the Army's current level of investment to modernize the active component ground ambulance fleet. To accelerate the modernization of ground ambulances, the Committee recommends an increase of \$120,000,000 over the fiscal year 2019 President's budget request.

Tactical Communication and Protective Systems.—The Committee is aware that hearing damage is a risk faced by warfighters both in combat and in training. The ability to hear clearly and quickly evaluate one's surroundings is essential for situational awareness and mission success. The Committee notes that technologies have been developed to allow radio operators to wear hearing protection without inhibiting situational awareness. The Committee is concerned that these technologies are not being acquired in conjunction with procurements of tactical radio. This means that many radios are issued with substandard hearing protection or are unable to be issued at all while awaiting deliveries of compliant headsets. The Committee encourages the Under Secretary of Defense for Personnel and Readiness to work in conjunction with the service acquisition executives to ensure that procurements of radios are in step with procurements of tactical hearing protection and communication devices so that a complete system with the most utility and protection available can be delivered to the warfighter.

Army Network Modernization Strategy.—The Committee continues to support the Department of the Army's efforts to modernize its air-land ad-hoc, mobile tactical communications and data networks and notes that, pursuant to section 112 of the 2018 National Defense Authorization Act (Public Law 115-91), the Army provided its network modernization strategy to Congress. The Committee further notes that the Army is currently staffing architecture and standards documents in addition to multiple overarching Information System Initial Capabilities Documents in support of network modernization efforts. However, the Committee is concerned that the modernization strategy is continuing to evolve and that the justification supporting the fiscal year 2019 President's budget request does not provide the requisite details to appropriately assess the resourcing requirements and acquisition objectives at the program, project, and activity level.

Therefore, not later than 90 days after the enactment of this act, the Program Executive Officer Command Control Communications-

Tactical [PEO C3T], in conjunction with the Director, Network Cross-Functional Team, shall submit a network acquisition roadmap to the congressional defense committees, to include detailed actions and milestones, which satisfies the following objectives: (1) describes the architecture and standards for the unified transport layer and common operating environment that will serve as integrating guidance for the development and acquisition of modernization technologies; (2) categorizes under capability sets, all current and future network acquisitions and modernization activities, to include currently funded programs and requirements that align with the Army’s network strategy; (3) development and approval of requirements documents that support the Army’s network strategy and serve as overarching guidance for enabling systems and technologies; (4) details the plan to develop, test with appropriate instrumentation, and field the integrated capabilities, as part of one or more programs of record or other acquisition efforts; (5) an accounting of the Army’s fiscal year 2019 budget request Future Year’s Defense Program profile for investment appropriations that support the Army’s network strategy based on the defined categories. This should include a detailed account of all programs, projects, and activities within existing budget line items, existing programs of records, and any future investments within the FYDP; and (6) a proposal to realign resources into budget line items by capability set or a plan for discernible cost elements and activities within the existing budget line items.

Additionally, the PEO C3T shall submit to the congressional defense committees a test and evaluation plan for the Secure But Unclassified [SBU] components of the Integrated Tactical Network architecture prior to fielding any additional SBU systems to operational units, beyond fiscal year 2019. Furthermore, the PEO C3T shall provide notification to the congressional defense committees upon completion of cyber and vulnerability test and evaluation of the enabling SBU capabilities.

AIRCRAFT PROCUREMENT, NAVY

| | |
|--------------------------------|------------------|
| Appropriations, 2018 | \$19,957,380,000 |
| Budget estimate, 2019 | 19,041,799,000 |
| Committee recommendation | 20,083,169,000 |

The Committee recommends an appropriation of \$20,083,169,000. This is \$1,041,370,000 above the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table summarizes the budget estimate for this appropriation, the Committee recommendation, and the Committee recommended adjustments to the budget estimate:

[Dollars in thousands]

| Line | Item | Qty. | 2019 budget estimate | Qty. | Committee recommendation | Change from | |
|-----------------------------------|---------------------------------------|------|----------------------|------|--------------------------|-------------|--------------------|
| | | | | | | Qty. | Budget estimate |
| AIRCRAFT PROCUREMENT, NAVY | | | | | | | |
| COMBAT AIRCRAFT | | | | | | | |
| 1 | F/A-18E/F (FIGHTER) HORNET [MYP] | 24 | 1,937,553 | 24 | 1,852,953 | | - 84,600 |
| 2 | F/A-18E/F (FIGHTER) HORNET [MYP] (AP) | | 58,799 | | 58,799 | | |
| 3 | JOINT STRIKE FIGHTER CV | 9 | 1,144,958 | 17 | 1,885,778 | + 8 | + 740,820 |
| 4 | JOINT STRIKE FIGHTER CV [AP-CY] | | 140,010 | | 140,010 | | |
| 5 | JSF STOVL | 20 | 2,312,847 | 24 | 2,598,049 | + 4 | + 285,202 |
| 6 | JSF STOVL [AP-CY] | | 228,492 | | 228,492 | | |
| 7 | CH-53K (HEAVY LIFT) | 8 | 1,113,804 | 8 | 1,022,804 | | - 91,000 |
| 8 | CH-53K (HEAVY LIFT) [AP-CY] | | | | | | |
| 9 | V-22 (MEDIUM LIFT) | 7 | 161,079 | | 161,079 | | |
| 10 | V-22 (MEDIUM LIFT) [AP-CY] | | 806,337 | 10 | 1,024,337 | + 3 | + 218,000 |
| 11 | UH-1Y/AH-1Z | 25 | 36,955 | | 28,755 | | - 8,200 |
| 14 | P-8A POSEIDON | 10 | 820,755 | 25 | 820,755 | | |
| 15 | P-8A POSEIDON [AP-CY] | | 1,803,753 | 10 | 1,755,353 | | - 48,400 |
| 16 | E-2D ADV HAWKEYE | 4 | 180,000 | | 180,000 | | |
| 17 | E-2D ADV HAWKEYE [AP-CY] | | 742,693 | 5 | 904,193 | + 1 | + 161,500 |
| | TOTAL, COMBAT AIRCRAFT | | 11,728,769 | | 12,902,091 | | + 1,173,322 |
| OTHER AIRCRAFT | | | | | | | |
| 18 | C-40A | 2 | 206,000 | | | | |
| 20 | KC-130J | 2 | 160,433 | 2 | 160,433 | - 2 | - 206,000 |
| 21 | KC-130J [AP-CY] | | 110,013 | | 102,013 | | - 8,000 |
| 22 | MQ-4 TRITON | 3 | 568,743 | 3 | 568,743 | | |
| 23 | MQ-4 TRITON [AP-CY] | | 58,522 | | 58,522 | | |
| 24 | MQ-8 UAV | | 54,761 | | 54,761 | | |
| 25 | STUASLO UAV | | 14,866 | | 11,866 | | - 3,000 |
| 26 | VH-92A EXECUTIVE HELO | 6 | 649,015 | 6 | 649,015 | | |
| | TOTAL, OTHER AIRCRAFT | | 1,822,353 | | 1,605,353 | | - 217,000 |
| MODIFICATION OF AIRCRAFT | | | | | | | |
| 27 | AEA SYSTEMS | | 25,277 | | 25,277 | | |

| | | | | | | |
|----|----------------------------------|-----------|-----------|-----------|-----------|----------|
| 28 | AV-8 SERIES | 58,577 | 58,577 | 58,577 | 58,577 | ..... |
| 29 | ADVERSARY | 14,606 | 14,606 | 14,606 | 14,606 | ..... |
| 30 | F-18 SERIES | 1,213,482 | 1,213,482 | 1,125,582 | 1,125,582 | -87,900 |
| 31 | H-53 SERIES | 70,997 | 70,997 | 70,997 | 70,997 | ..... |
| 32 | SH-60 SERIES | 130,661 | 130,661 | 130,661 | 130,661 | ..... |
| 33 | H-1 SERIES | 87,143 | 87,143 | 87,143 | 87,143 | ..... |
| 34 | EP-3 SERIES | 3,633 | 3,633 | 3,633 | 3,633 | ..... |
| 35 | P-3 SERIES | 803 | 803 | 803 | 803 | ..... |
| 36 | E-2 SERIES | 88,780 | 88,780 | 80,980 | 80,980 | -7,800 |
| 37 | TRAINER A/C SERIES | 11,660 | 11,660 | 11,660 | 11,660 | ..... |
| 38 | C-2A | 11,327 | 11,327 | 8,327 | 8,327 | -3,000 |
| 39 | C-130 SERIES | 79,075 | 79,075 | 70,575 | 70,575 | -8,500 |
| 40 | FEW66 | 597 | 597 | 597 | 597 | ..... |
| 41 | CARGO/TRANSPORT A/C SERIES | 8,932 | 8,932 | 8,932 | 8,932 | ..... |
| 42 | E-6 SERIES | 181,821 | 181,821 | 173,821 | 173,821 | -8,000 |
| 43 | EXECUTIVE HELICOPTERS SERIES | 23,566 | 23,566 | 23,566 | 23,566 | ..... |
| 44 | SPECIAL PROJECT AIRCRAFT | 7,620 | 7,620 | 7,620 | 7,620 | ..... |
| 45 | T-45 SERIES | 195,475 | 195,475 | 195,475 | 195,475 | ..... |
| 46 | POWER PLANT CHANGES | 21,521 | 21,521 | 21,521 | 21,521 | ..... |
| 47 | JPATS SERIES | 27,644 | 27,644 | 27,644 | 27,644 | ..... |
| 48 | AVIATION LIFE SUPPORT MODS | 15,864 | 15,864 | 15,864 | 15,864 | ..... |
| 49 | COMMON ECM EQUIPMENT | 166,306 | 166,306 | 191,306 | 191,306 | +25,000 |
| 50 | COMMON AVIONICS CHANGES | 117,551 | 117,551 | 117,551 | 117,551 | ..... |
| 51 | COMMON DEFENSIVE WEAPON SYSTEM | 1,994 | 1,994 | 1,994 | 1,994 | ..... |
| 52 | ID SYSTEMS | 40,696 | 40,696 | 37,696 | 37,696 | -3,000 |
| 53 | P-8 SERIES | 71,251 | 71,251 | 71,251 | 71,251 | ..... |
| 54 | MAGTF EW FOR AVIATION | 11,590 | 11,590 | 11,590 | 11,590 | ..... |
| 55 | MQ-8 SERIES | 37,907 | 37,907 | 37,907 | 37,907 | ..... |
| 57 | V-22 (TILT/ROTOR ACFT) OSPREY | 214,820 | 214,820 | 194,020 | 194,020 | -20,800 |
| 58 | NEXT GENERATION JAMMER (NGJ) | 952 | 952 | 952 | 952 | -952 |
| 59 | F-35 STOVL SERIES | 36,618 | 36,618 | 36,618 | 36,618 | ..... |
| 60 | F-35 CV SERIES | 21,236 | 21,236 | 21,236 | 21,236 | ..... |
| 61 | QUICK REACTION CAPABILITY (QRC) | 101,499 | 101,499 | 101,499 | 101,499 | ..... |
| 62 | MQ-4 SERIES | 48,278 | 48,278 | 48,278 | 48,278 | ..... |
| 63 | RQ-21 SERIES | 6,904 | 6,904 | 6,904 | 6,904 | ..... |
| | TOTAL, MODIFICATION OF AIRCRAFT | 3,156,663 | 3,041,711 | 3,041,711 | 3,041,711 | -114,952 |
| 64 | AIRCRAFT SPARES AND REPAIR PARTS | 1,792,920 | 1,792,920 | 1,992,920 | 1,992,920 | +200,000 |
| | SPARES AND REPAIR PARTS | | | | | |

[Dollars in thousands]

| Line | Item | Qty. | 2019 budget estimate | Qty. | Committee recommendation | Change from | |
|------|--|------|----------------------|------|--------------------------|-------------|-----------------|
| | | | | | | Qty. | Budget estimate |
| | AIRCRAFT SUPPORT EQUIPMENT AND FACILITIES | | | | | | |
| 65 | COMMON GROUND EQUIPMENT | | 421,606 | | 421,606 | | |
| 66 | AIRCRAFT INDUSTRIAL FACILITIES | | 24,496 | | 24,496 | | |
| 67 | WAR CONSUMABLES | | 42,108 | | 42,108 | | |
| 68 | OTHER PRODUCTION CHARGES | | 1,444 | | 1,444 | | |
| 69 | SPECIAL SUPPORT EQUIPMENT | | 49,489 | | 49,489 | | |
| 70 | FIRST DESTINATION TRANSPORTATION | | 1,951 | | 1,951 | | |
| | TOTAL, AIRCRAFT SUPPORT EQUIPMENT & FACILITIES | | 541,094 | | 541,094 | | |
| | TOTAL, AIRCRAFT PROCUREMENT, NAVY | | 19,041,799 | | 20,083,169 | | + 1,041,370 |

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|--|----------------------|--------------------------|-----------------------------|
| 1 | F/A-18E/F (Fighter) Hornet | 1,937,553 | 1,852,953 | - 84,600 |
| | Restoring acquisition accountability: Unit cost savings | | | - 54,100 |
| | Maintain program affordability: Unjustified growth in support costs | | | - 30,500 |
| 3 | Joint Strike Fighter CV | 1,144,958 | 1,885,778 | + 740,820 |
| | Program increase: Four aircraft for the Marine Corps | | | + 398,000 |
| | Program increase: Four aircraft for the Navy | | | + 398,000 |
| | Restoring acquisition accountability: Unit cost savings | | | - 55,180 |
| 5 | JSF STOVL | 2,312,847 | 2,598,049 | + 285,202 |
| | Program increase: Four aircraft | | | + 412,000 |
| | Restoring acquisition accountability: Unit cost savings | | | - 126,798 |
| 7 | CH-53K (Heavy Lift) | 1,113,804 | 1,022,804 | - 91,000 |
| | Maintain program affordability: Unjustified support cost growth | | | - 91,000 |
| 9 | V-22 (Medium Lift) | 806,337 | 1,024,337 | + 218,000 |
| | Program increase: Three aircraft for the Marine Corps | | | + 240,000 |
| | Restoring acquisition accountability: Unit cost savings | | | - 22,000 |
| 10 | V-22 (Medium Lift)—AP | 36,955 | 28,755 | - 8,200 |
| | Maintain program affordability: Excess to need | | | - 8,200 |
| 14 | P-8A Poseidon | 1,803,753 | 1,755,353 | - 48,400 |
| | Restoring acquisition accountability: Anticipated unit cost contract award savings | | | - 12,000 |
| | Maintain program affordability: Excess support costs | | | - 36,400 |
| 16 | E-2D Adv Hawkeye | 742,693 | 904,193 | + 161,500 |
| | Program increase: One aircraft | | | + 170,000 |
| | Restoring acquisition accountability: Unit cost savings | | | - 8,500 |
| 18 | C-40A | 206,000 | | - 206,000 |
| | Improving funds management: Two C-40s funded in Public Law 115-141 | | | - 206,000 |
| 21 | KC-130J—AP | 110,013 | 102,013 | - 8,000 |
| | Maintain program affordability: Excess advance procurement | | | - 8,000 |
| 25 | STUASLO UAV | 14,866 | 11,866 | - 3,000 |
| | Maintain program affordability: Excess production engineering support | | | - 3,000 |
| 30 | F-18 Series | 1,213,482 | 1,125,582 | - 87,900 |
| | Program increase: EA-18G reactive electronic attack measures technology | | | + 13,900 |
| | Restoring acquisition accountability: IRST modifications early to need | | | - 79,200 |
| | Maintain program affordability: Unjustified growth in non-recurring engineering | | | - 22,600 |
| 36 | E-2 Series | 88,780 | 80,980 | - 7,800 |
| | Restoring acquisition accountability: SIPR CHAT mods early to need | | | - 5,300 |
| | Restoring acquisition accountability: Navigation warfare mods early to need | | | - 2,500 |
| 38 | C-2A | 11,327 | 8,327 | - 3,000 |
| | Improving funds management: Forward financed | | | - 3,000 |
| 39 | C-130 Series | 79,075 | 70,575 | - 8,500 |
| | Improving funds management: Forward financed | | | - 8,500 |
| 42 | E-6 Series | 181,821 | 173,821 | - 8,000 |
| | Maintain program affordability: Excess installation costs | | | - 8,000 |
| 49 | Common ECM Equipment | 166,306 | 191,306 | + 25,000 |
| | Program increase: F/A-18 E/F adaptive radar countermeasures | | | + 25,000 |
| 52 | ID Systems | 40,696 | 37,696 | - 3,000 |
| | Maintain program affordability: Excess installation costs | | | - 3,000 |
| 57 | V-22 (Tilt/Rotor ACFT) Osprey | 214,820 | 194,020 | - 20,800 |

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|--|----------------------|--------------------------|-----------------------------|
| | Restoring acquisition accountability: Common configuration unit cost savings | | | - 8,000 |
| | Maintain program affordability: Excess support costs | | | - 12,800 |
| 58 | Next Generation Jammer (NGJ) | 952 | | - 952 |
| | Restoring acquisition accountability: Procurement early to need | | | - 952 |
| 64 | Spares and Repair Parts | 1,792,920 | 1,992,920 | + 200,000 |
| | Program increase | | | + 200,000 |

WEAPONS PROCUREMENT, NAVY

| | |
|--------------------------------|-----------------|
| Appropriations, 2018 | \$3,510,590,000 |
| Budget estimate, 2019 | 3,702,393,000 |
| Committee recommendation | 3,780,572,000 |

The Committee recommends an appropriation of \$3,780,572,000. This is \$78,179,000 above the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table summarizes the budget estimate for this appropriation, the Committee recommendation, and the Committee recommended adjustments to the budget estimate:

[Dollars in thousands]

| Line | Item | Qty. | 2019 budget estimate | Qty. | Committee recommendation | Change from | |
|------|--|------|----------------------|------|--------------------------|-------------|-----------------|
| | | | | | | Qty. | Budget estimate |
| | WEAPONS PROCUREMENT, NAVY | | | | | | |
| | BALLISTIC MISSILES | | | | | | |
| | MODIFICATION OF MISSILES | | | | | | |
| 1 | TRIDENT II MODS | | 1,078,750 | | 1,078,750 | | |
| | SUPPORT EQUIPMENT AND FACILITIES | | | | | | |
| 2 | MISSILE INDUSTRIAL FACILITIES | | 6,998 | | 6,998 | | |
| | TOTAL BALLISTIC MISSILES | | 1,085,748 | | 1,085,748 | | |
| | OTHER MISSILES | | | | | | |
| | STRATEGIC MISSILES | | | | | | |
| 3 | TOMAHAWK | | 98,570 | | 98,570 | | |
| | TACTICAL MISSILES | | | | | | |
| 4 | AMRAAM | 140 | 211,058 | 140 | 211,058 | | |
| 5 | SIDEWINDER | 191 | 77,927 | 249 | 122,927 | +58 | +45,000 |
| 6 | JSOW | | 1,330 | | 1,330 | | |
| 7 | STANDARD MISSILE | 125 | 490,210 | 125 | 490,210 | | |
| 8 | STANDARD MISSILE (AP-CY) | | 125,683 | | 125,683 | | |
| 9 | SMALL DIAMETER BOMB II | 750 | 91,272 | 750 | 91,272 | | |
| 10 | RAM | 120 | 96,221 | 120 | 96,221 | | |
| 11 | JOINT AIR GROUND MISSILE (JAGM) | 75 | 24,109 | 75 | 24,109 | | |
| 14 | STAND OFF PRECISION GUIDED MUNITIONS (SOPGM) | 31 | 11,378 | 31 | 11,378 | | |
| 15 | AERIAL TARGETS | | 137,137 | | 129,437 | | -7,700 |
| 16 | OTHER MISSILE SUPPORT | | 3,318 | | 3,318 | | |
| 17 | LRASM | 25 | 81,190 | 35 | 111,190 | +10 | +30,000 |
| 18 | LCS OTH MISSILE | 8 | 18,156 | 8 | 18,156 | | |
| | MODIFICATION OF MISSILES | | | | | | |
| 19 | ESSM | 45 | 98,384 | 45 | 98,384 | | |
| 20 | HARPOON MODS | | 14,840 | | 26,840 | | +12,000 |
| 21 | HARM MODS | | 187,985 | | 187,985 | | |

[Dollars in thousands]

| Line | Item | Qty. | 2019 budget estimate | Qty. | Committee recommendation | Change from | |
|------|--|------|----------------------|------|--------------------------|-------------|-----------------|
| | | | | | | Qty. | Budget estimate |
| 23 | SUPPORT EQUIPMENT AND FACILITIES | | 2,006 | | 12,006 | | + 10,000 |
| 24 | WEAPONS INDUSTRIAL FACILITIES | | 66,779 | | 66,779 | | |
| | FLEET SATELLITE COMM FOLLOW-ON | | | | | | |
| 25 | ORDNANCE SUPPORT EQUIPMENT | | 62,008 | | 62,008 | | |
| | ORDNANCE SUPPORT EQUIPMENT | | | | | | |
| | TOTAL, OTHER MISSILES | | 1,899,561 | | 1,988,861 | | + 89,300 |
| | TORPEDOES AND RELATED EQUIPMENT | | | | | | |
| | TORPEDOES AND RELATED EQUIP | | | | | | |
| 26 | SSTD | | 6,353 | | 6,353 | | |
| 27 | MK-48 TORPEDO | 45 | 92,616 | 50 | 103,616 | + 5 | + 11,000 |
| 28 | ASW TARGETS | | 12,324 | | 12,324 | | |
| | MOD OF TORPEDOES AND RELATED EQUIP | | | | | | |
| 29 | MK-54 TORPEDO MODS | | 105,946 | | 83,825 | | - 22,121 |
| 30 | MK-48 TORPEDO ADCAP MODS | | 40,005 | | 40,005 | | |
| 31 | QUICKSTRIKE MINE | | 9,758 | | 9,758 | | |
| | SUPPORT EQUIPMENT | | | | | | |
| 32 | TORPEDO SUPPORT EQUIPMENT | | 79,371 | | 79,371 | | |
| 33 | ASW RANGE SUPPORT | | 3,872 | | 3,872 | | |
| | DESTINATION TRANSPORTATION | | | | | | |
| 34 | FIRST DESTINATION TRANSPORTATION | | 3,726 | | 3,726 | | |
| | TOTAL, TORPEDOES AND RELATED EQUIPMENT | | 353,971 | | 342,850 | | - 11,121 |
| | OTHER WEAPONS | | | | | | |
| | GUNS AND GUN MOUNTS | | | | | | |
| 35 | SMALL ARMS AND WEAPONS | | 15,067 | | 15,067 | | |
| | MODIFICATION OF GUNS AND GUN MOUNTS | | | | | | |
| 36 | CWS MODS | | 63,318 | | 63,318 | | |
| 37 | COAST GUARD WEAPONS | | 40,823 | | 40,823 | | |
| 38 | GUN MOUNT MODS | | 74,618 | | 74,618 | | |

| | | | | | | |
|----|--|-------|-----------|-------|-----------|----------|
| 39 | LCS MODULE WEAPONS | 90 | 11,350 | 90 | 11,350 | ..... |
| 41 | AIRBORNE MINE NEUTRALIZATION SYSTEMS ..... | ..... | 22,249 | ..... | 22,249 | ..... |
| | TOTAL, OTHER WEAPONS ..... | ..... | 227,425 | ..... | 227,425 | ..... |
| 43 | SPARES AND REPAIR PARTS ..... | ..... | 135,688 | ..... | 135,688 | ..... |
| | TOTAL, WEAPONS PROCUREMENT, NAVY ..... | ..... | 3,702,393 | ..... | 3,780,572 | + 78,179 |

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|--|----------------------|--------------------------|-----------------------------|
| 5 | Sidewinder | 77,927 | 122,927 | + 45,000 |
| | Program increase: Additional munitions | | | + 45,000 |
| 15 | Aerial Targets | 137,137 | 129,437 | - 7,700 |
| | Restoring acquisition accountability: BQM-177A acquisition strategy | | | - 7,700 |
| 17 | LRASM | 81,190 | 111,190 | + 30,000 |
| | Program increase: Additional munitions | | | + 30,000 |
| 20 | Harpoon Mods | 14,840 | 26,840 | + 12,000 |
| | Program increase: Additional munitions | | | + 12,000 |
| 23 | Weapons Industrial Facilities | 2,006 | 12,006 | + 10,000 |
| | Program increase: NIROP facilitization | | | + 10,000 |
| 27 | MK-48 Torpedo | 92,616 | 103,616 | + 11,000 |
| | Program increase: Additional munitions | | | + 11,000 |
| 29 | MK-54 Torpedo Mods | 105,946 | 83,825 | - 22,121 |
| | Restoring acquisition accountability: MK 54 Mod 0 installation ahead of need | | | - 4,212 |
| | Restoring acquisition accountability: MK 54 Mod 1 contract delays | | | - 17,909 |

Next Generation Land Attack Weapon [NGLAW] and Interim Capabilities.—The fiscal year 2019 President's budget request includes \$16,900,000 to continue the Analysis of Alternatives [AoA] for the NGLAW. The Committee understands that NGLAW is intended to address the Navy's cruise missile strategy against future threats and targets in time to replace or modify existing weapons programs. The Committee notes that a capabilities based assessment conducted by the Navy deferred the NGLAW initial operating capability [IOC] requirement by several years and the Committee further notes that the AoA, which commenced in fiscal year 2017, has expanded in scope and its completion is delayed. Therefore, the Committee has supported efforts to sustain the industrial base and provide incremental improvements to existing capabilities as interim solutions. This includes investments in multiple capability upgrades and the acquisition of additional Tomahawk all-up rounds [AUR], most recently by providing \$102,000,000 above the President's budget request in the Department of Defense Appropriations Act, 2018 (Public Law 115-141), pursuant to the Navy's fiscal year 2018 enhancement request following enactment of the Bipartisan Budget Act of 2018 (Public Law 115-123).

The fiscal year 2019 President's budget request for Tomahawk does not include funding for new production AURs, reflecting the Navy's strategy to transition from new production to recertification and modernization activities. In addition, the Navy has proposed to repurpose the fiscal year 2018 appropriated increase for new production missiles, in contradiction to the Navy's request. The Committee directs the Secretary of the Navy to conduct a full review of the Tomahawk program including: an analysis of the viability of new production in fiscal year 2020; an analysis of the capacity for concurrent new production and recertification activities within existing facilities; revised cost and schedule projections for modifica-

tion and recertification activities, to include alternatives with and without concurrent new production; a detailed review of the execution of the fiscal year 2017 and 2018 new production congressional adds; certified courses of action and cost estimates for the \$102,000,000 new production funding added in fiscal year 2018, to include detailed actions and milestones; and an analysis of surface and sub-surface launched land attack weapons inventory and requirements projections through the NGLAW IOC date, to include Tomahawk and other weapons systems that may provide an interim capability. The Secretary of the Navy shall provide a report detailing the results of the review to the congressional defense committees not later than 90 days after enactment of this act.

In addition, the Committee is aware that a surface launched variant of the Long Range Anti-Ship Missile [LRASM] offers the potential to increase the fleet's surface warfare capability at a relatively low cost-per-kill while leveraging existing capability. Therefore, the Committee directs the Deputy Chief of Naval Operations for Warfare Systems to provide a report to the congressional defense committees not later than 90 days after the enactment of this act identifying the capabilities the surface launched LRASM could bring to the fleet. Further, the Assistant Secretary of the Navy (Financial Management and Comptroller) is directed to identify costs to validate a surface launch LRASM and the benefits of fielding such a system.

Low-Yield Nuclear Warhead.—The Committee directs the Department of Defense, in consultation with the Secretary of Energy, to submit a report to the committee that details: (1) what Navy equities required to support a low-yield W-76 capability on operationally available submarine-launched ballistic missiles; (2) any changes to or additional crew and personnel training requirements necessary to support any such modifications, a timeline for completing such modifications and changes in order to permit deployment of such warheads as well as a timeline for actually loading and fielding such warheads; (3) rationale for deploying low-yield warhead(s) on a SLBM, each of which is accountable under the New Strategic Arms Reduction Treaty [New START], instead of taking advantage of Treaty attribution rules that count each U.S. strategic bomber as a single warhead; (4) and a description of actions that will be taken to mitigate risks of miscalculation associated with adversaries being unable to distinguish between a submarine-launched ballistic missile carrying a low-yield warhead and that of a missile carrying several high-yield warheads. The Committee directs that no fiscal year 2019 funding provided by this act shall be used to deploy such W76-2 low-yield nuclear Trident II D5 warheads until examination of the report by the Committee.

PROCUREMENT OF AMMUNITION, NAVY AND MARINE CORPS

| | |
|--------------------------------|---------------|
| Appropriations, 2018 | \$804,335,000 |
| Budget estimate, 2019 | 1,006,209,000 |
| Committee recommendation | 970,454,000 |

The Committee recommends an appropriation of \$970,454,000. This is \$35,755,000 below the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table summarizes the budget estimate for this appropriation, the Committee recommendation, and the Committee recommended adjustments to the budget estimate:

[Dollars in thousands]

| Line | Item | Qty. | 2019 budget estimate | Qty. | Committee recommendation | Change from | |
|------|---|-------|----------------------|------|--------------------------|-------------|-----------------|
| | | | | | | Qty. | Budget estimate |
| | PROC AMMO, NAVY | | | | | | |
| | NAVY AMMUNITION | | | | | | |
| 1 | GENERAL PURPOSE BOMBS | | 79,871 | | 72,371 | | -7,500 |
| 2 | JDM | 3,688 | 87,900 | | 87,900 | | -9,250 |
| 3 | AIRBORNE ROCKETS, ALL TYPES | | 151,431 | | 142,181 | | |
| 4 | MACHINE GUN AMMUNITION | | 11,344 | | 11,344 | | |
| 5 | PRACTICE BOMBS | | 49,471 | | 49,471 | | |
| 6 | CARTRIDGES & CART ACTUATED DEVICES | | 56,227 | | 56,227 | | |
| 7 | AIR EXPENDABLE COUNTERMEASURES | | 66,382 | | 66,382 | | |
| 8 | JATOS | | 2,907 | | 2,907 | | |
| 9 | 5 INCH/54 GUN AMMUNITION | | 72,657 | | 72,477 | | -180 |
| 10 | INTERMEDIATE CALIBER GUN AMMUNITION | | 33,613 | | 32,813 | | -800 |
| 11 | OTHER SHIP GUN AMMUNITION | | 42,142 | | 42,142 | | |
| 12 | SMALL ARMS & LANDING PARTY AMMO | | 49,888 | | 49,888 | | |
| 13 | PYROTECHNIC AND DEMOLITION | | 10,931 | | 10,931 | | |
| 15 | AMMUNITION LESS THAN \$5 MILLION | | 1,106 | | 1,106 | | |
| | TOTAL, PROC AMMO, NAVY | | 715,870 | | 698,140 | | -17,730 |
| | PROC AMMO, MARINE CORPS | | | | | | |
| | MARINE CORPS AMMUNITION | | | | | | |
| 19 | MORTARS | | 28,266 | | 18,516 | | -9,750 |
| 21 | DIRECT SUPPORT MUNITIONS | | 63,664 | | 63,664 | | |
| 22 | INFANTRY WEAPONS AMMUNITION | | 59,295 | | 51,020 | | -8,275 |
| 26 | COMBAT SUPPORT MUNITIONS | | 31,577 | | 31,577 | | |
| 28 | AMMO MODERNIZATION | | 15,001 | | 15,001 | | |
| 29 | ARTILLERY MUNITIONS | | 86,297 | | 86,297 | | |
| 30 | ITEMS LESS THAN \$5 MILLION | | 6,239 | | 6,239 | | |
| | TOTAL, PROC AMMO, MARINE CORPS | | 290,339 | | 272,314 | | -18,025 |
| | TOTAL, PROCUREMENT OF AMMO, NAVY & MARINE CORPS | | 1,006,209 | | 970,454 | | -35,755 |

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|--|----------------------|--------------------------|-----------------------------|
| 1 | General Purpose Bombs | 79,871 | 72,371 | - 7,500 |
| | Improving funds management: Previously funded requirement (Q2181 Laser Guided Bombs) | | | - 7,500 |
| 3 | Airborne Rockets, All Types | 151,431 | 142,181 | - 9,250 |
| | Restoring acquisition accountability: Unit cost growth (MK 66) | | | - 2,300 |
| | Improving funds management: Contract savings (APKWS) .. | | | - 4,900 |
| | Restoring acquisition accountability: Excess product improvement growth (APKWS) | | | - 2,050 |
| 9 | 5 Inch/54 Gun Ammunition | 72,657 | 72,477 | - 180 |
| | Restoring acquisition accountability: Unit cost growth (5"/54 propelling charge) | | | - 180 |
| 10 | Intermediate Caliber Gun Ammunition | 33,613 | 32,813 | - 800 |
| | Restoring acquisition accountability: Unit cost growth (57MM, HE-PD) | | | - 800 |
| 19 | Mortars | 28,266 | 18,516 | - 9,750 |
| | Improving funds management: Previously funded requirements | | | - 9,750 |
| 22 | Infantry Weapons Ammunition | 59,295 | 51,020 | - 8,275 |
| | Improving funds management: Previously funded requirement (7.62x39mm Non-Standard) | | | - 1,000 |
| | Improving funds management: Contract delays (MK 281) .. | | | - 7,275 |

SHIPBUILDING AND CONVERSION, NAVY

| | |
|--------------------------------|------------------|
| Appropriations, 2018 | \$23,824,738,000 |
| Budget estimate, 2019 | 21,871,437,000 |
| Committee recommendation | 23,992,937,000 |

The Committee recommends an appropriation of \$23,992,937,000. This is \$2,121,500,000 above the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table summarizes the budget estimate for this appropriation, the Committee recommendation, and the Committee recommended adjustments to the budget estimate:

[Dollars in thousands]

| Line | Item | Qty. | 2019 budget estimate | Qty. | Committee recommendation | Change from | |
|---|--|------|----------------------|------|--------------------------|-------------|------------------|
| | | | | | | Qty. | Budget estimate |
| SHIPBUILDING & CONVERSION, NAVY | | | | | | | |
| 1 | FLEET BALLISTIC MISSILE SHIPS | | | | | | |
| | OHIO REPLACEMENT SUBMARINE (AP) | | 3,005,330 | | 3,242,330 | | + 237,000 |
| OTHER WARSHIPS | | | | | | | |
| 2 | CARRIER REPLACEMENT PROGRAM (CVN 80) | | 1,598,181 | | 1,573,181 | | - 25,000 |
| 4 | VIRGINIA CLASS SUBMARINE | 2 | 4,373,382 | 2 | 4,373,382 | | |
| 5 | VIRGINIA CLASS SUBMARINE [AP-CY] | | 2,796,401 | | 2,796,401 | | |
| 7 | CVN REFUELING OVERHAULS [AP-CY] | | 449,597 | | 449,597 | | |
| 8 | DDG 1000 | | 270,965 | | 270,965 | | |
| 9 | DDG-51 | 3 | 5,253,327 | 3 | 5,171,827 | | - 81,500 |
| 10 | DDG-51 [AP-CY] | | 391,928 | | 641,928 | | + 250,000 |
| 11 | LITTORAL COMBAT SHIP | 1 | 646,244 | 2 | 1,121,244 | | + 475,000 |
| | TOTAL, OTHER WARSHIPS | | 15,780,025 | | 16,398,525 | | + 618,500 |
| AMPHIBIOUS SHIPS | | | | | | | |
| 12 | LPD-17 | | | | 500,000 | | + 500,000 |
| 13 | EXPEDITIONARY SEABASE | 1 | 650,000 | 1 | 650,000 | | |
| 14 | LHA REPLACEMENT AP-CY | | | | 350,000 | | + 350,000 |
| | TOTAL, AMPHIBIOUS SHIPS | | 650,000 | | 1,500,000 | | + 850,000 |
| AUXILIARIES, CRAFT, AND PRIOR-YEAR PROGRAM COSTS | | | | | | | |
| 15 | EXPEDITIONARY FAST TRANSPORT (EPF) | | | 1 | 225,000 | | + 225,000 |
| 16 | TAO FLEET OILER | 2 | 977,104 | 2 | 977,104 | | |
| 17 | TAO FLEET OILER [AP-CY] | | 75,046 | | 75,046 | | |
| 18 | TOWING, SALVAGE, AND RESCUE SHIP (ATS) | 1 | 80,517 | 1 | 80,517 | | |
| 20 | LCU 1700 | 2 | 41,520 | 2 | 41,520 | | |
| 21 | OUTFITTING | | 634,038 | | 550,038 | | - 84,000 |
| 22 | SHIP TO SHORE CONNECTOR | 5 | 325,375 | 5 | 325,375 | | |
| 23 | SERVICE CRAFT | | 72,062 | | 97,062 | | + 25,000 |
| 24 | LCAC SLEP | 1 | 23,321 | 1 | 23,321 | | |
| 28 | COMPLETION OF PY SHIPBUILDING PROGRAMS | | 207,099 | | 207,099 | | |

[Dollars in thousands]

| Line | Item | Qty. | 2019 budget estimate | Qty. | Committee recommendation | Change from | |
|------|---|-------|----------------------|-------|--------------------------|-------------|-----------------|
| | | | | | | Qty. | Budget estimate |
| 29 | CABLE SHIP ..... | ..... | ..... | 1 | 250,000 | + 1 | + 250,000 |
| | TOTAL, AUXILIARIES, CRAFT, AND PRIOR-YEAR PROGRAM ..... | ..... | 2,436,082 | ..... | 2,852,082 | ..... | + 416,000 |
| | TOTAL, SHIPBUILDING & CONVERSION, NAVY ..... | ..... | 21,871,437 | ..... | 23,992,937 | ..... | + 2,121,500 |

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|--|----------------------|--------------------------|-----------------------------|
| 1 | OHIO Replacement Submarine (AP) | 3,005,330 | 3,242,330 | + 237,000 |
| | Improving funds management: Excess incentive fees ... | ..... | ..... | - 13,000 |
| | Program increase: Submarine industrial base expansion ..... | ..... | ..... | + 250,000 |
| 2 | Carrier Replacement Program (CVN 80) | 1,598,181 | 1,573,181 | - 25,000 |
| | Transfer funding to RDN, line 84: CVN 78 Full Ship Shock Trial ..... | ..... | ..... | - 25,000 |
| 9 | DDG-51 | 5,253,327 | 5,171,827 | - 81,500 |
| | Restoring acquisition accountability: Excess growth in multiyear procurement program ..... | ..... | ..... | - 81,500 |
| 10 | DDG-51 [AP-CY] | 391,928 | 641,928 | + 250,000 |
| | Program increase: Advance procurement for an additional fiscal year 2020 ship ..... | ..... | ..... | + 250,000 |
| 11 | Littoral Combat Ship | 646,244 | 1,121,244 | + 475,000 |
| | Program increase: Additional ship ..... | ..... | ..... | + 475,000 |
| 12 | LPD-17 ..... | ..... | 500,000 | + 500,000 |
| | Program increase: Advance procurement for FY 2020 LPD Flight II and/or MYP EOQ ..... | ..... | ..... | + 500,000 |
| 14 | LHA Replacement [AP-CY] ..... | ..... | 350,000 | + 350,000 |
| | Program increase: Advance procurement for LHA-9 ..... | ..... | ..... | + 350,000 |
| 15 | Expeditionary Fast Transport (EPF) ..... | ..... | 225,000 | + 225,000 |
| | Program increase: Additional ship ..... | ..... | ..... | + 225,000 |
| 21 | Outfitting | 634,038 | 550,038 | - 84,000 |
| | Improving funds management: Outfitting and post delivery funding early to need ..... | ..... | ..... | - 84,000 |
| 23 | Service Craft | 72,062 | 97,062 | + 25,000 |
| | Program increase: Accelerate detail design and construction of YP-703 flight II ..... | ..... | ..... | + 25,000 |
| 29 | Cable Ship ..... | ..... | 250,000 | + 250,000 |
| | Program increase ..... | ..... | ..... | + 250,000 |

Submarine Industrial Base.—The fiscal year 2019 President’s budget request includes \$3,005,330,000 for advance procurement to support the construction of the Ohio Replacement Submarine. The Committee supports this request and recommends an additional \$250,000,000 to enhance the submarine industrial base. Further, the Committee notes that \$225,000,000 above the President’s budget request was provided by Congress in fiscal year 2018 for the same purpose. The Committee supports the submarine shipbuilding supply base in light of the Navy’s projected future workload, as defined in the Navy’s “Annual Long-Range Plan for Construction of Naval Vessels for Fiscal Year 2019” (30-year shipbuilding plan), but is concerned that the Navy is not budgeting the necessary resources to increase capacity and create multiple suppliers for critical submarine components, despite the Navy’s stated concerns over the submarine industrial base. Therefore, the Assistant Secretary of the Navy (Research, Development and Acquisition) and the Assistant Secretary of the Navy (Financial Management and Comptroller) are directed to brief the congressional defense committees on the Navy’s acquisition strategy and associated necessary resources to support the submarine industrial base in the President’s fiscal year 2020 budget.

CVN 80.—The fiscal year 2019 President’s budget request includes \$1,598,181,000 for the Aircraft Carrier Replacement Pro-

gram. The Committee supports the funding requested to maintain the aircraft carrier fleet consistent with the Navy’s 30 year ship-building plan. However, the Committee understands that the Navy may pursue block buy authority for a two-ship-buy, to include CVN 81, and notes that the construction award for CVN 80 has slipped from March 2018 to December 2018 while negotiations between the Navy and the shipbuilder are ongoing. To date, the Committee has not received any documentation related to a block buy proposal. The Committee notes that an accurate independent cost estimate and Navy budget profile are required for the congressional defense committees to make an informed decision on the proposal. Therefore, the Committee designates the funding appropriated for the Carrier Replacement Program funding line be applied only to CVN 80 and directs that no funds provided in fiscal year 2019 be applied to the procurement of CVN 81 components.

OTHER PROCUREMENT, NAVY

| | |
|--------------------------------|-----------------|
| Appropriations, 2018 | \$7,941,018,000 |
| Budget estimate, 2019 | 9,414,355,000 |
| Committee recommendation | 10,393,562,000 |

The Committee recommends an appropriation of \$10,393,562,000. This is \$979,207,000 above the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table summarizes the budget estimate for this appropriation, the Committee recommendation, and the Committee recommended adjustments to the budget estimate:

[Dollars in thousands]

| Line | Item | Qty. | 2019 budget estimate | Qty. | Committee recommendation | Change from | |
|------|--|------|----------------------|------|--------------------------|-------------|-----------------|
| | | | | | | Qty. | Budget estimate |
| | OTHER PROCUREMENT, NAVY | | | | | | |
| | SHIPS SUPPORT EQUIPMENT | | | | | | |
| | SHIP PROPULSION EQUIPMENT | | | | | | |
| 1 | SURFACE POWER EQUIPMENT | | 19,700 | | 19,700 | | |
| | GENERATORS | | | | | | |
| 3 | SURFACE COMBATANT HM&E | | 23,495 | | 23,495 | | |
| | NAVIGATION EQUIPMENT | | | | | | |
| 4 | OTHER NAVIGATION EQUIPMENT | | 63,330 | | 69,330 | | +6,000 |
| | PERISCOPES | | | | | | |
| 5 | SUB PERISCOPES AND IMAGING SUPPORT EQUIPMENT PROGRAM | | 178,421 | | 178,421 | | |
| | OTHER SHIPBOARD EQUIPMENT | | | | | | |
| 6 | DDG MOD | | 487,999 | | 469,499 | | -18,500 |
| 7 | FIREFIGHTING EQUIPMENT | | 28,143 | | 28,143 | | |
| 8 | COMMAND AND CONTROL SWITCHBOARD | | 2,248 | | 2,248 | | |
| 9 | LHA/LHD MIDLIFE | | 37,694 | | 37,694 | | |
| | SUBTOTAL | | 37,694 | | 37,694 | | |
| 10 | POLLUTION CONTROL EQUIPMENT | | 20,883 | | 20,883 | | |
| 11 | SUBMARINE SUPPORT EQUIPMENT | | 37,155 | | 37,155 | | |
| 12 | VIRGINIA CLASS SUPPORT EQUIPMENT | | 66,328 | | 66,328 | | |
| 13 | LCS CLASS SUPPORT EQUIPMENT | | 47,241 | | 47,241 | | |
| 14 | SUBMARINE BATTERIES | | 27,987 | | 25,085 | | -2,902 |
| 15 | LPD CLASS SUPPORT EQUIPMENT | | 65,033 | | 65,033 | | |
| 16 | DDG-1000 SUPPORT EQUIPMENT | | 89,700 | | 57,700 | | -32,000 |
| 17 | STRATEGIC PLATFORM SUPPORT EQUIP | | 22,254 | | 22,254 | | |
| 18 | DSSP EQUIPMENT | | 3,629 | | 3,629 | | |
| 19 | CRUISER MODERNIZATION | | 276,446 | | 276,446 | | |
| 20 | LOAC | | 3,709 | | 3,709 | | |
| 21 | UNDERWATER EOD PROGRAMS | | 78,807 | | 78,807 | | |
| 22 | ITEMS LESS THAN \$5 MILLION | | 126,865 | | 126,865 | | |
| 23 | CHEMICAL WARFARE DETECTORS | | 2,966 | | 2,966 | | |

[Dollars in thousands]

| Line | Item | Qty. | 2019 budget estimate | Qty. | Committee recommendation | Change from | |
|------|--|------|----------------------|------|--------------------------|-------------|-----------------|
| | | | | | | Qty. | Budget estimate |
| 24 | SUBMARINE LIFE SUPPORT SYSTEM | | 11,968 | | 6,924 | | -5,044 |
| 25 | REACTOR PLANT EQUIPMENT | | 346,325 | | 346,325 | | |
| 26 | REACTOR POWER UNITS | | 497,063 | | 497,063 | | |
| | REACTOR COMPONENTS | | | | | | |
| | OCEAN ENGINEERING | | | | | | |
| 27 | DIVING AND SALVAGE EQUIPMENT | | 10,706 | | 10,706 | | |
| | SMALL BOATS | | | | | | |
| 28 | STANDARD BOATS | | 49,771 | | 49,771 | | |
| | PRODUCTION FACILITIES EQUIPMENT | | | | | | |
| 29 | OPERATING FORCES IPE | | 225,181 | | 401,181 | | +176,000 |
| | OTHER SHIP SUPPORT | | | | | | |
| 31 | LCS COMMON MISSION MODULES EQUIPMENT | | 46,732 | | 33,237 | | -13,495 |
| 32 | LCS MCM MISSION MODULES | | 124,147 | | 116,381 | | -7,766 |
| 33 | LCS ASW MISSION MODULES | | 57,294 | | | | -57,294 |
| 34 | LCS SUW MISSION MODULES | | 26,006 | | 14,065 | | -11,941 |
| 35 | LCS IN-SERVICE MODERNIZATION | | 70,526 | | 70,526 | | |
| | LOGISTICS SUPPORT | | | | | | |
| 36 | LSD MIDLIFE AND MODERNIZATION | | 4,784 | | 4,784 | | |
| XX | SHIP OVERHAUL, MODERNIZATION AND REPAIR | | | | 610,000 | | +610,000 |
| | SUBTOTAL | | 4,784 | | 614,784 | | +610,000 |
| | TOTAL, SHIPS SUPPORT EQUIPMENT | | 3,180,536 | | 3,823,594 | | +643,058 |
| | COMMUNICATIONS AND ELECTRONICS EQUIPMENT | | | | | | |
| | SHIP SONARS | | | | | | |
| 37 | SPO-9B RADAR | | 20,309 | | 19,179 | | -1,130 |
| 38 | AMWQQ-89 SURF ASW COMBAT SYSTEM | | 115,459 | | 115,459 | | |
| 39 | SSN ACOUSTICS EQUIPMENT | | 318,189 | | 332,189 | | +14,000 |
| 40 | UNDERSEA WARFARE SUPPORT EQUIPMENT | | 10,134 | | 10,134 | | |

| | | | | | | |
|----|---|---------|---------|---------|--|----------|
| 41 | ASW ELECTRONIC EQUIPMENT | 23,815 | 23,815 | 23,815 | | |
| 42 | SUBMARINE ACOUSTIC WARFARE SYSTEM | 11,277 | 2,977 | 2,977 | | -8,300 |
| 43 | SSID | 237,780 | 644,680 | 644,680 | | +406,900 |
| 44 | FIXED SURVEILLANCE SYSTEM | 57,872 | 57,872 | 57,872 | | |
| 45 | SURTASS | | | | | |
| 45 | ELECTRONIC WARFARE EQUIPMENT | | | | | |
| 45 | AN/SLO-32 | 420,344 | 348,266 | 348,266 | | -72,078 |
| 46 | RECONNAISSANCE EQUIPMENT | | | | | |
| 46 | SHIPBOARD IW EXPLOIT | 220,883 | 218,103 | 218,103 | | -2,780 |
| 47 | AUTOMATED IDENTIFICATION SYSTEM [AIS] | 4,028 | 4,028 | 4,028 | | |
| 48 | OTHER SHIP ELECTRONIC EQUIPMENT | | | | | |
| 48 | COOPERATIVE ENGAGEMENT CAPABILITY | 44,173 | 34,821 | 34,821 | | -9,352 |
| 49 | NAVAL TACTICAL COMMAND SUPPORT SYSTEM [NTCSS] | 10,991 | 10,991 | 10,991 | | |
| 50 | ATDLS | 34,526 | 34,526 | 34,526 | | |
| 51 | NAVY COMMAND AND CONTROL SYSTEM [NCCS] | 3,769 | 3,769 | 3,769 | | |
| 52 | MINESWEEPING SYSTEM REPLACEMENT | 35,709 | 33,339 | 33,339 | | -2,370 |
| 53 | SHALLOW WATER MCM | 8,616 | 8,616 | 8,616 | | |
| 54 | NAVSTAR GPS RECEIVERS (SPACE) | 10,703 | 10,703 | 10,703 | | |
| 55 | ARMED FORCES RADIO AND TV | 2,626 | 2,626 | 2,626 | | |
| 56 | STRATEGIC PLATFORM SUPPORT EQUIP | 9,467 | 9,467 | 9,467 | | |
| 57 | AVIATION ELECTRONIC EQUIPMENT | | | | | |
| 57 | ASHORE ATC EQUIPMENT | 70,849 | 70,849 | 70,849 | | |
| 58 | AFLAOT ATC EQUIPMENT | 47,890 | 47,890 | 47,890 | | |
| 59 | ID SYSTEMS | 26,163 | 26,163 | 26,163 | | |
| 60 | JOINT PRECISION APPROACH AND LANDING SYSTEM | 38,094 | 38,094 | 38,094 | | |
| 61 | NAVAL MISSION PLANNING SYSTEMS | 11,966 | 11,966 | 11,966 | | |
| 62 | OTHER SHORE ELECTRONIC EQUIPMENT | | | | | |
| 62 | TACTICAL/MOBILE C4I SYSTEMS | 42,010 | 42,010 | 42,010 | | |
| 63 | DCGS-N | 12,896 | 12,896 | 12,896 | | |
| 64 | CANES | 423,027 | 399,944 | 399,944 | | -23,083 |
| 65 | RADIAC | 8,175 | 8,175 | 8,175 | | |
| 66 | CANES-INTELL | 54,465 | 51,405 | 51,405 | | -3,060 |
| 67 | GPETE | 5,985 | 5,985 | 5,985 | | |
| 68 | MAF | 5,413 | 5,413 | 5,413 | | |
| 69 | INTEG COMBAT SYSTEM TEST FACILITY | 6,251 | 6,251 | 6,251 | | |
| 70 | EMI CONTROL INSTRUMENTATION | 4,183 | 4,183 | 4,183 | | |
| 71 | ITEMS LESS THAN \$5 MILLION | 148,350 | 148,350 | 148,350 | | |

[Dollars in thousands]

| Line | Item | Qty. | 2019 budget estimate | Qty. | Committee recommendation | Change from | |
|------|---|-------|----------------------|-------|--------------------------|-------------|-----------------|
| | | | | | | Qty. | Budget estimate |
| 72 | SHIPBOARD COMMUNICATIONS | ..... | 45,450 | ..... | 45,450 | ..... | ..... |
| 73 | SHIPBOARD TACTICAL COMMUNICATIONS | ..... | 105,087 | ..... | 105,087 | ..... | ..... |
| 74 | SHIP COMMUNICATIONS AUTOMATION | ..... | 41,123 | ..... | 41,123 | ..... | ..... |
| | COMMUNICATIONS ITEMS UNDER \$5M | ..... |  | ..... |  | ..... | ..... |
| | SUBMARINE COMMUNICATIONS | ..... | 30,897 | ..... | 30,897 | ..... | ..... |
| 75 | SUBMARINE BROADCAST SUPPORT | ..... | 78,580 | ..... | 78,580 | ..... | ..... |
| 76 | SUBMARINE COMMUNICATION EQUIPMENT | ..... |  | ..... |  | ..... | ..... |
| | SATELLITE COMMUNICATIONS | ..... | 41,205 | ..... | 41,205 | ..... | ..... |
| 77 | SATELLITE COMMUNICATIONS SYSTEMS | ..... | 113,885 | ..... | 113,885 | ..... | ..... |
| 78 | NAVY MULTIBAND TERMINAL (NMT) | ..... |  | ..... |  | ..... | ..... |
| | SHORE COMMUNICATIONS | ..... | 4,292 | ..... | 4,292 | ..... | ..... |
| 79 | JCS COMMUNICATIONS EQUIPMENT | ..... |  | ..... |  | ..... | ..... |
| | CRYPTOGRAPHIC EQUIPMENT | ..... | 153,526 | ..... | 153,526 | ..... | ..... |
| 80 | INFO SYSTEMS SECURITY PROGRAM (ISSP) | ..... | 951 | ..... | 951 | ..... | ..... |
| 81 | MIO INTEL EXPLOITATION TEAM | ..... |  | ..... |  | ..... | ..... |
| | CRYPTOLOGIC EQUIPMENT | ..... | 14,209 | ..... | 17,009 | ..... | +2,800 |
| 82 | CRYPTOLOGIC COMMUNICATIONS EQUIP | ..... |  | ..... |  | ..... | ..... |
| | OTHER ELECTRONIC SUPPORT | ..... | 40,713 | ..... | 40,713 | ..... | ..... |
| 86 | COAST GUARD EQUIPMENT | ..... |  | ..... |  | ..... | ..... |
| | TOTAL, COMMUNICATIONS AND ELECTRONICS EQUIPMENT | ..... | 3,176,305 | ..... | 3,477,852 | ..... | +301,547 |
| | AVIATION SUPPORT EQUIPMENT | ..... |  | ..... |  | ..... | ..... |
| | SONOBUOYS | ..... | 177,891 | ..... | 216,191 | ..... | +38,300 |
| 88 | SONOBUOYS—ALL TYPES | ..... |  | ..... |  | ..... | ..... |
| | AIRCRAFT SUPPORT EQUIPMENT | ..... | 93,864 | ..... | 93,864 | ..... | ..... |
| 89 | WEAPONS RANGE SUPPORT EQUIPMENT | ..... | 111,724 | ..... | 111,724 | ..... | ..... |
| 90 | AIRCRAFT SUPPORT EQUIPMENT | ..... | 11,054 | ..... | 11,054 | ..... | ..... |
| 91 | ADVANCED ARRESTING GEAR (AAG) | ..... | 21,072 | ..... | 21,072 | ..... | ..... |
| 92 | METEOROLOGICAL EQUIPMENT | ..... | 656 | ..... | 656 | ..... | ..... |
| 93 | OTHER PHOTOGRAPHIC EQUIPMENT (DCRS/DPL) | ..... |  | ..... |  | ..... | ..... |

| | | | | | | | | | |
|-----|---|-----------|-----------|-----------|-----------|-------|-------|-------|----------|
| 94 | AIRBORNE MINE COUNTERMEASURES | 11,299 | 11,299 | 11,299 | 11,299 | ..... | ..... | ..... | ..... |
| 95 | LAMPS EQUIPMENT | 594 | 594 | 594 | 594 | ..... | ..... | ..... | ..... |
| 96 | AVIATION SUPPORT EQUIPMENT | 39,374 | 39,374 | 37,026 | 37,026 | ..... | ..... | ..... | -2,348 |
| 97 | UMCS-UNMAN CARRIER AVIATION (UCA) MISSION CONTROL | 35,405 | 35,405 | 28,179 | 28,179 | ..... | ..... | ..... | -7,226 |
| | TOTAL, AVIATION SUPPORT EQUIPMENT | 502,933 | 502,933 | 531,659 | 531,659 | ..... | ..... | ..... | + 28,726 |
| | ORDNANCE SUPPORT EQUIPMENT | | | | | | | | |
| | SHIP GUN SYSTEM EQUIPMENT | | | | | | | | |
| 98 | SHIP GUN SYSTEMS EQUIPMENT | 5,337 | 5,337 | 5,337 | 5,337 | ..... | ..... | ..... | ..... |
| | SHIP MISSILE SYSTEMS EQUIPMENT | | | | | | | | |
| 99 | SHIP MISSILE SUPPORT EQUIPMENT | 213,090 | 213,090 | 202,071 | 202,071 | ..... | ..... | ..... | - 11,019 |
| 100 | TOMAHAWK SUPPORT EQUIPMENT | 92,890 | 92,890 | 92,890 | 92,890 | ..... | ..... | ..... | ..... |
| | FBM SUPPORT EQUIPMENT | | | | | | | | |
| 101 | STRATEGIC MISSILE SYSTEMS EQUIP | 271,817 | 271,817 | 271,817 | 271,817 | ..... | ..... | ..... | ..... |
| | ASW SUPPORT EQUIPMENT | | | | | | | | |
| 102 | SSN COMBAT CONTROL SYSTEMS | 129,501 | 129,501 | 129,501 | 129,501 | ..... | ..... | ..... | ..... |
| 103 | ASW SUPPORT EQUIPMENT | 19,436 | 19,436 | 19,436 | 19,436 | ..... | ..... | ..... | ..... |
| | OTHER ORDNANCE SUPPORT EQUIPMENT | | | | | | | | |
| 104 | EXPLOSIVE ORDNANCE DISPOSAL EQUIP | 14,258 | 14,258 | 14,258 | 14,258 | ..... | ..... | ..... | ..... |
| 105 | ITEMS LESS THAN \$5 MILLION | 5,378 | 5,378 | 5,378 | 5,378 | ..... | ..... | ..... | ..... |
| | OTHER EXPENDABLE ORDNANCE | | | | | | | | |
| 106 | SUBMARINE TRAINING DEVICE MODS | 65,543 | 65,543 | 65,543 | 65,543 | ..... | ..... | ..... | ..... |
| 107 | SURFACE TRAINING EQUIPMENT | 230,425 | 230,425 | 227,791 | 227,791 | ..... | ..... | ..... | -2,634 |
| | TOTAL, ORDNANCE SUPPORT EQUIPMENT | 1,047,675 | 1,047,675 | 1,034,022 | 1,034,022 | ..... | ..... | ..... | -13,653 |
| | CIVIL ENGINEERING SUPPORT EQUIPMENT | | | | | | | | |
| 108 | PASSENGER CARRYING VEHICLES | 4,867 | 4,867 | 4,867 | 4,867 | ..... | ..... | ..... | ..... |
| 109 | GENERAL PURPOSE TRUCKS | 2,674 | 2,674 | 2,674 | 2,674 | ..... | ..... | ..... | ..... |
| 110 | CONSTRUCTION & MAINTENANCE EQUIP | 20,994 | 20,994 | 20,994 | 20,994 | ..... | ..... | ..... | ..... |
| 111 | FIRE FIGHTING EQUIPMENT | 17,189 | 17,189 | 17,189 | 17,189 | ..... | ..... | ..... | ..... |
| 112 | TACTICAL VEHICLES | 19,916 | 19,916 | 19,916 | 19,916 | ..... | ..... | ..... | ..... |
| 113 | AMPHIBIOUS EQUIPMENT | 7,400 | 7,400 | 7,400 | 7,400 | ..... | ..... | ..... | ..... |
| 114 | POLLUTION CONTROL EQUIPMENT | 2,713 | 2,713 | 2,713 | 2,713 | ..... | ..... | ..... | ..... |
| 115 | ITEMS UNDER \$5 MILLION | 35,540 | 35,540 | 35,540 | 35,540 | ..... | ..... | ..... | ..... |
| 116 | PHYSICAL SECURITY VEHICLES | 1,155 | 1,155 | 1,155 | 1,155 | ..... | ..... | ..... | ..... |

[Dollars in thousands]

| Line | Item | Qty. | 2019 budget estimate | Qty. | Committee recommendation | Change from | |
|------|--|------|----------------------|------|--------------------------|-------------|-----------------|
| | | | | | | Qty. | Budget estimate |
| | TOTAL, CIVIL ENGINEERING SUPPORT EQUIPMENT | | 112,448 | | 112,448 | | |
| 117 | SUPPLY SUPPORT EQUIPMENT | | | | | | |
| | SUPPLY EQUIPMENT | | 18,786 | | 18,786 | | |
| 118 | FIRST DESTINATION TRANSPORTATION | | 5,375 | | 5,375 | | |
| 119 | SPECIAL PURPOSE SUPPLY SYSTEMS | | 580,371 | | 580,371 | | |
| | TOTAL, SUPPLY SUPPORT EQUIPMENT | | 604,532 | | 604,532 | | |
| | PERSONNEL AND COMMAND SUPPORT EQUIPMENT | | | | | | |
| | TRAINING DEVICES | | | | | | |
| 120 | TRAINING SUPPORT EQUIPMENT | | 3,400 | | 3,400 | | |
| 121 | TRAINING AND EDUCATION EQUIPMENT | | 24,283 | | 24,283 | | |
| | COMMAND SUPPORT EQUIPMENT | | | | | | |
| 122 | COMMAND SUPPORT EQUIPMENT | | 66,681 | | 66,681 | | |
| 123 | MEDICAL SUPPORT EQUIPMENT | | 3,352 | | 3,352 | | |
| 125 | NAVAL MIP SUPPORT EQUIPMENT | | 1,984 | | 1,984 | | |
| 126 | OPERATING FORCES SUPPORT EQUIPMENT | | 15,131 | | 15,131 | | |
| 127 | CAISR EQUIPMENT | | 3,576 | | 3,576 | | |
| 128 | ENVIRONMENTAL SUPPORT EQUIPMENT | | 31,902 | | 31,902 | | |
| 129 | PHYSICAL SECURITY EQUIPMENT | | 175,436 | | 195,436 | | + 20,000 |
| 130 | ENTERPRISE INFORMATION TECHNOLOGY | | 25,393 | | 25,393 | | |
| 133 | NEXT GENERATION ENTERPRISE SERVICE | | 96,269 | | 96,269 | | |
| | TOTAL, PERSONNEL AND COMMAND SUPPORT EQUIPMENT | | 447,407 | | 467,407 | | + 20,000 |
| 134 | SPARES AND REPAIR PARTS | | 326,838 | | 326,367 | | -471 |
| | CLASSIFIED PROGRAMS | | 15,681 | | 15,681 | | |
| | TOTAL, OTHER PROCUREMENT, NAVY | | 9,414,355 | | 10,393,562 | | + 979,207 |

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|---|----------------------|--------------------------|-----------------------------|
| 4 | Other Navigation Equipment | 63,330 | 69,330 | + 6,000 |
| | Restoring acquisition accountability: Production engineering excess growth | | | - 4,000 |
| | Program increase: Accelerate ECDIS-N 9.4, 9.4, 9.5 implementation | | | + 10,000 |
| 6 | DDG Mod | 487,999 | 469,499 | - 18,500 |
| | Insufficient budget justification: Aegis modernization testing | | | - 9,500 |
| | Insufficient budget justification: Combat system ship qualification trials | | | - 9,000 |
| 14 | Submarine Batteries | 27,987 | 25,085 | - 2,902 |
| | Restoring acquisition accountability: Unit cost growth | | | - 2,902 |
| 16 | DDG 1000 Class Support Equipment | 89,700 | 57,700 | - 32,000 |
| | Restoring acquisition accountability: DDG 1002 data center ahead of need | | | - 32,000 |
| 24 | Submarine Life Support System | 11,968 | 6,924 | - 5,044 |
| | Restoring acquisition accountability: Low pressure electrolyzer early to need | | | - 5,044 |
| 29 | Operating Forces Ipe | 225,181 | 401,181 | + 176,000 |
| | Program increase: Shipyard investment acceleration | | | + 176,000 |
| 31 | LCS Common Mission Modules Equipment | 46,732 | 33,237 | - 13,495 |
| | Restoring acquisition accountability: EMM mission package computing environment ahead of need | | | - 8,986 |
| | Restoring acquisition accountability: EMM training equipment ahead of need | | | - 4,509 |
| 32 | LCS MCM Mission Modules | 124,147 | 116,381 | - 7,766 |
| | Restoring acquisition accountability: AMNS unit cost growth | | | - 3,026 |
| | Restoring acquisition accountability: Knifefish unit cost growth | | | - 4,740 |
| 33 | LCS ASW Mission Modules | 57,294 | | - 57,294 |
| | Restoring acquisition accountability: ASW mission modules ahead of need | | | - 57,294 |
| 34 | LCS SUW Mission Modules | 26,006 | 14,065 | - 11,941 |
| | Restoring acquisition accountability: Excess surface-to surface mission module ahead of test | | | - 11,941 |
| xx | Ship Overhaul, Modernization and Repair | | 610,000 | + 610,000 |
| | Transfer: From Operation and Maintenance, Navy line 1B4B Ship Depot Maintenance for the USS BOISE, USS NEW YORK and USS GUNSTON HALL availabilities | | | + 610,000 |
| 37 | SPQ-9B Radar | 20,309 | 19,179 | - 1,130 |
| | Restoring acquisition accountability: Installation funding early to need | | | - 1,130 |
| 39 | SSN Acoustic Equipment | 318,189 | 332,189 | + 14,000 |
| | Program increase | | | + 14,000 |
| 42 | SSTD | 11,277 | 2,977 | - 8,300 |
| | Restoring acquisition accountability: AN/SLQ-25E delay | | | - 8,300 |
| 43 | Fixed Surveillance System | 237,780 | 644,680 | + 406,900 |
| | Program acceleration | | | + 406,900 |
| 45 | AN/SLQ-32 | 420,344 | 348,266 | - 72,078 |
| | Restoring acquisition accountability: Excess Block 3 systems | | | - 60,376 |
| | Restoring acquisition accountability: Excess Block 3 installation funding | | | - 11,702 |
| 46 | Shipboard IW Exploit | 220,883 | 218,103 | - 2,780 |

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|--|----------------------|--------------------------|-----------------------------|
| | Restoring acquisition accountability: Increment F kit cost growth | | | -2,780 |
| 48 | Cooperative Engagement Capability | 44,173 | 34,821 | -9,352 |
| | Restoring acquisition accountability: Common array block antenna | | | -9,352 |
| 52 | Minesweeping System Replacement | 35,709 | 33,339 | -2,370 |
| | Restoring acquisition accountability: Knifefish unit cost growth | | | -2,370 |
| 64 | CANES | 423,027 | 399,944 | -23,083 |
| | Restoring acquisition accountability: Installations previously funded | | | -23,083 |
| 66 | CANES-Intell | 54,465 | 51,405 | -3,060 |
| | Restoring acquisition accountability: Installations previously funded | | | -3,060 |
| 82 | Cryptologic Communications Equip | 14,209 | 17,009 | +2,800 |
| | Program increase: SOUTHCOM ISR requirements | | | +2,800 |
| 88 | Sonobuoys—All Types | 177,891 | 216,191 | +38,300 |
| | Program increase | | | +38,300 |
| 96 | Aviation Support Equipment | 39,374 | 37,026 | -2,348 |
| | Improving funds management: JHMCS night vision unit cost growth | | | -2,348 |
| 97 | UMCS—Unman Carrier Aviation (UCA) Mission Cntrl | 35,405 | 28,179 | -7,226 |
| | Restoring acquisition accountability: MD-5A procurement ahead of need | | | -3,742 |
| | Restoring acquisition accountability: Ship change document ahead of need | | | -3,484 |
| 99 | Ship Missile Support Equipment | 213,090 | 202,071 | -11,019 |
| | Restoring acquisition accountability: ESSM missile launcher upgrade funding unjustified | | | -4,619 |
| | Restoring acquisition accountability: RAM ORDALTs for block 2B ahead of need | | | -6,400 |
| 107 | Surface Training Equipment | 230,425 | 227,791 | -2,634 |
| | Restoring acquisition accountability: BFTT upgrade kits installation funding ahead of need | | | -2,634 |
| 129 | Physical Security Equipment | 175,436 | 195,436 | +20,000 |
| | Program increase: New Navy port waterborne security barriers | | | +20,000 |
| 134 | Spares and Repair Parts | 326,838 | 326,367 | -471 |
| | Program termination: Hybrid electric drive spares | | | -471 |

PROCUREMENT, MARINE CORPS

| | |
|--------------------------------|-----------------|
| Appropriations, 2018 | \$1,942,737,000 |
| Budget estimate, 2019 | 2,860,410,000 |
| Committee recommendation | 2,800,997,000 |

The Committee recommends an appropriation of \$2,800,997,000. This is \$59,413,000 below the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table summarizes the budget estimate for this appropriation, the Committee recommendation, and the Committee recommended adjustments to the budget estimate:

[Dollars in thousands]

| Line | Item | Qty. | 2019 budget estimate | Qty. | Committee recommendation | Change from | |
|--|---|------|----------------------|------|--------------------------|-------------|-----------------|
| | | | | | | Qty. | Budget estimate |
| PROCUREMENT, MARINE CORPS | | | | | | | |
| WEAPONS AND COMBAT VEHICLES | | | | | | | |
| TRACKED COMBAT VEHICLES | | | | | | | |
| 1 | AAV7A1 PIP | 30 | 156,249 | | 96,836 | | -59,413 |
| 2 | AMPHIBIOUS COMBAT VEHICLE I.1 | | 167,478 | 30 | 167,478 | | |
| 3 | LAV PIP | | 43,701 | | 43,701 | | |
| ARTILLERY AND OTHER WEAPONS | | | | | | | |
| 5 | 155MM LIGHTWEIGHT TOWED HOWITZER | | 47,158 | | 47,158 | | |
| 6 | ARTILLERY WEAPONS SYSTEM | | 134,246 | | 134,246 | | |
| 7 | WEAPONS AND COMBAT VEHICLES UNDER \$5 MILLION | | 40,687 | | 40,687 | | |
| 8 | OTHER SUPPORT | | 22,904 | | 22,904 | | |
| | MODIFICATION KITS | | | | | | |
| | TOTAL, WEAPONS AND COMBAT VEHICLES | | 612,423 | | 553,010 | | -59,413 |
| GUIDED MISSILES AND EQUIPMENT | | | | | | | |
| GUIDED MISSILES | | | | | | | |
| 9 | GROUND BASED AIR DEFENSE | | 18,334 | | 18,334 | | |
| 10 | JAVELIN | 5 | 3,020 | 5 | 3,020 | | |
| 11 | FOLLOW ON TO SIMAW/FOAWIS | | 13,760 | | 13,760 | | |
| 12 | ANTI-ARMOR WEAPONS SYSTEM-HEAVY (AAWS-H)/TOW | | 59,702 | | 59,702 | | |
| | TOTAL, GUIDED MISSILES AND EQUIPMENT | | 94,816 | | 94,816 | | |
| COMMUNICATIONS AND ELECTRONICS EQUIPMENT | | | | | | | |
| COMMAND AND CONTROL SYSTEMS | | | | | | | |
| 13 | COMMON AVIATION COMMAND AND CONTROL SYS | | 35,467 | | 35,467 | | |
| REPAIR AND TEST EQUIPMENT | | | | | | | |
| 14 | REPAIR AND TEST EQUIPMENT | | 46,081 | | 46,081 | | |
| 15 | MODIFICATION KITS | | 971 | | 971 | | |

[Dollars in thousands]

| Line | Item | Qty. | 2019 budget estimate | Qty. | Committee recommendation | Change from | |
|------|---|------|----------------------|------|--------------------------|-------------|-----------------|
| | | | | | | Qty. | Budget estimate |
| | OTHER SUPPORT (TEL) | | | | | | |
| 16 | COMMAND AND CONTROL | | 69,203 | | 69,203 | | |
| 17 | ITEMS UNDER \$5 MILLION (COMM & ELEC) | | 14,269 | | 14,269 | | |
| | AIR OPERATIONS C2 SYSTEMS | | | | | | |
| 18 | RADAR + EQUIPMENT (NON-TEL) | | 6,694 | | 6,694 | | |
| 19 | RADAR SYSTEMS | | 224,969 | 3 | 224,969 | | |
| | GROUND/AIR TASK ORIENTED RADAR | | | | | | |
| 21 | INTELL/COMM EQUIPMENT (NON-TEL) | | 1,187 | | 1,187 | | |
| 22 | GCSS-MC | | 60,189 | | 60,189 | | |
| 23 | FIRE SUPPORT SYSTEM | | 73,848 | | 73,848 | | |
| 25 | INTELLIGENCE SUPPORT EQUIPMENT | | 3,848 | | 3,848 | | |
| 26 | UNMANNED AIR SYSTEMS (INTEL) | | 16,081 | | 16,081 | | |
| | DGCS-MC | | | | | | |
| | OTHER SUPPORT (NON-TEL) | | | | | | |
| 30 | NEXT GENERATION ENTERPRISE NETWORK (NGEN) | | 87,120 | | 87,120 | | |
| 31 | COMMON COMPUTER RESOURCES | | 68,914 | | 68,914 | | |
| 32 | COMMAND POST SYSTEMS | | 124,838 | | 124,838 | | |
| 33 | RADIO SYSTEMS | | 279,680 | | 279,680 | | |
| 34 | COMM SWITCHING & CONTROL SYSTEMS | | 36,649 | | 36,649 | | |
| 35 | COMM & ELEC INFRASTRUCTURE SUPPORT | | 83,971 | | 83,971 | | |
| | TOTAL, COMMUNICATIONS AND ELECTRONICS EQUIPMENT | | 1,233,979 | | 1,233,979 | | |
| | SUPPORT VEHICLES | | | | | | |
| 36 | ADMINISTRATIVE VEHICLES | | 25,441 | | 25,441 | | |
| | COMMERCIAL CARGO VEHICLES | | | | | | |
| | TACTICAL VEHICLES | | | | | | |
| 37 | MOTOR TRANSPORT MODIFICATIONS | | 11,392 | | 11,392 | | |
| 38 | JOINT LIGHT TACTICAL VEHICLE | | 607,011 | | 607,011 | | |
| 39 | FAMILY OF TACTICAL TRAILERS | | 2,393 | | 2,393 | | |
| 40 | TRAILERS | | 6,540 | | 6,540 | | |

| | | | | | |
|----|--|-----------|-----------|--|--------|
| | TOTAL, SUPPORT VEHICLES | 652,777 | 652,777 | | |
| | ENGINEER AND OTHER EQUIPMENT | | | | |
| | ENGINEER AND OTHER EQUIPMENT | | | | |
| 41 | ENVIRONMENTAL CONTROL EQUIP ASSORT | 496 | 496 | | |
| 42 | TACTICAL FUEL SYSTEMS | 54 | 54 | | |
| 43 | POWER EQUIPMENT ASSORTED | 21,062 | 21,062 | | |
| 44 | AMPHIBIOUS SUPPORT EQUIPMENT | 5,290 | 5,290 | | |
| 45 | EOD SYSTEMS | 47,854 | 47,854 | | |
| | MATERIALS HANDLING EQUIPMENT | | | | |
| 46 | PHYSICAL SECURITY EQUIPMENT | 28,306 | 28,306 | | |
| | GENERAL PROPERTY | | | | |
| 47 | FIELD MEDICAL EQUIPMENT | 33,513 | 33,513 | | |
| 48 | TRAINING DEVICES | 52,040 | 52,040 | | |
| 49 | FAMILY OF CONSTRUCTION EQUIPMENT | 36,156 | 36,156 | | |
| 50 | FAMILY OF INTERNALLY TRANSPORTABLE VEHICLE (ITV) | 606 | 606 | | |
| | OTHER SUPPORT | | | | |
| 51 | ITEMS LESS THAN \$5 MILLION | 11,608 | 11,608 | | |
| | TOTAL, ENGINEER AND OTHER EQUIPMENT | 236,985 | 236,985 | | |
| 53 | SPARES AND REPAIR PARTS | 25,804 | 25,804 | | |
| | CLASSIFIED PROGRAMS | 3,626 | 3,626 | | |
| | TOTAL, PROCUREMENT, MARINE CORPS | 2,860,410 | 2,800,997 | | 59,413 |

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|--|----------------------|--------------------------|-----------------------------|
| 1 | AAV7A1 PIP | 156,249 | 96,836 | - 59,413 |
| | Restoring acquisition accountability: Program delays– survivability upgrade | | | - 59,413 |

Assault Amphibious Vehicle—Survivability Upgrade [AAV–SU].— The Committee notes efforts by the Marine Corps to enhance the maneuverability, survivability and combat effectiveness of the legacy AAV vehicle fleet and its Assault Amphibian Battalions while maintaining critical amphibious lift and armored personnel carrier capabilities. The Committee remains concerned with the current production schedule and unit cost estimates due to recent further delays in the delivery of required test assets and changes in the vehicle design. Therefore, the Committee provides adequate funding to maintain progress towards award of a full rate production contract, and encourages the Commandant of the Marine Corps to provide an updated program schedule and production plan to the congressional defense committees that reflects a more accurate cost assessment and an achievable production schedule.

AIRCRAFT PROCUREMENT, AIR FORCE

| | |
|--------------------------------|------------------|
| Appropriations, 2018 | \$18,504,556,000 |
| Budget estimate, 2019 | 16,206,937,000 |
| Committee recommendation | 15,772,473,000 |

The Committee recommends an appropriation of \$15,772,473,000. This is \$434,464,000 below the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table summarizes the budget estimate for this appropriation, the Committee recommendation, and the Committee recommended adjustments to the budget estimate:

[Dollars in thousands]

| Line | Item | Qty. | 2019 budget estimate | Qty. | Committee recommendation | Change from | |
|-----------------------------------|-----------------------------------|-------|----------------------|-------|--------------------------|-------------|-----------------|
| | | | | | | Qty. | Budget estimate |
| AIRCRAFT PROCUREMENT, AIR FORCE | | | | | | | |
| COMBAT AIRCRAFT | | | | | | | |
| TACTICAL FORCES | | | | | | | |
| 1 | F-35 | 48 | 4,261,021 | 48 | 4,021,021 | ..... | -240,000 |
| 2 | F-35 [AP-CY] ..... | ..... | 406,000 | ..... | 526,000 | ..... | +120,000 |
| 3 | C-135B | 2 | 222,176 | 2 | 222,176 | ..... | ..... |
| | TOTAL, COMBAT AIRCRAFT ..... | ..... | 4,889,197 | ..... | 4,769,197 | ..... | -120,000 |
| AIRLIFT AIRCRAFT/TACTICAL AIRLIFT | | | | | | | |
| 4 | KC-46A TANKER | 15 | 2,559,911 | 15 | 2,415,491 | ..... | -144,420 |
| OTHER AIRLIFT | | | | | | | |
| 5 | C-130J ..... | ..... | 35,858 | ..... | 35,858 | ..... | ..... |
| 6 | HC-130J | 1 | 129,437 | 1 | 86,981 | ..... | -42,456 |
| 8 | MC-130J | 6 | 770,201 | 6 | 727,879 | ..... | -42,322 |
| 9 | MC-130J (AP) ..... | ..... | 218,000 | ..... | 218,000 | ..... | ..... |
| | TOTAL, AIRLIFT AIRCRAFT ..... | ..... | 3,713,407 | ..... | 3,484,209 | ..... | -229,198 |
| OTHER AIRCRAFT | | | | | | | |
| HELICOPTERS | | | | | | | |
| 11 | COMBAT RESCUE HELICOPTER | 10 | 680,201 | 10 | 630,201 | ..... | -50,000 |
| MISSION SUPPORT AIRCRAFT | | | | | | | |
| 13 | CIVIL AIR PATROL A/C | 4 | 2,719 | 4 | 10,800 | ..... | +8,081 |
| OTHER AIRCRAFT | | | | | | | |
| 14 | TARGET DRONES | 48 | 139,053 | 48 | 139,053 | ..... | ..... |
| 15 | COMPASS CALL MODS | 1 | 108,113 | 1 | 108,113 | ..... | ..... |
| 17 | MQ-9 | 8 | 221,707 | 14 | 255,903 | ..... | +34,196 |
| 18 | O/A-X LIGHT ATTACK AIRCRAFT ..... | ..... | ..... | ..... | 300,000 | ..... | +300,000 |
| | TOTAL, OTHER AIRCRAFT ..... | ..... | 1,151,793 | ..... | 1,444,070 | ..... | +292,277 |

[Dollars in thousands]

| Line | Item | Qty. | 2019 budget estimate | Qty. | Committee recommendation | Change from | |
|---|--------------------------|------|----------------------|------|--------------------------|-------------|-----------------|
| | | | | | | Qty. | Budget estimate |
| MODIFICATION OF INSERVICE AIRCRAFT | | | | | | | |
| STRATEGIC AIRCRAFT | | | | | | | |
| 19 | B-2A | | 60,301 | | 57,200 | | -3,101 |
| 20 | B-1B | | 51,290 | | 35,690 | | -15,600 |
| 21 | B-52 | | 105,519 | | 117,230 | | +11,711 |
| TACTICAL AIRCRAFT | | | | | | | |
| 23 | A-10 | | 98,720 | | 92,710 | | -6,010 |
| 24 | C-130J | | 10,831 | | | | -10,831 |
| 25 | F-15 | | 548,109 | | 456,647 | | -91,462 |
| 26 | F-16 | | 324,323 | | 304,323 | | -20,000 |
| 27 | F-22A | | 250,710 | | 250,710 | | |
| 29 | F-35 MODIFICATIONS | | 247,271 | | 156,971 | | -90,300 |
| 30 | F-15 EPAW | | 147,685 | | 197,685 | | +50,000 |
| 31 | INCREMENT 3.2B | | 9,007 | | 9,007 | | |
| 33 | KC-46A TANKER | | 8,547 | | 8,547 | | |
| AIRLIFT AIRCRAFT | | | | | | | |
| 34 | C-5 | | 77,845 | | 71,835 | | -6,010 |
| 36 | C-17A | | 102,121 | | 102,121 | | |
| 37 | C-21 | | 17,516 | | 17,516 | | |
| 38 | C-32A | | 4,537 | | 4,537 | | |
| 39 | C-37A | | 419 | | 419 | | |
| TRAINER AIRCRAFT | | | | | | | |
| 41 | GLIDER MODS | | 137 | | 137 | | |
| 42 | T6 | | 22,550 | | 22,550 | | |
| 43 | T-1 | | 21,952 | | 21,952 | | |
| 44 | T-38 | | 70,623 | | 70,623 | | |
| OTHER AIRCRAFT | | | | | | | |
| 45 | U-2 MODS | | 48,774 | | 48,774 | | |
| 46 | KC-10A (ATCA) | | 11,104 | | 11,104 | | |
| 47 | C-12 | | 4,900 | | 4,900 | | |
| 48 | VC-25A MOD | | 36,938 | | 27,238 | | -9,700 |
| 49 | C-40 | | 251 | | 251 | | |

| | | | | | | | | | |
|----|--|---|--|--|-----------|--|--|--|----------|
| 50 | C-130 | | | | 147,094 | | | | |
| 51 | C130J MODS | | | | 127,434 | | | | +125,000 |
| 52 | C-135 | | | | 91,410 | | | | -4,611 |
| 53 | OC-135B | | | | 5,913 | | | | -21,666 |
| 54 | COMPASS CALL MODS | | | | 49,885 | | | | |
| 55 | COMBAT FLIGHT INSPECTION (CFIN) | | | | 499 | | | | |
| 56 | RC-135 | | | | 394,532 | | | | -3,000 |
| 57 | E-3 | | | | 133,906 | | | | -17,041 |
| 58 | E-4 | | | | 67,858 | | | | |
| 59 | E-8 | | | | 24,807 | | | | +14,888 |
| 60 | AIRBORNE WARNING AND CONTROL SYSTEM | | | | 57,780 | | | | |
| 61 | FAMILY OF BEYOND LINE-OF-SIGHT TERMINALS | 3 | | | 11,283 | | | | -3,010 |
| 62 | H-1 | | | | 2,940 | | | | |
| 63 | H-60 | | | | 55,466 | | | | |
| 64 | RC-4 UAV MODS | | | | 123,715 | | | | +100,000 |
| 65 | HC/MC-130 MODIFICATIONS | | | | 37,754 | | | | |
| 66 | OTHER AIRCRAFT | | | | 62,010 | | | | |
| 67 | MQ-9 MODS | | | | 146,648 | | | | -24,900 |
| 69 | CV-22 MODS | | | | 60,416 | | | | |
| | TOTAL, MODIFICATION OF IN-SERVICE AIRCRAFT | | | | 3,671,986 | | | | -25,643 |
| 70 | AIRCRAFT SPARES AND REPAIR PARTS | | | | 778,508 | | | | -177,900 |
| | INITIAL SPARES/REPAIR PARTS | | | | 778,508 | | | | -177,900 |
| | TOTAL, AIRCRAFT SPARES AND REPAIR PARTS | | | | 778,508 | | | | -177,900 |
| | AIRCRAFT SUPPORT EQUIPMENT AND FACILITIES | | | | | | | | |
| | COMMON SUPPORT EQUIPMENT | | | | | | | | |
| 71 | AIRCRAFT REPLACEMENT SUPPORT EQUIP | | | | 81,241 | | | | |
| | POST PRODUCTION SUPPORT | | | | | | | | |
| 74 | B-2A | | | | 1,763 | | | | |
| 75 | B-2B | | | | 35,861 | | | | |
| 76 | B-52 | | | | 12,819 | | | | |
| 77 | C-17A | | | | 10,114 | | | | |
| 79 | F-15 | | | | 2,545 | | | | |
| 81 | F-16 POST PRODUCTION SUPPORT | | | | 4,518 | | | | -7,200 |
| 82 | F-22A | | | | 14,489 | | | | |
| 83 | OTHER AIRCRAFT | | | | 9,928 | | | | |
| 84 | RQ-4 POST PRODUCTION CHARGES | | | | 40,641 | | | | |

[Dollars in thousands]

| Line | Item | Qty. | 2019 budget estimate | Qty. | Committee recommendation | Change from | |
|------|--|------|----------------------|------|--------------------------|-------------|-----------------|
| | | | | | | Qty. | Budget estimate |
| 86 | INDUSTRIAL PREPAREDNESS | | 17,378 | | 17,378 | | |
| | INDUSTRIAL PREPAREDNESS | | | | | | |
| | WAR CONSUMIBLES | | | | | | |
| 88 | WAR CONSUMIBLES | | 29,342 | | 29,342 | | |
| | OTHER PRODUCTION CHARGES | | | | | | |
| | OTHER PRODUCTION CHARGES | | 1,502,386 | | 1,335,586 | | -166,800 |
| | TOTAL, AIRCRAFT SUPPORT EQUIPMENT AND FACILITIES | | 1,770,225 | | 1,596,225 | | -174,000 |
| | CLASSIFIED PROGRAMS | | 28,278 | | 28,278 | | |
| | TOTAL, AIRCRAFT PROCUREMENT, AIR FORCE | | 16,206,937 | | 15,772,473 | | -434,464 |

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|---|----------------------|--------------------------|-----------------------------|
| 1 | F-35 | 4,261,021 | 4,021,021 | - 240,000 |
| | Restoring acquisition accountability: Unit cost savings .. | | | - 240,000 |
| 2 | F-35 [AP-CY] | 406,000 | 526,000 | + 120,000 |
| | Program increase: Advance procurement for additional FY 2020 aircraft | | | + 120,000 |
| 4 | KC-46A Tanker | 2,559,911 | 2,415,491 | - 144,420 |
| | Restoring acquisition accountability: Unit cost savings .. | | | - 41,700 |
| | Improving funds management: Interim contractor support excess to need | | | - 102,720 |
| 6 | HC-130J | 129,437 | 86,981 | - 42,456 |
| | Restoring acquisition accountability: Unit cost growth | | | - 11,000 |
| | Restoring acquisition accountability: Spares funding ahead of need | | | - 31,456 |
| 8 | MC-130J | 770,201 | 727,879 | - 42,322 |
| | Restoring acquisition accountability: Unit cost growth | | | - 42,322 |
| 11 | Combat Rescue Helicopter | 680,201 | 630,201 | - 50,000 |
| | Restoring acquisition accountability: Excess unit cost | | | - 50,000 |
| 13 | Civil Air Patrol A/C | 2,719 | 10,800 | + 8,081 |
| | Program increase | | | + 8,081 |
| 17 | MQ-9 | 221,707 | 255,903 | + 34,196 |
| | Program increase: Accelerate advanced battle management system | | | + 120,000 |
| | Restoring acquisition accountability: Prior year unit cost savings | | | - 5,664 |
| | Restoring acquisition accountability: Dual ground control station funding excess to need | | | - 80,140 |
| 18 | O/A-X Light Attack Aircraft | | 300,000 | + 300,000 |
| | Program increase: Procurement of aircraft and long lead materials | | | + 300,000 |
| 19 | B-2A | 60,301 | 57,200 | - 3,101 |
| | Restoring acquisition accountability: Common very low frequency terminal installations previously funded | | | - 3,101 |
| 20 | B-1B | 51,290 | 35,690 | - 15,600 |
| | Restoring acquisition accountability: Integrated battle station excess to need | | | - 9,400 |
| | Restoring acquisition accountability: MIDS-JTRS ahead of need | | | - 3,719 |
| | Restoring acquisition accountability: Radio crypto ahead of need | | | - 1,181 |
| | Restoring acquisition accountability: ADS-B out ahead of need | | | - 1,300 |
| 21 | B-52 | 105,519 | 117,230 | + 11,711 |
| | Program increase: LRASM certification | | | + 10,000 |
| | Program increase: B-52 infrared threat defense UON | | | + 16,400 |
| | Program increase: B-52 mission data recorder | | | + 5,000 |
| | Transfer crypto modernization: Air Force-requested to RDAF line 173 | | | - 14,759 |
| | Restoring acquisition accountability: Bomber tactical data link ahead of need | | | - 2,976 |
| | Restoring acquisition accountability: Airspace compliance ahead of need | | | - 1,954 |
| 23 | A-10 | 98,720 | 92,710 | - 6,010 |
| | Improving funds management: ADS-B out delay | | | - 6,010 |
| 24 | C-130J | 10,831 | | - 10,831 |
| | Insufficient budget justification: Unjustified request | | | - 10,831 |
| 25 | F-15 | 548,109 | 456,647 | - 91,462 |
| | Program increase: ALQ-128 | | | + 10,000 |
| | Restoring acquisition accountability: APG-82 unit cost growth | | | - 6,311 |

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|--|----------------------|--------------------------|-----------------------------|
| | Restoring acquisition accountability: APG-82 ICS excess growth | | | -10,000 |
| | Restoring acquisition accountability: APG-82 installation cost growth | | | -6,535 |
| | Restoring acquisition accountability: APG-63 ahead of need | | | -69,130 |
| | Restoring acquisition accountability: APG-63 installation cost growth | | | -9,486 |
| 26 | F-16 | 324,323 | 304,323 | -20,000 |
| | Restoring acquisition accountability: MIDS-JITRS excess growth | | | -20,000 |
| 29 | F-35 Modifications | 247,271 | 156,971 | -90,300 |
| | Maintain program affordability: Concurrency growth | | | -90,300 |
| 30 | F-15 EPAW | 147,685 | 197,685 | +50,000 |
| | Program increase: Eagle passive active warning survivability systems for F-15Cs | | | +50,000 |
| 34 | C-5 | 77,845 | 71,835 | -6,010 |
| | Restoring acquisition accountability: CMC and weather radar contract delay | | | -6,010 |
| 48 | VC-25A Mod | 36,938 | 27,238 | -9,700 |
| | Restoring acquisition accountability: Chiller replacement terminated | | | -9,700 |
| 50 | C-130 | 22,094 | 147,094 | +125,000 |
| | Program increase: C-130H modernization | | | +125,000 |
| 51 | C-130J Mods | 132,045 | 127,434 | -4,611 |
| | Restoring acquisition accountability: Block 8.1 b kit unit cost growth | | | -4,611 |
| 52 | C-135 | 113,076 | 91,410 | -21,666 |
| | Restoring acquisition accountability: AERO-I satcom replacement ahead of need | | | -21,666 |
| 56 | RC-135 | 394,532 | 391,532 | -3,000 |
| | Restoring acquisition accountability: Combat sent install funding excess to need | | | -3,000 |
| 57 | E-3 | 133,906 | 116,865 | -17,041 |
| | Restoring acquisition accountability: Electronic protection excess to need | | | -17,041 |
| 59 | E-8 | 9,919 | 24,807 | +14,888 |
| | Transfer common data link: Air Force requested from RDAF line 213 | | | +14,888 |
| 61 | Family of Beyond Line-of-Sight Terminals | 14,293 | 11,283 | -3,010 |
| | Restoring acquisition accountability: FAB-T unit cost growth | | | -3,010 |
| 64 | RQ-4 Mods | 23,715 | 123,715 | +100,000 |
| | Program increase: Battlefield airborne communication node mission | | | +100,000 |
| 67 | MQ-9 Mods | 171,548 | 146,648 | -24,900 |
| | Restoring acquisition accountability: GCS block 30 upgrades excess to need | | | -24,900 |
| 70 | Initial Spares/Repair Parts | 956,408 | 778,508 | -177,900 |
| | Improving funds management: KC-46A spares excess to requirement | | | -133,000 |
| | Improving funds management: F-15 spares excess to requirement | | | -29,500 |
| | Improving funds management: E-3 spares excess to requirement | | | -15,400 |
| 81 | F-16 | 11,718 | 4,518 | -7,200 |
| | Improving funds management: Funds excess to need | | | -7,200 |
| 89 | Other Production Charges | 1,502,386 | 1,335,586 | -166,800 |
| | Classified adjustment | | | -166,800 |

Light Attack Aircraft.—The Committee understands that the Air Force is pursuing a new light attack aircraft using a rapid prototyping acquisition strategy in order to procure a low-cost aircraft

that provides close air support capability in permissive threat environments, build capability among allies and international partnerships, and reduce operational tempo on more expensive fourth and fifth generation fighter aircraft. While the Committee is supportive of these efforts, it is disappointed that the Air Force has relied on additional funding provided by Congress in order to facilitate the ongoing experiment. The Department of Defense Appropriations Act, 2018, provided \$100,000,000 to continue the experimentation program. However, the Air Force did not request any funding in the fiscal year 2019 President's budget request, while programming \$2,469,000,000 for procurement of light attack aircraft in fiscal years 2020 through 2024.

As Air Force leadership has continually stressed the importance of rapid procurement and fielding of this new capability, the Committee recommends \$300,000,000 for procurement of light attack aircraft and long lead materials. The Committee expects timely and complete communication from the Air Force on prototyping and experimentation activities. Accordingly, the Committee directs the Secretary of the Air Force, or her designee, to brief the House and Senate Appropriations Committees not fewer than 30 days prior to obligation of light attack procurement funding. This brief should clearly define objectives and requirements, transition plans, technology and manufacturing readiness levels, test activities, costs, schedules, and performance metrics. It should also include an acquisition strategy for the light attack program along with an execution plan for the fiscal year 2019 procurement funding.

C-135B Aircraft.—The fiscal year 2019 budget request includes \$222,176,000 for two replacement aircraft for the OC-135Bs currently performing unarmed observation flights over signatory nations to the Open Skies Treaty. While the Committee recommends fully funding this request, it is dismayed at the lack of justification materials, including an acquisition strategy, that were provided to the Committee. The Air Force is currently finalizing the detailed systems requirement document and is expected to finalize its acquisition strategy in August 2018. The Committee directs the Secretary of the Air Force to provide a report to the congressional defense committees not fewer than 30 days prior to the obligation of C-135B procurement funding that details the acquisition strategy, approved requirements, schedule, and cost estimates associated with these new aircraft.

Transfer of HC-130H Aircraft.—The Committee recognizes that the National Defense Authorization Act for Fiscal Year 2014 requirement for the Air Force to modify seven HC-130s to facilitate transfer from the U.S. Coast Guard to the U.S. Forest Service for wildfire suppression operations is predicated on a requirement that may no longer be valid. Funding provided for these modifications is currently being held by the Air Force pending an updated requirement validation from the U.S. Forest Service. The Committee strongly encourages the Secretary of the Air Force to notify the congressional defense committees before any prior year funds are obligated for this purpose.

MISSILE PROCUREMENT, AIR FORCE

| | |
|--------------------------------|-----------------|
| Appropriations, 2018 | \$2,207,747,000 |
| Budget estimate, 2019 | 2,669,454,000 |
| Committee recommendation | 2,614,954,000 |

The Committee recommends an appropriation of \$2,614,954,000. This is \$54,500,000 below the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table summarizes the budget estimate for this appropriation, the Committee recommendation, and the Committee recommended adjustments to the budget estimate:

[Dollars in thousands]

| Line | Item | Qty. | 2019 budget estimate | Qty. | Committee recommendation | Change from | |
|------|--|-------|----------------------|-------|--------------------------|-------------|-----------------|
| | | | | | | Qty. | Budget estimate |
| | MISSILE PROCUREMENT, AIR FORCE | | | | | | |
| | BALLISTIC MISSILES | | | | | | |
| | MISSILE REPLACEMENT EQUIPMENT—BALLISTIC | | | | | | |
| 1 | MISSILE REPLACEMENT EQ—BALLISTIC | | 36,786 | | 18,066 | | - 18,720 |
| | OTHER MISSILES | | | | | | |
| | TACTICAL | | | | | | |
| 2 | JOINT AIR—SURFACE STANDOFF MISSILE (JASSM) | 312 | 430,708 | 312 | 541,228 | | + 110,520 |
| 3 | LONG RANGE ANTI—SHIP MISSILE (LRASM) | 12 | 44,185 | 15 | 54,385 | + 3 | + 10,200 |
| 4 | SEAWINDER (AIM—9X) | 256 | 121,253 | 256 | 121,253 | | |
| 5 | AWRAAM | 220 | 337,886 | 220 | 337,886 | | |
| 6 | PREDATOR HELIFIRE MISSILE | 1,338 | 113,765 | 1,338 | 33,765 | | - 80,000 |
| 7 | SMALL DIAMETER BOMB | 2,917 | 105,034 | 2,917 | 35,034 | | - 70,000 |
| 8 | SMALL DIAMETER BOMB II | 510 | 100,861 | 510 | 100,861 | | |
| | INDUSTRIAL FACILITIES | | | | | | |
| 9 | INDUSTRIAL PREPAREDNESS/POLLUTION PREVENTION | | 787 | | 787 | | |
| | TOTAL, OTHER MISSILES | | 1,254,479 | | 1,225,199 | | - 29,280 |
| | MODIFICATION OF INSERVICE MISSILES | | | | | | |
| | CLASS IV | | | | | | |
| 10 | ICBM FUZE MOD | | 15,767 | | 15,767 | | |
| 11 | ICBM FUZE MOD (CAP—CY) | | 4,100 | | 4,100 | | |
| 12 | MM III MODIFICATIONS | | 129,199 | | 127,699 | | - 1,500 |
| 13 | AGM—650 MAVERICK | | 288 | | 288 | | |
| 14 | AIR LAUNCH CRUISE MISSILE | | 47,632 | | 47,632 | | |
| | TOTAL, MODIFICATION OF INSERVICE MISSILES | | 196,986 | | 195,486 | | - 1,500 |
| | SPARES AND REPAIR PARTS | | | | | | |
| 16 | INITIAL SPARES/REPAIR PARTS | | 97,481 | | 97,481 | | |
| | SPECIAL PROGRAMS | | | | | | |
| 18 | SPECIAL UPDATE PROGRAMS | | 188,539 | | 183,539 | | - 5,000 |

[Dollars in thousands]

| Line | Item | Qty. | 2019 budget estimate | Qty. | Committee recommendation | Change from | |
|------|---|------|----------------------|------|--------------------------|-------------|-----------------|
| | | | | | | Qty. | Budget estimate |
| | CLASSIFIED PROGRAMS | | 895,183 | | 895,183 | | |
| | TOTAL, SPECIAL PROGRAMS | | 1,083,722 | | 1,078,722 | | -5,000 |
| | TOTAL, MISSILE PROCUREMENT, AIR FORCE | | 2,669,454 | | 2,614,954 | | -54,500 |

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|---|----------------------|--------------------------|-----------------------------|
| 1 | Missile Replacement Eq-Ballistic | 36,786 | 18,066 | - 18,720 |
| | Restoring acquisition accountability: TERP schedule adjustments | | | - 18,720 |
| 2 | Joint Air-Surface Standoff Missile | 430,708 | 541,228 | + 110,520 |
| | Improving funds management: Forward financing support costs | | | - 14,480 |
| | Program increase | | | + 125,000 |
| 3 | LRASM | 44,185 | 54,385 | + 10,200 |
| | Program increase: Restore reduction | | | + 10,200 |
| 6 | Predator Hellfire Missile | 113,765 | 33,765 | - 80,000 |
| | Improving funds management: Munitions funded in Public Law 115-141 | | | - 50,000 |
| | Improving funds management: Prior year carryover | | | - 30,000 |
| 7 | Small Diameter Bomb | 105,034 | 35,034 | - 70,000 |
| | Improving funds management: Munitions funded in Public Law 115-141 | | | - 50,000 |
| | Improving funds management: Prior year carryover | | | - 20,000 |
| 12 | MM III Modifications | 129,199 | 127,699 | - 1,500 |
| | Maintain program affordability: Unjustified program management growth | | | - 1,500 |
| 18 | Special Update Programs | 188,539 | 183,539 | - 5,000 |
| | Classified adjustment | | | - 5,000 |

SPACE PROCUREMENT, AIR FORCE

| | |
|--------------------------------|-----------------|
| Appropriations, 2018 | \$3,552,175,000 |
| Budget estimate, 2019 | 2,527,542,000 |
| Committee recommendation | 2,224,142,000 |

The Committee recommends an appropriation of \$2,224,142,000. This is \$303,400,000 below the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table summarizes the budget estimate for this appropriation, the Committee recommendation, and the Committee recommended adjustments to the budget estimate:

[Dollars in thousands]

| Line | Item | Qty. | 2019 budget estimate | Qty. | Committee recommendation | Change from | |
|---|--|------|----------------------|------|--------------------------|-------------|-----------------|
| | | | | | | Qty. | Budget estimate |
| SPACE PROCUREMENT, AIR FORCE | | | | | | | |
| SPACE PROGRAMS | | | | | | | |
| 1 | ADVANCED EHF | | 29,829 | | 29,829 | | |
| 2 | AF SATELLITE COMM SYSTEM | | 35,400 | | 40,400 | | + 5,000 |
| 3 | COUNTERSPACE SYSTEMS | | 1,121 | | 1,121 | | |
| 4 | FAMILY OF BEYOND LINE-OF-SIGHT TERMINALS | | 27,867 | | 27,867 | | |
| 5 | WIDEBAND GAPPILLER SATELLITES | | 61,606 | | 12,106 | | - 49,500 |
| 6 | GENERAL INFORMATION TECHNOLOGY—SPACE | | 3,425 | | 3,425 | | |
| 7 | GPS III SPACE SEGMENT | | 69,386 | | 69,386 | | |
| 8 | GLOBAL POSITIONING (SPACE) | | 2,181 | | 2,181 | | |
| 9 | INTEG BROADCAST SERV | | 16,445 | | 16,445 | | |
| 10 | SPACEBORNE EQUIP (COMSEC) | | 31,895 | | 31,895 | | |
| 12 | MILSATCOM TERMINALS | | 11,265 | | 11,265 | | |
| 13 | EVOLVED EXPENDABLE LAUNCH VEH CAPABILITY | | 709,981 | | 615,081 | | - 94,900 |
| 14 | EVOLVED EXPENDABLE LAUNCH VEH (SPACE) | 5 | 994,555 | 4 | 830,555 | - 1 | - 164,000 |
| 15 | SBIR HIGH (SPACE) | | 138,397 | | 138,397 | | |
| 17 | NUDET DETECTION SYSTEM SPACE | | 7,705 | | 7,705 | | |
| 18 | ROCKET SYSTEM LAUNCH PROGRAM | | 47,609 | | 47,609 | | |
| 19 | SPACE FENCE | | 51,361 | | 51,361 | | |
| 20 | SPACE MODS SPACE | | 148,065 | | 148,065 | | |
| 21 | SPACE/LIFT RANGE SYSTEM SPACE | | 117,637 | | 117,637 | | |
| 22 | INITIAL SPARES/REPAIR PARTS | | 21,812 | | 21,812 | | |
| TOTAL, SPACE PROCUREMENT, AIR FORCE | | | 2,527,542 | | 2,224,142 | | - 303,400 |

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|--|----------------------|--------------------------|-----------------------------|
| 2 | AF Satellite Comm System | 35,400 | 40,400 | + 5,000 |
| | Program increase: GPS cyber security | | | + 5,000 |
| 5 | Wideband Gapfiller Satellites (Space) | 61,606 | 12,106 | - 49,500 |
| | Transfer to RDAF line 127: Pathfinder #5 | | | - 49,500 |
| 13 | Evolved Expendable Launch Capability | 709,981 | 615,081 | - 94,900 |
| | Restoring acquisition accountability: STP-4 launch early to need | | | - 44,900 |
| | Improving funds management: Historical underrun | | | - 50,000 |
| 14 | Evolved Expendable Launch Veh (Space) | 994,555 | 830,555 | - 164,000 |
| | Restoring acquisition accountability: STP-4 launch early to need | | | - 164,000 |

PROCUREMENT OF AMMUNITION, AIR FORCE

| | |
|--------------------------------|-----------------|
| Appropriations, 2018 | \$1,651,977,000 |
| Budget estimate, 2019 | 1,587,304,000 |
| Committee recommendation | 1,564,880,000 |

The Committee recommends an appropriation of \$1,564,880,000. This is \$22,424,000 below the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table summarizes the budget estimate for this appropriation, the Committee recommendation, and the Committee recommended adjustments to the budget estimate:

[Dollars in thousands]

| Line | Item | Qty. | 2019 budget estimate | Qty. | Committee recommendation | Change from | |
|---|---|-------|----------------------|-------|--------------------------|-------------|-----------------|
| | | | | | | Qty. | Budget estimate |
| PROCUREMENT OF AMMUNITION, AIR FORCE | | | | | | | |
| PROCUREMENT OF AMMO, AIR FORCE | | | | | | | |
| 1 | ROCKETS | | 345,911 | | 344,911 | | -1,000 |
| 2 | CARTRIDGES | | 163,840 | | 163,840 | | |
| BOMBS | | | | | | | |
| 3 | PRACTICE BOMBS | | 20,876 | | 20,876 | | |
| 4 | GENERAL PURPOSE BOMBS | | 259,308 | | 259,308 | | |
| 5 | MASSIVE ORDNANCE PENETRATOR (MOP) | | 38,111 | | 38,111 | | |
| 6 | JOINT DIRECT ATTACK MUNITION | 7,899 | 234,198 | 7,899 | 234,198 | | |
| 7 | B61 | 250 | 109,292 | 250 | 99,492 | | -9,800 |
| 8 | B61 | | 52,731 | | 52,731 | | |
| FLARE, IR MUI-7B | | | | | | | |
| 9 | CAD/PAD | | 51,455 | | 51,455 | | |
| 10 | EXPLOSIVE ORDNANCE DISPOSAL (EOD) | | 6,038 | | 6,038 | | |
| 11 | SPARES AND REPAIR PARTS | | 524 | | 524 | | |
| 12 | MODIFICATIONS | | 1,270 | | 847 | | -423 |
| 13 | ITEMS LESS THAN \$5,000,000 | | 4,604 | | 3,070 | | -1,534 |
| FLARES/FUZES | | | | | | | |
| 15 | FLARES | | 125,286 | | 125,286 | | |
| 16 | FUZES | | 109,358 | | 99,691 | | -9,667 |
| TOTAL, PROCUREMENT OF AMMO, AIR FORCE | | | 1,522,802 | | 1,500,378 | | -22,424 |
| WEAPONS | | | | | | | |
| 17 | SMALL ARMS | | 64,502 | | 64,502 | | |
| TOTAL, PROCUREMENT OF AMMUNITION, AIR FORCE | | | 1,587,304 | | 1,564,880 | | -22,424 |

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|---|----------------------|--------------------------|-----------------------------|
| 1 | Rockets | 345,911 | 344,911 | - 1,000 |
| | Restoring acquisition accountability: Hardware end item cost growth (2.75 Warhead WP Smoke) | | | - 1,000 |
| 7 | B61 | 109,292 | 99,492 | - 9,800 |
| | Restoring acquisition accountability: Support cost growth | | | - 9,800 |
| 12 | Modifications | 1,270 | 847 | - 423 |
| | Insufficient budget justification: Modifications | | | - 423 |
| 13 | Items Less Than \$5,000,000 | 4,604 | 3,070 | - 1,534 |
| | Insufficient budget justification: Items Less Than \$5,000,000 | | | - 1,534 |
| 16 | Fuzes | 109,358 | 99,691 | - 9,667 |
| | Restoring acquisition accountability: Unit cost discrepancy and support cost growth (FMU-139 D/B) | | | - 9,667 |

OTHER PROCUREMENT, AIR FORCE

| | |
|--------------------------------|------------------|
| Appropriations, 2018 | \$20,503,273,000 |
| Budget estimate, 2019 | 20,890,164,000 |
| Committee recommendation | 20,839,366,000 |

The Committee recommends an appropriation of \$20,839,366,000. This is \$50,798,000 below the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table summarizes the budget estimate for this appropriation, the Committee recommendation, and the Committee recommended adjustments to the budget estimate:

[Dollars in thousands]

| Line | Item | Qty. | 2019 budget estimate | Qty. | Committee recommendation | Change from | |
|------|--|------|----------------------|------|--------------------------|-------------|-----------------|
| | | | | | | Qty. | Budget estimate |
| | OTHER PROCUREMENT, AIR FORCE | | | | | | |
| | VEHICULAR EQUIPMENT | | | | | | |
| | PASSENGER CARRYING VEHICLES | | | | | | |
| 1 | PASSENGER CARRYING VEHICLE | | 6,949 | | 6,949 | | |
| 2 | CARGO + UTILITY VEHICLES | | | | | | |
| 3 | FAMILY MEDIUM TACTICAL VEHICLE | | 36,002 | | 36,002 | | |
| 4 | CAP VEHICLES | | 1,022 | | 1,700 | | + 678 |
| 5 | ITEMS LESS THAN \$5M (CARGO AND UTILITY VEHICLES) | | 42,696 | | 42,696 | | |
| 6 | SPECIAL PURPOSE VEHICLES | | | | | | |
| 7 | JOINT LIGHT TACTICAL VEHICLE | | 30,145 | | 34,142 | | + 3,997 |
| 8 | SECURITY AND TACTICAL VEHICLES | | 1,230 | | 1,230 | | |
| 9 | ITEMS LESS THAN \$5M (SPECIAL PURPOSE VEHICLES) | | 43,003 | | 55,008 | | + 12,005 |
| 10 | FIRE FIGHTING EQUIPMENT | | | | | | |
| 11 | FIRE FIGHTING/CRASH RESCUE VEHICLES | | 23,328 | | 32,708 | | + 9,380 |
| 12 | MATERIALS HANDLING EQUIPMENT | | | | | | |
| 13 | ITEMS LESS THAN \$5M (MATERIALS HANDLING EQUIPMENT) | | 11,537 | | 21,125 | | + 9,588 |
| 14 | BASE MAINTENANCE SUPPORT | | | | | | |
| 15 | RUNWAY SNOW REMOVAL & CLEANING EQUIP | | 37,600 | | 38,279 | | + 679 |
| 16 | ITEMS LESS THAN \$5M (BASE MAINTENANCE SUPPORT VEHICLES) | | 104,923 | | 104,923 | | |
| | TOTAL, VEHICULAR EQUIPMENT | | 338,435 | | 374,762 | | + 36,327 |
| | ELECTRONICS AND TELECOMMUNICATIONS EQUIP | | | | | | |
| | COMM SECURITY EQUIPMENT(COMSEC) | | | | | | |
| 17 | COMSEC EQUIPMENT | | 114,372 | | 118,972 | | + 4,600 |
| | INTELLIGENCE PROGRAMS | | | | | | |
| 18 | INTERNATIONAL INTEL TECH AND ARCHITECTURES | | 8,290 | | 8,290 | | |
| 19 | INTELLIGENCE TRAINING EQUIPMENT | | 2,099 | | 2,099 | | |
| 20 | INTELLIGENCE COMM EQUIP | | 37,415 | | 37,415 | | |

| | | | | | | | | | |
|----|---|-----------|-----------|--|--|--|--|--|----------|
| 16 | ELECTRONICS PROGRAMS | | | | | | | | |
| 17 | TRAFFIC CONTROL/LANDING | 57,937 | 42,937 | | | | | | -15,000 |
| 18 | BATTLE CONTROL SYSTEM—FIXED | 3,012 | 3,012 | | | | | | |
| 19 | THEATER AIR CONTROL SYS IMPRO | 19,989 | 19,989 | | | | | | |
| 20 | WEATHER OBSERVATION FORECAST | 45,020 | 52,520 | | | | | | +7,500 |
| 21 | STRATEGIC COMMAND AND CONTROL | 32,836 | 32,836 | | | | | | |
| 22 | CHEYENNE MOUNTAIN COMPLEX | 12,454 | 12,454 | | | | | | |
| 23 | MISSION PLANNING SYSTEMS | 14,263 | 14,263 | | | | | | |
| 25 | INTEGRATED STRAT PLAN AND ANALY NETWORK (ISPAN) | 7,769 | 7,769 | | | | | | |
| | SPECIAL COMM-ELECTRONICS PROJECTS | | | | | | | | |
| 26 | GENERAL INFORMATION TECHNOLOGY | 40,450 | 40,450 | | | | | | |
| 27 | AF GLOBAL COMMAND & CONTROL SYSTEM | 6,619 | 6,619 | | | | | | |
| 28 | MOBILITY COMMAND AND CONTROL | 10,192 | 10,192 | | | | | | |
| 29 | AIR FORCE PHYSICAL SECURITY SYSTEM | 159,313 | 47,115 | | | | | | -112,198 |
| 30 | COMBAT TRAINING RANGES | 132,675 | 236,175 | | | | | | +103,500 |
| 31 | MINIMUM ESSENTIAL EMERGENCY COMM N | 140,875 | 140,875 | | | | | | |
| 32 | WIDE AREA SURVEILLANCE (WAS) | 92,104 | 92,104 | | | | | | |
| 33 | C3 COUNTERMEASURES | 45,152 | 45,152 | | | | | | |
| 34 | GCSS—AF FOS | 483 | 483 | | | | | | |
| 35 | DEFENSE ENTERPRISE ACCOUNTING AND MGMT | 802 | 802 | | | | | | |
| 36 | MAINTENANCE REPAIR AND OVERHAUL INITIATIVE | 12,207 | 12,207 | | | | | | |
| 37 | THEATER BATTLE MGT C2 SYS | 7,644 | 7,644 | | | | | | |
| 38 | AIR AND SPACE OPERATIONS CTR—WPN SYSTEM | 40,066 | 40,066 | | | | | | |
| | AIR FORCE COMMUNICATIONS | | | | | | | | |
| 41 | INFORMATION TRANSPORT SYSTEMS | 22,357 | 22,357 | | | | | | |
| 42 | AFNET | 102,836 | 76,836 | | | | | | -26,000 |
| 43 | JOINT COMMUNICATIONS SUPPORT ELEMENT (UCSE) | 3,145 | 3,145 | | | | | | |
| 44 | USCENTCOM | 13,194 | 13,194 | | | | | | |
| | ORGANIZATION AND BASE | | | | | | | | |
| 45 | TACTICAL C-E EQUIPMENT | 161,231 | 87,531 | | | | | | -73,700 |
| 47 | RADIO EQUIPMENT | 12,142 | 12,142 | | | | | | |
| 48 | CCTV/AUDIOVISUAL EQUIPMENT | 6,505 | 3,005 | | | | | | -3,500 |
| 49 | BASE COMM INFRASTRUCTURE | 169,404 | 169,404 | | | | | | |
| | MODIFICATIONS | | | | | | | | |
| 50 | COMM ELECT MODS | 10,654 | 10,654 | | | | | | |
| | TOTAL, ELECTRONICS AND TELECOMMUNICATIONS EQUIP | 1,545,506 | 1,430,708 | | | | | | -114,798 |

[Dollars in thousands]

| Line | Item | Qty. | 2019 budget estimate | Qty. | Committee recommendation | Change from | |
|------|--|------|----------------------|------|--------------------------|-------------|-----------------------|
| | | | | | | Qty. | Budget estimate |
| | OTHER BASE MAINTENANCE AND SUPPORT EQUIP | | | | | | |
| 51 | PERSONAL SAFETY AND RESCUE EQUIP ITEMS LESS THAN \$5,000,000 (SAFETY) | | 51,906 | | 51,906 | | |
| 52 | DEPOT PLANT + MATERIALS HANDLING EQ MECHANIZED MATERIAL HANDLING | | 88,298 | | 88,298 | | |
| 53 | BASE SUPPORT EQUIPMENT | | | | | | |
| 54 | BASE PROCURED EQUIPMENT | | 17,031 | | 17,031 | | |
| 55 | ENGINEERING AND EOD EQUIPMENT | | 82,635 | | 82,635 | | |
| 56 | MOBILITY EQUIPMENT | | 9,549 | | 20,877 | | + 11,328 |
| | ITEMS LESS THAN \$5M (BASE SUPPORT) | | 24,005 | | 29,005 | | + 5,000 |
| 58 | SPECIAL SUPPORT PROJECTS | | | | | | |
| 59 | DARP RC135 | | 26,262 | | 26,262 | | |
| 61 | DISTRIBUTED GROUND SYSTEMS SPECIAL UPDATE PROGRAM | | 448,290 913,813 | | 378,490 900,813 | | - 69,800 - 13,000 |
| | TOTAL, OTHER BASE MAINTENANCE AND SUPPORT EQUIP | | 1,661,789 | | 1,595,317 | | - 66,472 |
| 63 | SPARE AND REPAIR PARTS | | | | | | |
| 64 | SPARES AND REPAIR PARTS UNDISTRIBUTED CLASSIFIED PROGRAMS | | 86,365 17,258,069 | | 86,365 17,372,214 | | - 20,000 + 114,145 |
| | TOTAL, OTHER PROCUREMENT, AIR FORCE | | 20,890,164 | | 20,839,366 | | - 50,798 |

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|---|----------------------|--------------------------|-----------------------------|
| 3 | Cap Vehicles | 1,022 | 1,700 | + 678 |
| | Program increase: Civil air patrol—vehicles | | | + 678 |
| 5 | Joint Light Tactical Vehicle | 30,145 | 34,142 | + 3,997 |
| | Program increase: Procurement of 7 DABs for INDOPACOM | | | + 3,997 |
| 7 | Special Purpose Vehicles | 43,003 | 55,008 | + 12,005 |
| | Program increase: Procurement of 7 DABs for INDOPACOM | | | + 12,005 |
| 8 | Fire Fighting/Crash Rescue Vehicles | 23,328 | 32,708 | + 9,380 |
| | Program increase: Procurement of 7 DABs for INDOPACOM | | | + 9,380 |
| 9 | Materials Handling Vehicles | 11,537 | 21,125 | + 9,588 |
| | Program increase: Procurement of 7 DABs for INDOPACOM | | | + 9,588 |
| 10 | Runway Snow Remov And Cleaning Equ | 37,600 | 38,279 | + 679 |
| | Program increase: Procurement of 7 DABs for INDOPACOM | | | + 679 |
| 12 | Comsec Equipment | 114,372 | 118,972 | + 4,600 |
| | Program increase: Missile electronic encryption device ... | | | + 12,900 |
| | Maintain Program Affordability: Unjustified growth for COMSEC equipment | | | - 8,300 |
| 16 | Air Traffic Control & Landing Sys | 57,937 | 42,937 | - 15,000 |
| | Maintain Program Affordability: D-RAPCON | | | - 15,000 |
| 20 | Weather Observation Forecast | 45,020 | 52,520 | + 7,500 |
| | Program increase: Portable doppler radar | | | + 7,500 |
| 29 | Air Force Physical Security System | 159,313 | 47,115 | - 112,198 |
| | Program increase: Procurement of 7 DABs for INDOPACOM | | | + 2,002 |
| | Improving Funds Management: JUON funded in Public Law 115-141 | | | - 114,200 |
| 30 | Combat Training Ranges | 132,675 | 236,175 | + 103,500 |
| | Program increase: ANG electronic warfare range requirements—threat emitters | | | + 40,000 |
| | Program increase: Threat simulators and equipment to support F-35A beddown | | | + 63,500 |
| 42 | AFNET | 102,836 | 76,836 | - 26,000 |
| | Improving Funds Management: ARAD enterprise software funded in Public Law 115-141 | | | - 26,000 |
| 45 | Tactical C-E Equipment | 161,231 | 87,531 | - 73,700 |
| | Improving Funds Management: Carryover | | | - 10,000 |
| | Improving Funds Management: Previously funded requirement | | | - 63,700 |
| 48 | CCTV/Audiovisual Equipment | 6,505 | 3,005 | - 3,500 |
| | Improving Funds Management: Carryover | | | - 3,500 |
| 55 | Mobility Equipment | 9,549 | 20,877 | + 11,328 |
| | Program increase: Procurement of 7 DABs for INDOPACOM | | | + 11,328 |
| 56 | Base Maintenance and Support Equipment | 24,005 | 29,005 | + 5,000 |
| | Program increase: Precision approach radar | | | + 5,000 |
| 59 | DCGS-AF | 448,290 | 378,490 | - 69,800 |
| | Improving Funds Management: OA forward buys funded in Public Law 115-141 | | | - 69,800 |
| 61 | Special Update Program | 913,813 | 900,813 | - 13,000 |
| | Classified Adjustment | | | - 13,000 |
| 999 | Classified Programs | 17,258,069 | 17,372,214 | + 114,145 |
| | Classified Adjustment | | | + 114,145 |

Basic Expeditionary Airfield Resources Energy Efficiency.—The Committee notes that providing adequate living conditions ensures that deployed forces are more combat effective. Therefore, the Committee encourages the Secretary of the Air Force to leverage existing technologies, such as reusable and re-deployable insulation systems, in order to reduce logistics and sustainment costs associated with shelters in the Basic Expeditionary Airfield Resources [BEAR] program.

PROCUREMENT, DEFENSE-WIDE

| | |
|--------------------------------|-----------------|
| Appropriations, 2018 | \$5,429,270,000 |
| Budget estimate, 2019 | 6,786,271,000 |
| Committee recommendation | 6,663,821,000 |

The Committee recommends an appropriation of \$6,663,821,000. This is \$122,450,000 below the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table summarizes the budget estimate for this appropriation, the Committee recommendation, and the Committee recommended adjustments to the budget estimate:

[Dollars in thousands]

| Line | Item | Qty. | 2019 budget estimate | Qty. | Committee recommendation | Change from | |
|------|--|------|----------------------|------|--------------------------|-------------|-----------------|
| | | | | | | Qty. | Budget estimate |
| | PROCUREMENT, DEFENSE-WIDE | | | | | | |
| | MAJOR EQUIPMENT | | | | | | |
| | MAJOR EQUIPMENT, DCAA | | | | | | |
| 1 | MAJOR EQUIPMENT ITEMS LESS THAN \$5M | | 2,542 | | 2,542 | | |
| | MAJOR EQUIPMENT, DCMA | | | | | | |
| 2 | MAJOR EQUIPMENT | | 3,873 | | 3,873 | | |
| | MAJOR EQUIPMENT, DHRA | | | | | | |
| 3 | PERSONNEL ADMINISTRATION | | 10,630 | | 10,630 | | |
| | MAJOR EQUIPMENT, DISA | | | | | | |
| 7 | INFORMATION SYSTEMS SECURITY | | 21,590 | | 21,590 | | |
| 8 | TELEPORT PROGRAM | | 33,905 | | 33,905 | | |
| 9 | ITEMS LESS THAN \$5M | | 27,886 | | 24,071 | | -3,815 |
| 10 | NET CENTRIC ENTERPRISE SERVICES (NCES) | | 1,017 | | 1,017 | | |
| 11 | DEFENSE INFORMATION SYSTEMS NETWORK | | 150,674 | | 150,674 | | |
| 13 | WHITE HOUSE COMMUNICATION AGENCY | | 94,610 | | 94,610 | | |
| 14 | SENIOR LEADERSHIP ENTERPRISE | | 197,246 | | | | -197,246 |
| 16 | JOINT REGIONAL SECURITY STACKS (JRSS) | | 140,338 | | 140,338 | | |
| 17 | JOINT SERVICE PROVIDER | | 107,182 | | 100,442 | | -6,740 |
| | MAJOR EQUIPMENT, DLA | | | | | | |
| 18 | MAJOR EQUIPMENT | | 5,225 | | 5,225 | | |
| | MAJOR EQUIPMENT, DMACT | | | | | | |
| 19 | A—WEAPON SYSTEM COST | 3 | 13,106 | 3 | 13,106 | | |
| | MAJOR EQUIPMENT, DODEA | | | | | | |
| 20 | AUTOMATION/EDUCATIONAL SUPPORT & LOGISTICS | | 1,723 | | 862 | | -861 |
| | MAJOR EQUIPMENT, DSS | | | | | | |
| 21 | MAJOR EQUIPMENT | | 1,196 | | 598 | | -598 |
| | MAJOR EQUIPMENT, DEFENSE THREAT REDUCTION AGENCY | | | | | | |
| 23 | VEHICLES | | 207 | | 207 | | |
| 24 | OTHER MAJOR EQUIPMENT | | 5,592 | | 5,592 | | |

[Dollars in thousands]

| Line | Item | Qty. | 2019 budget estimate | Qty. | Committee recommendation | Change from | |
|------|---|------|----------------------|------|--------------------------|-------------|-----------------|
| | | | | | | Qty. | Budget estimate |
| 26 | MAJOR EQUIPMENT, MDA | | | | | | |
| 27 | THAAD SYSTEM | 82 | 874,068 | 82 | 1,014,068 | | + 140,000 |
| 28 | GROUND BASED MIDCOURSE | 14 | 409,000 | 14 | 450,000 | | + 41,000 |
| 29 | GROUND BASED MIDCOURSE [AP-CY] | | 115,000 | | 115,000 | | |
| 30 | AEGIS BMD | 43 | 593,488 | 43 | 708,694 | | + 115,206 |
| 31 | AEGIS BMD (AP) | | 115,206 | | | | - 115,206 |
| 32 | BMDs AN/TPY-2 RADARS | | 13,185 | | 13,185 | | |
| 33 | ISRAELI PROGRAMS | | 80,000 | | 80,000 | | |
| 34 | SHORT RANGE BALLISTIC MISSILE DEFENSE (SRBMD) | | 50,000 | | 50,000 | | |
| 35 | AEGIS ASHORE PHASE III | | 15,000 | | 35,000 | | + 20,000 |
| 36 | IRON DOME SYSTEM | | 70,000 | | 70,000 | | |
| | AEGIS BMD HARDWARE AND SOFTWARE | 28 | 97,057 | 28 | 97,057 | | |
| 42 | MAJOR EQUIPMENT, NSA | | | | | | |
| | INFORMATION SYSTEMS SECURITY PROGRAM [ISSP] | | 5,403 | | 30,703 | | + 25,300 |
| 43 | MAJOR EQUIPMENT, OSD | | | | | | |
| | MAJOR EQUIPMENT, OSD | | 35,295 | | 35,295 | | |
| 44 | MAJOR EQUIPMENT, TJS | | | | | | |
| 45 | MAJOR EQUIPMENT, TJS-CE212 | | 4,360 | | 4,360 | | |
| | MAJOR EQUIPMENT, WHS | | 904 | | 904 | | |
| 46 | MAJOR EQUIPMENT, WHS | | 497 | | 497 | | |
| | TOTAL, MAJOR EQUIPMENT | | 3,297,005 | | 3,314,045 | | + 17,040 |
| | SPECIAL OPERATIONS COMMAND | | | | | | |
| | AVIATION PROGRAMS | | | | | | |
| 50 | SOF ROTARY WING UPGRADES AND SUSTAINMENT | | 148,351 | | 139,612 | | - 8,739 |
| 51 | UNMANNED ISR | | 57,708 | | 57,708 | | |
| 52 | NON-STANDARD AVIATION | | 18,731 | | 18,731 | | |
| 53 | SOF U-28 | | 32,301 | | 32,301 | | |
| 54 | MH-47 CHINOOK | | 131,033 | | 131,033 | | |
| 55 | CY-22 SOF MODIFICATION | | 32,529 | | 32,529 | | |

| | | | | | | |
|----|---|-----------|-----------|-----------|---------|-------|
| 56 | MQ-9 UNMANNED AERIAL VEHICLE | 24,621 | 24,621 | 24,621 | 24,621 | ..... |
| 57 | PRECISION STRIKE PACKAGE | 226,965 | 226,965 | 226,965 | 226,965 | ..... |
| 58 | AC/MC-130J | 165,813 | 165,813 | 155,681 | 10,132 | ..... |
| 59 | C-130 MODIFICATIONS | 80,274 | 80,274 | 80,274 | ..... | ..... |
| 60 | SHIPBUILDING UNDERWATER SYSTEMS | 136,723 | 136,723 | 123,071 | 13,652 | ..... |
| 61 | AMMUNITION PROGRAMS SOF ORDNANCE ITEMS UNDER \$5,000,000 | 357,742 | 357,742 | 325,042 | 32,700 | ..... |
| 62 | OTHER PROCUREMENT PROGRAMS | 85,699 | 85,699 | 85,699 | ..... | ..... |
| 63 | DGGS-SOF | 17,863 | 17,863 | 17,863 | ..... | ..... |
| 64 | OTHER ITEMS UNDER \$5,000,000 | 112,117 | 112,117 | 106,250 | 5,867 | ..... |
| 65 | SOF COMBATANT CRAFT SYSTEMS | 7,313 | 7,313 | 15,913 | +8,600 | ..... |
| 66 | SPECIAL PROGRAMS | 14,026 | 14,026 | 14,026 | ..... | ..... |
| 67 | TACTICAL VEHICLES | 88,608 | 88,608 | 85,608 | 3,000 | ..... |
| 68 | WARRIOR SYSTEMS UNDER \$5,000,000 | 438,590 | 438,590 | 415,590 | 23,000 | ..... |
| 69 | COMBAT MISSION REQUIREMENTS | 19,408 | 19,408 | 19,408 | ..... | ..... |
| 70 | SOF GLOBAL VIDEO SURVEILLANCE ACTIVITIES | 6,281 | 6,281 | 6,281 | ..... | ..... |
| 71 | SOF OPERATIONAL ENHANCEMENTS INTELLIGENCE | 18,509 | 18,509 | 18,509 | ..... | ..... |
| 73 | SOF OPERATIONAL ENHANCEMENTS | 367,433 | 367,433 | 332,333 | 35,100 | ..... |
| | TOTAL, SPECIAL OPERATIONS COMMAND | 2,588,638 | 2,588,638 | 2,465,048 | 123,590 | ..... |
| 76 | CHEMICAL/BIOLOGICAL DEFENSE | 166,418 | 166,418 | 161,918 | 4,500 | ..... |
| 77 | CHEMICAL BIOLOGICAL SITUATIONAL AWARENESS | 144,519 | 144,519 | 142,519 | 2,000 | ..... |
| | CB PROTECTION AND HAZARD MITIGATION | 310,937 | 310,937 | 304,437 | 6,500 | ..... |
| | TOTAL, CHEMICAL/BIOLOGICAL DEFENSE | 589,691 | 589,691 | 580,291 | 9,400 | ..... |
| | CLASSIFIED PROGRAMS | 6,786,271 | 6,786,271 | 6,663,821 | 122,450 | ..... |
| | TOTAL, PROCUREMENT, DEFENSE-WIDE | | | | | |

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|---|----------------------|--------------------------|-----------------------------|
| 9 | Items Less Than \$5 Million | 27,886 | 24,071 | - 3,815 |
| | Maintain program affordability: Unjustified growth | | | - 3,815 |
| 14 | Senior Leadership Enterprise | 197,246 | | - 197,246 |
| | Insufficient budget justification: Lack of supporting justification | | | - 197,246 |
| 16 | Joint Service Provider | 107,182 | 100,442 | - 6,740 |
| | Maintain program affordability: Unjustified growth in end user services | | | - 6,740 |
| 20 | Automation/Educational Support & Logistics | 1,723 | 862 | - 861 |
| | Improving funds management: Prior year carryover | | | - 861 |
| 21 | Major Equipment | 1,196 | 598 | - 598 |
| | Improving funds management: Prior year carryover | | | - 598 |
| 26 | THAAD | 874,068 | 1,014,068 | + 140,000 |
| | Program increase: THAAD interceptors | | | + 140,000 |
| 27 | Ground Based Midcourse | 409,000 | 450,000 | + 41,000 |
| | Transfer: Transfer funding for missile field components from Research, Development, Test and Evaluation, Defense-wide, line 73 for proper execution: Transfer requested by Missile Defense Agency | | | + 41,000 |
| 29 | Aegis BMD | 593,488 | 708,694 | + 115,206 |
| | Transfer: Transfer from line 30 for additional SM-3 Block IIA interceptors | | | + 115,206 |
| 30 | Aegis BMD [AP-CY] | 115,206 | | - 115,206 |
| | Restoring acquisition accountability: Lack of justification—transfer to line 29 for additional SM-3 Block IIA interceptors | | | - 115,206 |
| 34 | Aegis Ashore Phase III | 15,000 | 35,000 | + 20,000 |
| | Program increase: AEGIS Ashore Poland | | | + 20,000 |
| 42 | Information Systems Security Program [ISSP] | 5,403 | 30,703 | + 25,300 |
| | Program increase: Sharkseer | | | + 25,300 |
| 50 | Rotary Wing Upgrades and Sustainment | 148,351 | 139,612 | - 8,739 |
| | Maintain program affordability: MPU unjustified request | | | - 6,914 |
| | Restoring acquisition accountability: NGEN FLIR delays | | | - 1,825 |
| 58 | AC/MC-130J | 165,813 | 155,681 | - 10,132 |
| | Improving funds management: RFCM ICS carryover | | | - 2,132 |
| | Maintain program affordability: MC-130J SMS unjustified growth | | | - 8,000 |
| 60 | Underwater Systems | 136,723 | 123,071 | - 13,652 |
| | Restoring acquisition accountability: DCS components ahead of need | | | - 13,652 |
| 61 | Ordnance Items <\$5M | 357,742 | 325,042 | - 32,700 |
| | Restoring acquisition accountability: SOPGM unit cost adjustments | | | - 25,000 |
| | Restoring acquisition accountability: 30MM and 105MM unit cost adjustments | | | - 7,700 |
| 64 | Other Items <\$5M | 112,117 | 106,250 | - 5,867 |
| | Restoring acquisition accountability: MMP-M ahead of need | | | - 5,867 |
| 65 | Combatant Craft Systems | 7,313 | 15,913 | + 8,600 |
| | Program increase: Combatant craft | | | + 8,600 |
| 67 | Tactical Vehicles | 88,608 | 85,608 | - 3,000 |
| | Improving funds management: Requirements funded in Public Law 115-141 | | | - 3,000 |
| 68 | Warrior Systems <\$5M | 438,590 | 415,590 | - 23,000 |
| | Improving funds management: Requirements funded in Public Law 115-141 | | | - 23,000 |
| 73 | Operational Enhancements | 367,433 | 332,333 | - 35,100 |

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|---|----------------------|--------------------------|-----------------------------|
| | Improving funds management: Requirements funded in Public Law 115–141 | | | – 35,100 |
| 74 | Chemical Biological Situational Awareness | 166,418 | 161,918 | – 4,500 |
| | Maintain program affordability: Unjustified growth | | | – 7,500 |
| | Program increase: CBRN dismantled reconnaissance system | | | + 3,000 |
| 75 | CB Protection & Hazard Mitigation | 144,519 | 142,519 | – 2,000 |
| | Maintain program affordability: Unjustified growth | | | – 3,000 |
| | Program increase: DfOS CIDAS | | | + 1,000 |
| 999 | Classified Programs | 589,691 | 580,291 | – 9,400 |
| | Classified adjustment | | | – 9,400 |

Chemical Biological Protective Shelter [CBPS].—The Committee recognizes the need for a highly mobile, self-contained collective protection system that can provide a contamination free working area for Echelon I and II medical treatment facilities and other selected units. CBPS satisfies that requirement and consists of a self-contained and self-powered shelter that is modularized and integrated into a service selected prime-mover. Therefore, the Committee supports the fiscal year 2019 President’s budget request of \$17,673,000 for the CBPS program.

NATIONAL GUARD AND RESERVE EQUIPMENT

| | |
|--------------------------------|------------------------------|
| Appropriations, 2018 | ¹ \$1,300,000,000 |
| Budget estimate, 2019 | |
| Committee recommendation | 900,000,000 |

¹ Provided in Public Law 115–141, title IX.

The Committee recommends an appropriation of \$900,000,000. This is \$900,000,000 above the budget estimate.

The appropriation includes direction for the component commanders of the Army Reserve, Marine Forces Reserve, Air Force Reserve, Army National Guard and Air National Guard to submit to the congressional defense committees a detailed assessment of their component’s modernization priorities, not later than 30 days after enactment of this act.

COMMITTEE RECOMMENDED PROGRAM

The following table details the program recommended by the Committee:

[In thousands of dollars]

| Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|---|----------------------|--------------------------|-----------------------------|
| NATIONAL GUARD AND RESERVE EQUIPMENT | | | |
| RESERVE EQUIPMENT: | | | |
| ARMY RESERVE: | | | |
| Program increase: Miscellaneous equipment | | 124,500 | + 124,500 |
| NAVY RESERVE: | | | |
| Program increase: Miscellaneous equipment | | 45,000 | + 45,000 |
| MARINE CORPS RESERVE: | | | |
| Program increase: Miscellaneous equipment | | 9,000 | + 9,000 |

[In thousands of dollars]

| Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|---|----------------------|--------------------------|-----------------------------|
| AIR FORCE RESERVE: | | | |
| Program increase: Miscellaneous equipment | | 138,500 | + 138,500 |
| TOTAL, RESERVE EQUIPMENT | | 317,000 | + 317,000 |
| NATIONAL GUARD EQUIPMENT: | | | |
| ARMY NATIONAL GUARD: | | | |
| Program increase: Miscellaneous equipment | | 291,500 | + 291,500 |
| AIR NATIONAL GUARD: | | | |
| Program increase: Miscellaneous equipment | | 291,500 | + 291,500 |
| TOTAL, NATIONAL GUARD EQUIPMENT | | 583,000 | + 583,000 |
| TOTAL, NATIONAL GUARD AND RESERVE EQUIPMENT | | 900,000 | + 900,000 |

High-Priority Items.—The Committee directs that the National Guard and Reserve Equipment account shall be executed by the Chiefs of the National Guard and reserve components with priority consideration given to the following items: Acoustic Hailing Devices, Arctic Sustainment Package, Cold Weather and Mountaineering Gear and Equipment, Commercial Off-the-Shelf Simulation Devices, Detect and Avoid Systems for MQ-9 Aircraft, Digital Radar Warning Receivers for F-16s, MQ-9 Deployable Launch & Recovery Element Mission Support Kits, Radiac Sets, and Small Unit Support Vehicles.

Commercial Off-the-Shelf Simulation Devices.—The Committee commends the Army National Guard for its innovative approach to acquiring commercial off-the-shelf simulation devices. Utilizing COTS training devices enables the Guard to provide high quality, timely simulation training at an affordable cost. The Committee encourages the Guard to continue utilizing COTS simulation training devices and to consider a service and support business model for simulation training in order to maximize the benefits of modern, realistic training scenarios.

DEFENSE PRODUCTION ACT PURCHASES

| | |
|--------------------------------|--------------|
| Appropriations, 2018 | \$67,401,000 |
| Budget estimate, 2019 | 38,578,000 |
| Committee recommendation | 38,578,000 |

The Committee recommends an appropriation of \$38,578,000. This is equal to the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table summarizes the budget estimate for this appropriation, the Committee recommendation, and the Committee recommended adjustments to the budget estimate:

[Dollars in thousands]

| Line | Item | Qty. | 2019 budget estimate | Qty. | Committee recommendation | Change from | |
|------|---|------|----------------------|------|--------------------------|-------------|-----------------|
| | | | | | | Qty. | Budget estimate |
| 1 | DEFENSE PRODUCTION ACT PURCHASES | | 38,578 | | 38,578 | | |
| | TOTAL, DEFENSE PRODUCTION ACT PURCHASES | | 38,578 | | 38,578 | | |

Defense Production Act.—The fiscal year 2019 budget request includes \$38,578,000 for the Defense Production Act [DPA] Fund. For the second consecutive year, the Committee supports the DPA Fund budget request but does not provide additional funding. The Committee remains supportive of DPA’s unique mission to address single points of failure in supply chains, support emerging technology, expand Defense-centric companies into commercial sectors, and improve the manufacturing capacity of companies when there are few market incentives. However, the Committee is concerned with the management of the DPA Fund. Despite recent Congressional adds to the DPA Fund, the Committee notes the gradual decrease of debits to the DPA Fund for projects since fiscal year 2015. Therefore, the Committee directs the Secretary of Defense to report to the congressional defense committees not later than 30 days after enactment of this act on the management of the DPA Fund, to include an update on the status and plan to accelerate the execution of funds, the way forward on the Executive Agent issue, and explanations on the differences between the projects requested in the budget request and subsequent funding profiles provided during the year of execution.

JOINT URGENT OPERATIONAL NEEDS FUND

| | |
|--------------------------------|---------------|
| Appropriations, 2018 | |
| Budget estimate, 2019 | \$100,025,000 |
| Committee recommendation | |

The Committee recommends no funding for the Joint Urgent Operational Needs Fund.

TITLE IV

RESEARCH, DEVELOPMENT, TEST AND EVALUATION

Funds appropriated under this title provide the resources required to conduct a program of research, development, test and evaluation, including research in basic science, applied research, advanced technology development, demonstration and validation, engineering and manufacturing development, and operational systems development.

The President's fiscal year 2019 budget requests a total of \$91,056,950,000 for research, development, test and evaluation appropriations.

SUMMARY OF COMMITTEE ACTION

The Committee recommends research, development, test and evaluation appropriations totaling \$95,131,819,000 for fiscal year 2019. This is \$4,074,869,000 above the budget estimate.

Committee recommended research, development, test and evaluation appropriations for fiscal year 2019 are summarized below:

SUMMARY OF RESEARCH, DEVELOPMENT, TEST AND EVALUATION APPROPRIATIONS

[In thousands of dollars]

| Account | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|--|----------------------|--------------------------|-----------------------------|
| Research, Development, Test and Evaluation: | | | |
| Research, Development, Test and Evaluation, Army | 10,159,379 | 10,812,458 | + 653,079 |
| Research, Development, Test and Evaluation, Navy | 18,481,666 | 18,992,064 | + 510,398 |
| Research, Development, Test and Evaluation, Air Force | 40,178,343 | 40,896,667 | + 718,324 |
| Research, Development, Test and Evaluation, Defense-Wide | 22,016,553 | 24,049,621 | + 2,033,068 |
| Operational Test and Evaluation, Defense | 221,009 | 381,009 | + 160,000 |
| Total | 91,056,950 | 95,131,819 | + 4,074,869 |

REPROGRAMMING GUIDANCE FOR ACQUISITION ACCOUNTS

The Secretary of Defense is directed to continue to follow the reprogramming guidance as specified in the report accompanying the House version of the Department of Defense appropriations bill for fiscal year 2008 (House Report 110-279). Specifically, the dollar threshold for reprogramming funds will remain at \$20,000,000 for procurement and \$10,000,000 for research, development, test and evaluation.

Also, the Under Secretary of Defense (Comptroller) is directed to continue to provide the congressional defense committees quarterly, spreadsheet-based DD Form 1416 reports for service and defense-wide accounts in titles III and IV of this act. Reports for titles III and IV shall comply with guidance specified in the explanatory statement accompanying the Department of Defense Appropria-

tions Act for Fiscal Year 2006. The Department shall continue to follow the limitation that prior approval reprogrammings are set at either the specified dollar threshold or 20 percent of the procurement or research, development, test and evaluation line, whichever is less. These thresholds are cumulative from the base for reprogramming value as modified by any adjustments. Therefore, if the combined value of transfers into or out of a procurement (P-1), or a research, development, test and evaluation (R-1) line exceeds the identified threshold, the Secretary of Defense must submit a prior approval reprogramming to the congressional defense committees. In addition, guidelines on the application of prior approval reprogramming procedures for congressional special interest items are established elsewhere in this report.

FUNDING INCREASES

The funding increases outlined in the tables for each appropriation account shall be provided only for the specific purposes indicated in the tables.

RESEARCH, DEVELOPMENT, TEST AND EVALUATION SPECIAL INTEREST ITEMS

Items for which additional funds have been recommended or items for which funding is specifically reduced as shown in the tables detailing Committee recommended adjustments or in paragraphs using the phrase “only for” or “only to” are congressional special interest items for the purpose of the Base for Reprogramming [DD Form 1414]. Each of these items must be carried on the DD Form 1414 at the stated amount, as specifically addressed in elsewhere in this report.

RESEARCH, DEVELOPMENT, TEST AND EVALUATION OVERVIEW

Basic Research.—The Committee understands that basic research is the foundation for Department of Defense innovation and future technologies. As the Under Secretary of Defense (Research and Engineering) recently testified before the Committee: “The Department of Defense has the third largest investment among Federal agencies in basic research at U.S. universities, who have, through years of continued investments, been the source of many of today’s transformational technologies. Traditionally, the Department has viewed the role of universities as producing the research innovation, the Department of Defense labs as the mechanism to nurture these findings and to render them defense-applicable, and the defense industrial base to integrate these new technologies into acquisition programs.” Accordingly, the Committee recommends a total basic research investment of \$2,798,456,000, an increase of \$529,280,000 above the fiscal year 2019 budget request. This includes an additional \$125,000,000 in Research, Development, Test and Evaluation, Army; \$125,000,000 in Research, Development, Test and Evaluation, Navy; \$125,000,000 in Research, Development, Test and Evaluation, Air Force; and \$100,000,000 in Research, Development, Test and Evaluation, Defense-Wide.

Directed Energy.—The 2018 National Defense Strategy describes a changing security environment due to rapid technological ad-

vancements and the changing character of war. The Committee understands that directed energy, a family of emerging non-kinetic capabilities, will play a key role in shaping the air, maritime, and ground battlefield environments. The Committee has been supportive of the Department's directed energy activities to date to ensure that these capabilities are an operational advantage for the U.S. military. The Committee supports additional investments to further develop directed energy technology and transition these activities to both offensive and defensive capabilities in the future. As a result, the Committee recommends an additional \$316,500,000 above the President's budget request for directed energy activities. Specifically, the Committee recommends an additional \$150,000,000 for Air Force prototyping activities to support the application of directed energy technology for air base air defense, precision attack, and aircraft self-protection. These investments are intended to support the Air Force Directed Energy Weapon Flight Plan and the continued development of high energy lasers and high-power microwave weapons. Additional investments to advance the development of directed energy capabilities by the Missile Defense Agency are addressed separately.

Hypersonics.—The 2018 National Defense Strategy identifies hypersonics as a key technology to ensure that the United States maintains its technology superiority and ability to fight and win the wars in the future. The fiscal year 2019 President's budget request invests in both offensive and defensive hypersonics capabilities. The Committee understands that the Department of Defense is accelerating existing efforts in hypersonics to counter the progress made by near peer threats. To support and accelerate several of the Department's current activities, the Committee recommends an increase of \$928,600,000 over the President's budget request to support hypersonics research and prototyping efforts. Specifically, the Committee recommends an additional \$345,000,000 for the Office of the Secretary of Defense to accelerate prompt global strike capability development as well as an additional \$50,000,000 for the Defense Advanced Research Projects Agency to develop offensive hypersonic weapons. Further, the recommendation includes an additional \$300,000,000 to support the Air Force's decision to accelerate prototyping efforts for the air launched rapid response weapon and hypersonic conventional strike weapon. Finally, the Committee recommends an additional \$113,000,000 for the Navy and the Strategic Capabilities Office to design, fabricate, and test an advanced rail gun mount and continue development of associated hypervelocity projectile. Additional investments to advance the development of hypersonic capabilities by the Missile Defense Agency are addressed separately.

Department of Defense Test and Evaluation Infrastructure.—The 2018 National Defense Strategy addresses the increasingly complex global threat environment driven in part by rapid technological advancements. The fiscal year 2019 President's budget request proposes investments in several programs that support a more capable and lethal force to prepare for this threat environment, including directed energy, hypersonics, advanced computing, big data analytics, artificial intelligence, autonomy, and robotics programs; the

Committee recommends targeted increases in these high priority areas to further accelerate U.S. technological innovation.

The Committee believes that concurrent with investments in leap-ahead technological advancements, an investment in the Department of Defense test and evaluation infrastructure is required to increase testing range space and availability and to ensure continued independent and objective assessments of weapon system capabilities. Therefore, after consultation with the Under Secretary of Defense (Research and Engineering) and Director, Operational Test and Evaluation, the Committee recommends an increase of \$846,000,000 above the President's budget request for the Army, Navy, Air Force and Office, Director, Operational Test and Evaluation to modernize the Department of Defense test and evaluation infrastructure in areas such as hypersonics, directed energy, augmented intelligence, machine learning and robotics.

The Committee directs the Under Secretary of Defense (Research and Engineering), in conjunction with the Director, Operational Test and Evaluation, and the Secretaries of the Army, Navy and Air Force, to conduct an in-depth assessment of the Department of Defense test and evaluation infrastructure and to identify improvements required to address future warfighting capabilities. The assessment shall be provided to the congressional defense committees not later than with the submission of the fiscal year 2020 President's budget request and shall include proposed coordinated investments by warfighting area in priority order and with associated cost estimates.

RESEARCH, DEVELOPMENT, TEST AND EVALUATION, ARMY

| | |
|--------------------------------|------------------|
| Appropriations, 2018 | \$10,647,426,000 |
| Budget estimate, 2019 | 10,159,379,000 |
| Committee recommendation | 10,812,458,000 |

The Committee recommends an appropriation of \$10,812,458,000. This is \$653,079,000 above the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table summarizes the budget estimate for this appropriation, the Committee recommendation, and the Committee recommended adjustments to the budget estimate:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|--|----------------------|--------------------------|-----------------------------|
| | RESEARCH, DEVELOPMENT, TEST & EVAL, ARMY | | | |
| | BASIC RESEARCH | | | |
| 1 | IN-HOUSE LABORATORY INDEPENDENT RESEARCH | 11,585 | 11,585 | ..... |
| 2 | DEFENSE RESEARCH SCIENCES | 276,912 | 377,912 | + 101,000 |
| 3 | UNIVERSITY RESEARCH INITIATIVES | 65,283 | 65,283 | ..... |
| 4 | UNIVERSITY AND INDUSTRY RESEARCH CENTERS | 92,115 | 127,865 | + 35,750 |
| | TOTAL, BASIC RESEARCH | 445,895 | 582,645 | + 136,750 |
| | APPLIED RESEARCH | | | |
| 5 | MATERIALS TECHNOLOGY | 28,600 | 58,600 | + 30,000 |
| 6 | SENSORS AND ELECTRONIC SURVIVABILITY | 32,366 | 85,866 | + 53,500 |
| 7 | TRACTOR HIP | 8,674 | 8,674 | ..... |
| 8 | TRACTOR JACK | 400 | 400 | ..... |
| 9 | AVIATION TECHNOLOGY | 64,847 | 76,847 | + 12,000 |

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|--|----------------------|--------------------------|-----------------------------|
| 10 | ELECTRONIC WARFARE TECHNOLOGY | 25,571 | 25,571 | ..... |
| 11 | MISSILE TECHNOLOGY | 50,183 | 75,183 | + 25,000 |
| 12 | ADVANCED WEAPONS TECHNOLOGY | 29,502 | 34,502 | + 5,000 |
| 13 | ADVANCED CONCEPTS AND SIMULATION | 28,500 | 28,500 | ..... |
| 14 | COMBAT VEHICLE AND AUTOMOTIVE TECHNOLOGY | 70,450 | 95,450 | + 25,000 |
| 15 | BALLISTICS TECHNOLOGY | 75,541 | 75,541 | ..... |
| 16 | CHEMICAL, SMOKE AND EQUIPMENT DEFEATING TECHNOLOGY ... | 5,032 | 5,032 | ..... |
| 17 | JOINT SERVICE SMALL ARMS PROGRAM | 12,394 | 12,394 | ..... |
| 18 | WEAPONS AND MUNITIONS TECHNOLOGY | 40,444 | 65,944 | + 25,500 |
| 19 | ELECTRONICS AND ELECTRONIC DEVICES | 58,283 | 83,283 | + 25,000 |
| 20 | NIGHT VISION TECHNOLOGY | 29,582 | 29,582 | ..... |
| 21 | COUNTERMINE SYSTEMS | 21,244 | 27,244 | + 6,000 |
| 22 | HUMAN FACTORS ENGINEERING TECHNOLOGY | 24,131 | 26,631 | + 2,500 |
| 23 | ENVIRONMENTAL QUALITY TECHNOLOGY | 13,242 | 21,242 | + 8,000 |
| 24 | COMMAND, CONTROL, COMMUNICATIONS TECHNOLOGY | 55,003 | 55,003 | ..... |
| 25 | COMPUTER AND SOFTWARE TECHNOLOGY | 14,958 | 14,958 | ..... |
| 26 | MILITARY ENGINEERING TECHNOLOGY | 78,159 | 98,159 | + 20,000 |
| 27 | MANPOWER/PERSONNEL/TRAINING TECHNOLOGY | 21,862 | 21,862 | ..... |
| 28 | WARFIGHTER TECHNOLOGY | 40,566 | 49,566 | + 9,000 |
| 29 | MEDICAL TECHNOLOGY | 90,075 | 90,075 | ..... |
| | TOTAL, APPLIED RESEARCH | 919,609 | 1,166,109 | + 246,500 |
| | ADVANCED TECHNOLOGY DEVELOPMENT | | | |
| 30 | WARFIGHTER ADVANCED TECHNOLOGY | 39,338 | 39,338 | ..... |
| 31 | MEDICAL ADVANCED TECHNOLOGY | 62,496 | 70,496 | + 8,000 |
| 32 | AVIATION ADVANCED TECHNOLOGY | 124,958 | 133,958 | + 9,000 |
| 33 | WEAPONS AND MUNITIONS ADVANCED TECHNOLOGY | 102,686 | 244,503 | + 141,817 |
| 34 | COMBAT VEHICLE AND AUTOMOTIVE ADVANCED TECHNOLOGY ... | 119,739 | 166,239 | + 46,500 |
| 35 | SPACE APPLICATION ADVANCED TECHNOLOGY | 13,000 | 51,000 | + 38,000 |
| 36 | MANPOWER, PERSONNEL AND TRAINING ADVANCED TECHNOLOGY | 8,044 | 8,044 | ..... |
| 37 | TRACTOR HIKE | 22,631 | 22,631 | ..... |
| 38 | NEXT GENERATION TRAINING & SIMULATION SYSTEMS | 25,682 | 25,682 | ..... |
| 40 | COMBATING TERRORISM, TECHNOLOGY DEVELOPMENT | 3,762 | 36,762 | + 33,000 |
| 41 | TRACTOR NAIL | 4,896 | 4,896 | ..... |
| 42 | TRACTOR EGGS | 6,041 | 6,041 | ..... |
| 43 | ELECTRONIC WARFARE TECHNOLOGY | 31,491 | 41,491 | + 10,000 |
| 44 | MISSILE AND ROCKET ADVANCED TECHNOLOGY | 61,132 | 86,132 | + 25,000 |
| 45 | TRACTOR CAGE | 16,845 | 16,845 | ..... |
| 46 | HIGH PERFORMANCE COMPUTING MODERNIZATION PROGRAM ... | 183,322 | 218,322 | + 35,000 |
| 47 | LANDMINE WARFARE AND BARRIER ADVANCED TECHNOLOGY | 11,104 | 17,104 | + 6,000 |
| 48 | JOINT SERVICE SMALL ARMS PROGRAM | 5,885 | 22,805 | + 16,920 |
| 49 | NIGHT VISION ADVANCED TECHNOLOGY | 61,376 | 61,376 | ..... |
| 50 | ENVIRONMENTAL QUALITY TECHNOLOGY DEMONSTRATIONS | 9,136 | 29,136 | + 20,000 |
| 51 | MILITARY ENGINEERING ADVANCED TECHNOLOGY | 25,864 | 95,464 | + 69,600 |
| 52 | ADVANCED TACTICAL COMPUTER SCIENCE & SENSOR TECHNOLOGY | 34,883 | 43,883 | + 9,000 |
| 53 | COMMAND, CONTROL, COMMUNICATIONS ADVANCED TECHNOLOGY | 52,387 | 52,387 | ..... |
| | TOTAL, ADVANCED TECHNOLOGY DEVELOPMENT | 1,026,698 | 1,494,535 | + 467,837 |
| | DEMONSTRATION & VALIDATION | | | |
| 54 | ARMY MISSILE DEFENSE SYSTEMS INTEGRATION | 10,777 | 55,477 | + 44,700 |
| 56 | AIR AND MISSILE DEFENSE SYSTEMS ENGINEERING | 42,802 | 49,602 | + 6,800 |
| 57 | LANDMINE WARFARE AND BARRIER—ADV DEV | 45,254 | 45,254 | ..... |
| 58 | SMOKE, OBSCURANT AND TARGET DEFEATING SYS—ADV DEV | 22,700 | 22,700 | ..... |
| 59 | TANK AND MEDIUM CALIBER AMMUNITION | 41,974 | 41,974 | ..... |
| 60 | ARMORED SYSTEM MODERNIZATION—ADV DEV | 119,395 | 63,585 | — 55,810 |
| 61 | SOLDIER SUPPORT AND SURVIVABILITY | 8,746 | 8,746 | ..... |
| 62 | TACTICAL ELECTRONIC SURVEILLANCE SYSTEM—AD | 35,667 | 35,667 | ..... |
| 63 | NIGHT VISION SYSTEMS ADVANCED DEVELOPMENT | 7,350 | 7,350 | ..... |
| 64 | ENVIRONMENTAL QUALITY TECHNOLOGY | 14,749 | 14,749 | ..... |
| 65 | NATO RESEARCH AND DEVELOPMENT | 3,687 | 3,687 | ..... |

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|--|----------------------|--------------------------|-----------------------------|
| 66 | AVIATION—ADV DEV | 10,793 | 86,193 | + 75,400 |
| 67 | LOGISTICS AND ENGINEER EQUIPMENT—ADV DEV | 14,248 | 17,248 | + 3,000 |
| 68 | MEDICAL SYSTEMS—ADV DEV | 34,284 | 37,284 | + 3,000 |
| 69 | SOLDIER SYSTEMS—ADVANCED DEVELOPMENT | 18,044 | 18,044 | ..... |
| 70 | ROBOTICS DEVELOPMENT | 95,660 | 72,260 | – 23,400 |
| 71 | CROSS FUNCTIONAL TEAM (CFT) ADVANCED DEVELOPMENT | 38,000 | 25,000 | – 13,000 |
| 72 | ANALYSIS OF ALTERNATIVES | 9,765 | 9,765 | ..... |
| 73 | FUTURE TACTICAL UNMANNED AIRCRAFT SYSTEM (FUAS) | 12,393 | 12,393 | ..... |
| 74 | LOWER TIER AIR MISSILE DEFENSE (LTAMID) SENSOR | 120,374 | 87,874 | – 32,500 |
| 75 | TECHNOLOGY MATURATION INITIATIVES | 95,347 | 95,347 | ..... |
| 76 | MANEUVER—SHORT RANGE AIR DEFENSE (M–SHORAD) | 95,085 | 56,085 | – 39,000 |
| 77 | TRACTOR BEAM | 52,894 | 52,894 | ..... |
| | SYNTHETIC TRAINING ENVIRONMENT REFINEMENT AND | | | |
| 79 | PROTOTYPING | 77,939 | 77,939 | ..... |
| 80 | INDIRECT FIRE PROTECTION CAPABILITY INCREMENT 2—INTERC | 51,030 | 51,030 | ..... |
| 81 | CYBERSPACE OPERATIONS FORCES AND FORCE SUPPORT | 65,817 | 47,417 | – 18,400 |
| 82 | ASSURED POSITIONING, NAVIGATION AND TIMING (PNT) | 146,300 | 111,300 | – 35,000 |
| 83 | ARMY SPACE SYSTEMS INTEGRATION | 38,319 | 38,319 | ..... |
| | TOTAL, DEMONSTRATION & VALIDATION | 1,329,393 | 1,245,183 | – 84,210 |
| | ENGINEERING & MANUFACTURING DEVELOPMENT | | | |
| 84 | AIRCRAFT AVIONICS | 32,293 | 32,293 | ..... |
| 85 | ELECTRONIC WARFARE DEVELOPMENT | 78,699 | 58,699 | – 20,000 |
| 88 | TRACTOR CAGE | 17,050 | 17,050 | ..... |
| 89 | INFANTRY SUPPORT WEAPONS | 83,155 | 57,355 | – 25,800 |
| 90 | MEDIUM TACTICAL VEHICLES | 3,704 | 3,704 | ..... |
| 85 | JAVELIN | 10,623 | 5,623 | – 5,000 |
| 92 | FAMILY OF HEAVY TACTICAL VEHICLES | 11,950 | 11,950 | ..... |
| 93 | AIR TRAFFIC CONTROL | 12,347 | 12,347 | ..... |
| 95 | LIGHT TACTICAL WHEELED VEHICLES | 8,212 | 1,278 | – 6,934 |
| 96 | ARMORED SYSTEMS MODERNIZATION (ASM)—ENG DEV | 393,613 | 393,613 | ..... |
| 97 | NIGHT VISION SYSTEMS—SDD | 139,614 | 138,614 | – 1,000 |
| 98 | COMBAT FEEDING, CLOTHING, AND EQUIPMENT | 4,507 | 7,507 | + 3,000 |
| 99 | NON-SYSTEM TRAINING DEVICES—SDD | 49,436 | 44,436 | – 5,000 |
| 100 | AIR DEFENSE COMMAND, CONTROL AND INTELLIGENCE—SDD ... | 95,172 | 88,172 | – 7,000 |
| 101 | CONSTRUCTIVE SIMULATION SYSTEMS DEVELOPMENT | 22,628 | 22,628 | ..... |
| 102 | AUTOMATIC TEST EQUIPMENT DEVELOPMENT | 13,297 | 10,697 | – 2,600 |
| 103 | DISTRIBUTIVE INTERACTIVE SIMULATIONS (DIS)—SDD | 9,145 | 9,145 | ..... |
| 104 | BRILLIANT ANTI-ARMOR SUBMUNITION (BAT) | 9,894 | 6,894 | – 3,000 |
| 105 | COMBINED ARMS TACTICAL TRAINER (CATT) CORE | 21,964 | 21,964 | ..... |
| 106 | BRIGADE ANALYSIS, INTEGRATION AND EVALUATION | 49,288 | 49,288 | ..... |
| 107 | WEAPONS AND MUNITIONS—SDD | 183,100 | 184,959 | + 1,859 |
| 108 | LOGISTICS AND ENGINEER EQUIPMENT—SDD | 79,706 | 79,706 | ..... |
| 109 | COMMAND, CONTROL, COMMUNICATIONS SYSTEMS—SDD | 15,970 | 15,970 | ..... |
| 110 | MEDICAL MATERIEL/MEDICAL BIOLOGICAL DEFENSE EQUIPMENT | 44,542 | 44,542 | ..... |
| 111 | LANDMINE WARFARE/BARRIER—SDD | 50,817 | 45,117 | – 5,700 |
| 112 | ARMY TACTICAL COMMAND & CONTROL HARDWARE & SOFT- WARE | 178,693 | 163,693 | – 15,000 |
| 113 | RADAR DEVELOPMENT | 39,338 | 39,338 | ..... |
| 114 | GENERAL FUND ENTERPRISE BUSINESS SYSTEM [GFEB] | 37,851 | 37,851 | ..... |
| 115 | FIREFINDER | 45,473 | 45,473 | ..... |
| 116 | SOLDIER SYSTEMS—WARRIOR DEM/VAL | 10,395 | 10,395 | ..... |
| 117 | SUITE OF SURVIVABILITY ENHANCEMENT SYSTEMS -EMD | 69,204 | 52,904 | – 16,300 |
| 118 | ARTILLERY SYSTEMS | 1,781 | 1,781 | ..... |
| 119 | INFORMATION TECHNOLOGY DEVELOPMENT | 113,758 | 80,376 | – 33,382 |
| 120 | INTEGRATED PERSONNEL AND PAY SYSTEM—ARMY (IPPS—A) | 166,603 | 155,103 | – 11,500 |
| 121 | ARMORED MULTI-PURPOSE VEHICLE | 118,239 | 118,239 | ..... |
| | INTEGRATED GROUND SECURITY SURVEILLANCE RESPONSE | | | |
| 122 | CAPABILITY (IGSSR—C) | 3,211 | 3,211 | ..... |
| 123 | JOINT TACTICAL NETWORK CENTER (JTNC) | 15,889 | 15,889 | ..... |
| 124 | JOINT TACTICAL NETWORK (JTN) | 41,972 | 41,972 | ..... |
| 125 | TRACTOR TIRE | 41,166 | 41,166 | ..... |

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|--|----------------------|--------------------------|-----------------------------|
| 126 | GROUND-BASED OPERATIONAL SURVEILLANCE SYSTEM— | | | |
| | EXPEDITIONARY (GBOSS-E) | 5,175 | 5,175 | ..... |
| 127 | TACTICAL SECURITY SYSTEM (TSS) | 4,496 | 4,496 | ..... |
| 128 | COMMON INFRARED COUNTERMEASURES (CIRCM) | 51,178 | 25,178 | - 26,000 |
| 129 | COMBATING WEAPONS OF MASS DESTRUCTION (CWMD) | 11,311 | 11,311 | ..... |
| 131 | NUCLEAR BIOLOGICAL CHEMICAL RECONNAISSANCE VEHICLE ... | 17,154 | 13,054 | - 4,100 |
| 132 | DEFENSIVE CYBER TOOL DEVELOPMENT | 36,626 | 30,126 | - 6,500 |
| 133 | TACTICAL NETWORK RADIO SYSTEMS (LOW-TIER) | 3,829 | 3,829 | ..... |
| 134 | CONTRACT WRITING SYSTEM | 41,928 | 41,928 | ..... |
| 135 | MISSILE WARNING SYSTEM MODERNIZATION (MWSM) | 28,276 | 6,276 | - 22,000 |
| 136 | AIRCRAFT SURVIVABILITY DEVELOPMENT | 21,965 | 21,965 | ..... |
| 137 | INDIRECT FIRE PROTECTION CAPABILITY INC 2—BLOCK 1 | 157,710 | 145,710 | - 12,000 |
| 138 | GROUND ROBOTICS | 86,167 | 61,549 | - 24,618 |
| 139 | EMERGING TECHNOLOGY INITIATIVES | 42,866 | 68,266 | + 25,400 |
| 140 | AMF JOINT TACTICAL RADIO SYSSTEM | 15,984 | 15,984 | ..... |
| 141 | JOINT AIR-TO-GROUND MISSILE (JAGM) | 11,773 | 11,773 | ..... |
| 142 | ARMY INTEGRATED AIR AND MISSILE DEFENSE (AIAMD) | 277,607 | 322,607 | + 45,000 |
| 143 | NATIONAL CAPABILITIES INTEGRATION | 12,340 | 12,340 | ..... |
| 144 | JOINT LIGHT TACTICAL VEHICLE ENG AND MANUFACTURING | 2,686 | ..... | - 2,686 |
| 145 | AVIATION GROUND SUPPORT EQUIPMENT | 2,706 | 7,706 | + 5,000 |
| 147 | TROJAN—RH12 | 4,521 | 4,521 | ..... |
| 150 | ELECTRONIC WARFARE DEVELOPMENT | 8,922 | 8,922 | ..... |
| 151 | TRACTOR BEARS | 23,170 | 23,170 | ..... |
| | TOTAL, ENGINEERING & MANUFACTURING DEVELOPMENT | 3,192,689 | 3,016,828 | - 175,861 |
| | RDT&E MANAGEMENT SUPPORT | | | |
| 152 | THREAT SIMULATOR DEVELOPMENT | 12,835 | 28,835 | + 16,000 |
| 153 | TARGET SYSTEMS DEVELOPMENT | 12,135 | 32,135 | + 20,000 |
| 154 | MAJOR T&E INVESTMENT | 82,996 | 182,996 | + 100,000 |
| 155 | RAND ARROYO CENTER | 19,821 | 19,821 | ..... |
| 156 | ARMY KWAJALEIN ATOLL | 246,574 | 246,574 | ..... |
| 157 | CONCEPTS EXPERIMENTATION PROGRAM | 30,430 | 30,430 | ..... |
| 159 | ARMY TEST RANGES AND FACILITIES | 305,759 | 430,759 | + 125,000 |
| 160 | ARMY TECHNICAL TEST INSTRUMENTATION AND TARGETS | 62,379 | 84,879 | + 22,500 |
| 161 | SURVIVABILITY/LETHALITY ANALYSIS | 40,496 | 40,496 | ..... |
| 162 | AIRCRAFT CERTIFICATION | 3,941 | 3,941 | ..... |
| 163 | METEOROLOGICAL SUPPORT TO RDT&E ACTIVITIES | 9,767 | 9,767 | ..... |
| 164 | MATERIEL SYSTEMS ANALYSIS | 21,226 | 21,226 | ..... |
| 165 | EXPLOITATION OF FOREIGN ITEMS | 13,026 | 13,026 | ..... |
| 166 | SUPPORT OF OPERATIONAL TESTING | 52,718 | 52,718 | ..... |
| 167 | ARMY EVALUATION CENTER | 57,049 | 57,049 | ..... |
| 168 | ARMY MODELING AND SIMULATION X-CMD COLLABORATION AND INTEG | 2,801 | 2,801 | ..... |
| 169 | PROGRAMWIDE ACTIVITIES | 60,942 | 60,942 | ..... |
| 170 | TECHNICAL INFORMATION ACTIVITIES | 29,050 | 29,050 | ..... |
| 171 | MUNITIONS STANDARDIZATION, EFFECTIVENESS AND SAFETY | 42,332 | 56,332 | + 14,000 |
| 172 | ENVIRONMENTAL QUALITY TECHNOLOGY MGMT SUPPORT | 3,216 | 3,216 | ..... |
| 173 | MANAGEMENT HEADQUARTERS (RESEARCH AND DEVELOPMENT) | 54,145 | 54,145 | ..... |
| 174 | MILITARY GROUND-BASED CREW TECHNOLOGY | 4,896 | 4,896 | ..... |
| 175 | RONALD REAGAN BALLISTIC MISSILE DEFENSE TEST SITE | 63,011 | 63,011 | ..... |
| 176 | COUNTERINTEL AND HUMAN INTEL MODERNIZATION | 2,636 | 2,636 | ..... |
| 177 | ASSESSMENTS AND EVALUATIONS CYBER VULNERABILITIES | 88,300 | 88,300 | ..... |
| | TOTAL, RDT&E MANAGEMENT SUPPORT | 1,322,481 | 1,619,981 | + 297,500 |
| | OPERATIONAL SYSTEMS DEVELOPMENT | | | |
| 181 | MLRS PRODUCT IMPROVEMENT PROGRAM | 8,886 | 6,886 | - 2,000 |
| 182 | TRACTOR PULL | 4,067 | 4,067 | ..... |
| 183 | ANTI-TAMPER TECHNOLOGY SUPPORT | 4,254 | 4,254 | ..... |
| 184 | WEAPONS AND MUNITIONS PRODUCT IMPROVEMENT PROGRAMS | 16,022 | 16,022 | ..... |
| 185 | TRACTOR SMOKE | 4,577 | 4,577 | ..... |
| 186 | LONG RANGE PRECISION FIRES (LRPF) | 186,475 | 159,475 | - 27,000 |
| 187 | APACHE PRODUCT IMPROVEMENT PROGRAM | 31,049 | 24,049 | - 7,000 |

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|--|----------------------|--------------------------|-----------------------------|
| 188 | BLACKHAWK RECAP/MODERNIZATION | 35,240 | 35,240 | ..... |
| 189 | CHINOOK HELICOPTER PRODUCT IMPROVEMENT PROGRAM | 157,822 | 153,822 | - 4,000 |
| 190 | FIXED WING AIRCRAFT | 4,189 | 4,189 | ..... |
| 191 | IMPROVED TURBINE ENGINE PROGRAM | 192,637 | 189,137 | - 3,500 |
| 194 | AVIATION ROCKET SYSTEM PRODUCT IMPROVEMENT AND DEVELOPMENT | 60,860 | 41,860 | - 19,000 |
| 195 | UNMANNED AIRCRAFT SYSTEM UNIVERSAL PRODUCTS | 52,019 | 38,519 | - 13,500 |
| 196 | FAMILY OF BIOMETRICS | 2,400 | 2,400 | ..... |
| 197 | PATRIOT PRODUCT IMPROVEMENT | 65,369 | 75,369 | + 10,000 |
| 198 | AEROSTAT JOINT PROJECT OFFICE | 1 | ..... | - 1 |
| 199 | JOINT AUTOMATED DEEP OPERATION COORDINATION SYSTEM | 30,954 | 30,954 | ..... |
| 200 | COMBAT VEHICLE IMPROVEMENT PROGRAMS | 411,927 | 336,427 | - 75,500 |
| 202 | 155MM SELF-PROPELLED HOWITZER IMPROVEMENTS | 40,676 | 30,676 | - 10,000 |
| 203 | AIRCRAFT MODIFICATIONS/PRODUCT IMPROVEMENT PROGRAMS | 17,706 | 17,706 | ..... |
| 204 | AIRCRAFT ENGINE COMPONENT IMPROVEMENT PROGRAM | 146 | 146 | ..... |
| 205 | DIGITIZATION | 6,316 | 6,316 | ..... |
| 206 | MISSILE/AIR DEFENSE PRODUCT IMPROVEMENT PROGRAM | 1,643 | 1,643 | ..... |
| 207 | OTHER MISSILE PRODUCT IMPROVEMENT PROGRAMS | 4,947 | 4,947 | ..... |
| 208 | TRACTOR CARD | 34,050 | 34,050 | ..... |
| 210 | MATERIALS HANDLING EQUIPMENT | 1,464 | 1,464 | ..... |
| 211 | ENVIRONMENTAL QUALITY TECHNOLOGY—OPERATIONAL SYSTEM | 249 | 249 | ..... |
| 212 | LOWER TIER AIR AND MISSILE DEFENSE (AMD) SYSTEM | 79,283 | 78,798 | - 485 |
| 213 | GUIDED MULTIPLE-LAUNCH ROCKET SYSTEM (GMLRS) | 154,102 | 89,102 | - 65,000 |
| 216 | SECURITY AND INTELLIGENCE ACTIVITIES | 12,280 | 12,280 | ..... |
| 217 | INFORMATION SYSTEMS SECURITY PROGRAM | 68,533 | 46,017 | - 22,516 |
| 218 | GLOBAL COMBAT SUPPORT SYSTEM | 68,619 | 48,884 | - 19,735 |
| 220 | WWMCCS/GLOBAL COMMAND AND CONTROL SYSTEM | 2,034 | 2,034 | ..... |
| 223 | COMBINED ADVANCED APPLICATIONS | 1,500 | 1,500 | ..... |
| 224 | INTEGRATED BROADCAST SERVICE (IBS) | 450 | 450 | ..... |
| 225 | TACTICAL UNMANNED AERIAL VEHICLES | 6,000 | 6,000 | ..... |
| 226 | AIRBORNE RECONNAISSANCE SYSTEMS | 12,416 | 12,416 | ..... |
| 227 | DISTRIBUTED COMMON GROUND/SURFACE SYSTEMS | 38,667 | 27,667 | - 11,000 |
| 229 | RQ-11 UAV | 6,180 | 6,180 | ..... |
| 230 | RQ-7 UAV | 12,863 | 12,863 | ..... |
| 231 | BIOMETRICS ENABLED INTELLIGENCE | 4,310 | 4,310 | ..... |
| 233 | END ITEM INDUSTRIAL PREPAREDNESS ACTIVITIES | 53,958 | 88,758 | + 34,800 |
| 234 | SATCOM GROUND ENVIRONMENT (SPACE) | 12,119 | 12,119 | ..... |
| 235 | JOINT TACTICAL GROUND SYSTEM | 7,400 | 7,400 | ..... |
| | TOTAL, OPERATIONAL SYSTEMS DEVELOPMENT | 1,916,659 | 1,681,222 | - 235,437 |
| 9999 | CLASSIFIED PROGRAMS | 5,955 | 5,955 | ..... |
| | TOTAL, RESEARCH, DEVELOPMENT, TEST & EVAL, ARMY | 10,159,379 | 10,812,458 | + 653,079 |

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|---|----------------------|--------------------------|-----------------------------|
| 2 | Defense Research Sciences | 276,912 | 377,912 | + 101,000 |
| | Basic research program increase ..... | ..... | ..... | + 100,000 |
| | Program increase: UAV fuel systems enhancements .. | ..... | ..... | + 1,000 |
| 4 | University and Industry Research Centers | 92,115 | 127,865 | + 35,750 |
| | Basic research program increase ..... | ..... | ..... | + 25,000 |
| | Program increase: Materials in extreme dynamic environments ..... | ..... | ..... | + 8,750 |
| | Program increase: University assisted hypervelocity testing ..... | ..... | ..... | + 2,000 |
| 5 | Materials Technology | 28,600 | 58,600 | + 30,000 |

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|---|----------------------|--------------------------|-----------------------------|
| | Program increase: Advanced polymers | | | + 5,000 |
| | Program increase: Highly durable advanced polymers for lightweight armor | | | + 5,000 |
| | Program increase: Materials research for affordability, performance, and environmental sustainability | | | + 10,000 |
| | Program increase: Advanced materials processing | | | + 10,000 |
| 6 | Sensors and Electronic Survivability | 32,366 | 85,866 | + 53,500 |
| | Program increase | | | + 5,000 |
| | Program increase: Advanced space data exploitation and integration program | | | + 9,500 |
| | Program increase: Agile manufacturing materials processing | | | + 15,000 |
| | Program increase: Open campus initiative | | | + 4,000 |
| | Program increase: Small satellite technology development | | | + 20,000 |
| 9 | Aviation Technology | 64,847 | 76,847 | + 12,000 |
| | Program increase: Adaptive flight controls | | | + 7,000 |
| | Program increase: Aviation and missile technology transfer and innovation | | | + 5,000 |
| 11 | Missile Technology | 50,183 | 75,183 | + 25,000 |
| | Program increase: Air vehicle development and sustainment | | | + 15,000 |
| | Program increase: Enterprise science and technology prototyping | | | + 10,000 |
| 12 | Advanced Weapons Technology | 29,502 | 34,502 | + 5,000 |
| | Program increase: COE in high-energy laser and optical technology | | | + 5,000 |
| 14 | Combat Vehicle and Automotive Technology | 70,450 | 95,450 | + 25,000 |
| | Program increase: Advanced materials development for survivability | | | + 15,000 |
| | Program increase: Highly electrified vehicles and infrastructure connectivity | | | + 4,000 |
| | Program increase: Structural thermoplastics for vehicles | | | + 6,000 |
| 18 | Weapons and Munitions Technology | 40,444 | 65,944 | + 25,500 |
| | Program increase: Advanced warheads technology | | | + 2,500 |
| | Program increase: Medium caliber lightweight composite barrels | | | + 10,000 |
| | Program increase: Novel printed armaments components | | | + 13,000 |
| 19 | Electronics and Electronic Devices | 58,283 | 83,283 | + 25,000 |
| | Program increase: Silicon carbide research | | | + 20,000 |
| | Program increase: Tactical power generation and storage systems | | | + 5,000 |
| 21 | Countermeasures Systems | 21,244 | 27,244 | + 6,000 |
| | Program increase: Developing and improving counter-IED sensors | | | + 3,000 |
| | Program increase: Development of soil parameters | | | + 3,000 |
| 22 | Human Factors Engineering Technology | 24,131 | 26,631 | + 2,500 |
| | Program increase | | | + 2,500 |
| 23 | Environmental Quality Technology | 13,242 | 21,242 | + 8,000 |
| | Program increase: Mobile environmental containment sensors | | | + 8,000 |
| 26 | Military Engineering Technology | 78,159 | 98,159 | + 20,000 |
| | Program increase: Cellulose nanocomposites research | | | + 15,000 |
| | Program increase: Innovative construction materials for cold regions | | | + 4,000 |
| | Program increase: Vehicle-born IED screening | | | + 1,000 |
| 28 | Warfighter Technology | 40,566 | 49,566 | + 9,000 |
| | Program increase: Expeditionary mobile base camp technology | | | + 9,000 |
| 31 | Medical Advanced Technology | 62,496 | 70,496 | + 8,000 |

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|--|----------------------|--------------------------|-----------------------------|
| | Program increase: Peer-reviewed military burn research program | | | + 8,000 |
| 32 | Aviation Advanced Technology | 124,958 | 133,958 | + 9,000 |
| | Program increase: Stretch broken composite material forms | | | + 4,000 |
| | Program increase: Surface tolerant adhesives | | | + 5,000 |
| 33 | Weapons and Munitions Advanced Technology | 102,686 | 244,503 | + 141,817 |
| | Program increase: Accelerate ERCA gun | | | + 20,000 |
| | Program increase: High energy laser | | | + 20,000 |
| | Program increase: Long range precision fires | | | + 101,817 |
| 34 | Combat Vehicle and Automotive Advanced Technology | 119,739 | 166,239 | + 46,500 |
| | Program increase: Airless tire technology demonstration | | | + 4,000 |
| | Program increase: HMMWV automotive enhancements | | | + 10,000 |
| | Program increase: HMMWV autonomy | | | + 3,000 |
| | Program increase: HMMWV power system | | | + 2,000 |
| | Program increase: HMMWV torque monitoring | | | + 3,000 |
| | Program increase: Modular scalable powertrain | | | + 2,500 |
| | Program increase: Next gen combat vehicle | | | + 7,000 |
| | Program increase: Combat vehicle weight reduction initiative | | | + 10,000 |
| | Program increase: Multi-sensor augmented reality system for tactical land vehicles | | | + 5,000 |
| 35 | Space Application Advanced Technology | 13,000 | 51,000 | + 38,000 |
| | Program increase: Network | | | + 2,000 |
| | Program increase: Assured positioning, navigation, and timing for space and missile defense assets | | | + 6,000 |
| | Program increase: Global communications research .. | | | + 10,000 |
| | Program increase: Tactical small launch | | | + 20,000 |
| 40 | Combating Terrorism—Technology Development | 3,762 | 36,762 | + 33,000 |
| | Program increase: Artificial intelligence enabled sensor networks | | | + 8,000 |
| | Program increase: Enhanced propulsion systems for UAS | | | + 6,000 |
| | Program increase: Lightweight, low power radar systems | | | + 8,000 |
| | Program increase: Long endurance UAV research | | | + 8,000 |
| | Program increase: Open source ISR research | | | + 3,000 |
| 43 | Electronic Warfare Technology | 31,491 | 41,491 | + 10,000 |
| | Program increase: Tactical cyber-electronic warfare readiness initiative | | | + 10,000 |
| 44 | Missile and Rocket Advanced Technology | 61,132 | 86,132 | + 25,000 |
| | Program increase: Cyber security | | | + 15,000 |
| | Program increase: Tactically mobile, shoot-on-the-move SHORAD demonstration | | | + 10,000 |
| 46 | High Performance Computing Modernization Program | 183,322 | 218,322 | + 35,000 |
| | Program increase | | | + 35,000 |
| 47 | Landmine Warfare and Barrier Advanced Technology | 11,104 | 17,104 | + 6,000 |
| | Program increase: Multi-sensor drone swarms for explosive hazard detection | | | + 6,000 |
| 48 | Joint Service Small Arms Program | 5,885 | 22,805 | + 16,920 |
| | Program increase: Soldier lethality | | | + 16,920 |
| 50 | Environmental Quality Technology Demonstrations | 9,136 | 29,136 | + 20,000 |
| | Program increase: Autonomous transport innovation | | | + 5,000 |
| | Program increase: Environmental sensors for explosives | | | + 2,000 |
| | Program increase: Rapid safe advanced carbon nanotechnology materials | | | + 8,000 |
| | Program increase: Smart bases | | | + 5,000 |
| 51 | Military Engineering Advanced Technology | 25,864 | 95,464 | + 69,600 |
| | Program increase: Additive manufacturing/3-D printing | | | + 2,000 |
| | Program increase: Advanced polymer development .. | | | + 20,000 |

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|---|----------------------|--------------------------|-----------------------------|
| | Program increase: Bathymetric-topographic LiDAR research | | | + 8,200 |
| | Program increase: Centrifuge enabled research | | | + 2,500 |
| | Program increase: Energy technology research in cold and arctic regions | | | + 4,000 |
| | Program increase: ERDC collaboration | | | + 2,000 |
| | Program increase: Extreme terrain research | | | + 4,000 |
| | Program Increase: Natural gas technology | | | + 4,000 |
| | Program increase: Reliable distributed energy in austere environments | | | + 3,000 |
| | Program Increase: Research facility modernization ... | | | + 2,000 |
| | Program increase: Research in the permafrost environment | | | + 4,000 |
| | Program increase: Resilient energy systems | | | + 1,000 |
| | Program increase: Secure and resilient power generation in cold region environments | | | + 5,000 |
| | Program Increase: Silicon anode technology | | | + 4,000 |
| | Program increase: Transportation infrastructure evaluation system | | | + 3,900 |
| 52 | Advanced Tactical Computer Science and Sensor Technology | 34,883 | 43,883 | + 9,000 |
| | Program increase: Assured position, navigation, and timing | | | + 9,000 |
| 54 | Army Missile Defense Systems Integration | 10,777 | 55,477 | + 44,700 |
| | Program increase: Counter-UAS mission capabilities | | | + 8,700 |
| | Program increase: Electromagnetic attack and protect | | | + 10,000 |
| | Program increase: Inertial measurement unit hardware-in-the-loop | | | + 11,000 |
| | Program increase: Integrated environmental control and power | | | + 15,000 |
| 56 | Air and Missile Defense Systems Engineering | 42,802 | 49,602 | + 6,800 |
| | Program increase: Interoperability of integrated air and missile defense | | | + 20,000 |
| | Restoring acquisition accountability: ALPS lack of directed requirement | | | - 13,200 |
| 60 | Armored System Modernization—Adv Dev | 119,395 | 63,585 | - 55,810 |
| | Program increase: Armored advanced fuel cell prototypes | | | + 5,000 |
| | Restoring acquisition accountability: MFV prototyping acceleration ahead of need | | | - 60,810 |
| 66 | Aviation—Adv Dev | 10,793 | 86,193 | + 75,400 |
| | Program increase: Future vertical lift | | | + 75,400 |
| 67 | Logistics and Engineer Equipment—Adv Dev | 14,248 | 17,248 | + 3,000 |
| | Program increase: Tactical electric program research for remote and forward operating bases | | | + 3,000 |
| 68 | Medical Systems—Adv Dev | 34,284 | 37,284 | + 3,000 |
| | Program increase: Transport telemedicine program ... | | | + 3,000 |
| 70 | Robotics Development | 95,660 | 72,260 | - 23,400 |
| | Restoring acquisition accountability: RCV Phase 2 funding ahead of need | | | - 23,400 |
| 71 | Cross Functional Team (CFT) Advanced Development & Prototyping | 38,000 | 25,000 | - 13,000 |
| | Program increase: Early long range precision fires hypersonic capability | | | + 25,000 |
| | Restoring acquisition accountability: Lack of strategy | | | - 38,000 |
| 74 | Lower Tier Air Missile Defense (LTAMD) Sensor | 120,374 | 87,874 | - 32,500 |
| | Restoring acquisition accountability: TMRR contract excess funding | | | - 24,000 |
| | Restoring acquisition accountability: Test funding ahead of need | | | - 8,500 |
| 76 | Maneuver—Short Range Air Defense (M-SHORAD) | 95,085 | 56,085 | - 39,000 |
| | Restoring acquisition accountability: Program growth ahead of acquisition strategy | | | - 39,000 |

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|--|----------------------|--------------------------|-----------------------------|
| 81 | Cyberspace Operations Forces and Force Support | 65,817 | 47,417 | -18,400 |
| | Restoring acquisition accountability: Funding ahead of requirements finalization | | | -5,400 |
| | Reduce duplication: CORA-P funded in line 177 | | | -13,000 |
| 82 | Assured Positioning, Navigation and Timing (PNT) | 146,300 | 111,300 | -35,000 |
| | Improving funds management: Prior year carryover due to program delay | | | -35,000 |
| 85 | Electronic Warfare Development | 78,699 | 58,699 | -20,000 |
| | Restoring acquisition accountability: Funding excess to need | | | -20,000 |
| 89 | Infantry Support Weapons | 83,155 | 57,355 | -25,800 |
| | Program increase: Soldier enhancement program | | | +6,200 |
| | Restoring acquisition accountability: NGSAR EMD funding ahead of need | | | -22,000 |
| | Restoring acquisition accountability: Small arms fire control funding ahead of requirement | | | -10,000 |
| 91 | JAVELIN | 10,623 | 5,623 | -5,000 |
| | Restoring acquisition accountability: Lightweight CLU development delay | | | -5,000 |
| 95 | Light Tactical Wheeled Vehicles | 8,212 | 1,278 | -6,934 |
| | Restoring acquisition accountability: Excess GMV test funding | | | -2,705 |
| | Restoring acquisition accountability: JLTV-RV test funding ahead of need | | | -4,229 |
| 97 | Night Vision Systems—Eng Dev | 139,614 | 138,614 | -1,000 |
| | Restoring acquisition accountability: ENVG-B follow-on test funding ahead of need | | | -1,000 |
| 98 | Combat Feeding, Clothing, and Equipment | 4,507 | 7,507 | +3,000 |
| | Program increase: Modular glove system | | | +3,000 |
| 99 | Non-System Training Devices—Eng Dev | 49,436 | 44,436 | -5,000 |
| | Insufficient budget justification: Unjustified request | | | -5,000 |
| 100 | Air Defense Command, Control and Intelligence—Eng Dev | 95,172 | 88,172 | -7,000 |
| | Program increase: All digital radar | | | +8,000 |
| | Improving funds management: Prior year carryover | | | -15,000 |
| 102 | Automatic Test Equipment Development | 13,297 | 10,697 | -2,600 |
| | Improving funds management: Prior year carryover | | | -2,600 |
| 104 | Brilliant Anti-Armor Submunition (BAT) | 9,894 | 6,894 | -3,000 |
| | Improving funds management: Prior year carryover | | | -3,000 |
| 107 | Weapons and Munitions—Eng Dev | 183,100 | 184,959 | +1,859 |
| | Program increase: Test and evaluation of M999 155mm | | | +12,000 |
| | Restoring acquisition accountability: NGSW ammo EMD funding ahead of need | | | -4,250 |
| | Improving funds management: AMP fuze risk reduction excess to need | | | -5,891 |
| 111 | Landmine Warfare/Barrier—Eng Dev | 50,817 | 45,117 | -5,700 |
| | Improving funds management: Prior year carryover | | | -5,700 |
| 112 | Army Tactical Command & Control Hardware & Software | 178,693 | 163,693 | -15,000 |
| | Restoring acquisition accountability: TNOM funding ahead of need | | | -5,000 |
| | Restoring acquisition accountability: CPI2 program delay | | | -10,000 |
| 117 | Suite of Survivability Enhancement Systems—EMD | 69,204 | 52,904 | -16,300 |
| | Restoring acquisition accountability: Army revised Stryker test requirement | | | -16,300 |
| 119 | Information Technology Development | 113,758 | 80,376 | -33,382 |
| | Insufficient budget justification: AcqBiz unjustified request | | | -14,382 |
| | Improving funds management: Prior year carryover | | | -19,000 |
| 120 | Integrated Personnel and Pay System—Army (IPPS-A) | 166,603 | 155,103 | -11,500 |
| | Restoring acquisition accountability: Excess funding due to test delays | | | -10,000 |
| | Restoring acquisition accountability: Program management growth | | | -1,500 |

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|---|----------------------|--------------------------|-----------------------------|
| 128 | Common Infrared Countermeasures (CIRCM) | 51,178 | 25,178 | -26,000 |
| | Improving funds management: Prior year carryover due to program delay | | | -26,000 |
| 131 | Nuclear Biological Chemical Reconnaissance Vehicle (NBCRV) Sensor Suite | 17,154 | 13,054 | -4,100 |
| | Improving funds management: Excess test funding due to program delay | | | -4,100 |
| 132 | Defensive CYBER Tool Development | 36,626 | 30,126 | -6,500 |
| | Improving funds management: Prior year carryover ... | | | -6,500 |
| 135 | Missile Warning System Modernization (MWSM) | 28,276 | 6,276 | -22,000 |
| | Restoring acquisition accountability: Funding early to need | | | -22,000 |
| 137 | Indirect Fire Protection Capability Inc 2—Block 1 | 157,710 | 145,710 | -12,000 |
| | Insufficient budget justification: Unjustified request | | | -12,000 |
| 138 | Ground Robotics | 86,167 | 61,549 | -24,618 |
| | Transfer ground robotics MTRS standardization: Army-requested to OPA line 133 | | | -4,618 |
| | Restoring acquisition accountability: CRS-I contract delay | | | -12,000 |
| | Improving funds management: SMET contract delay | | | -8,000 |
| 139 | Emerging Technology Initiatives | 42,866 | 68,266 | +25,400 |
| | Program increase: ISR quick reaction capability | | | +25,400 |
| 142 | Army Integrated Air and Missile Defense (AIAMD) | 277,607 | 322,607 | +45,000 |
| | Program increase: Accelerated integration to counter emerging threats | | | +30,000 |
| | Program increase: Cyber security research | | | +15,000 |
| 144 | Joint Light Tactical Vehicle (JLTV) ED | 2,686 | | -2,686 |
| | Restoring acquisition accountability: Funds excess to need | | | -2,686 |
| 145 | Aviation Ground Support Equipment | 2,706 | 7,706 | +5,000 |
| | Program increase: Next generation health monitoring system | | | +5,000 |
| 152 | Threat Simulator Development | 12,835 | 28,835 | +16,000 |
| | Program increase: Integrated threat force cyber threat simulators | | | +6,000 |
| | Program increase: Threat cyberspace operations | | | +10,000 |
| 153 | Target Systems Development | 12,135 | 32,135 | +20,000 |
| | Program increase: Cyber virtualization center | | | +20,000 |
| 154 | Major T&E Investment | 82,996 | 182,996 | +100,000 |
| | Program increase | | | +100,000 |
| 159 | Army Test Ranges and Facilities | 305,759 | 430,759 | +125,000 |
| | Program increase | | | +100,000 |
| | Program increase: Distributed environment for system-of-system cyber security testing | | | +10,000 |
| | Program increase: Directed energy workloads management | | | +15,000 |
| 160 | Army Technical Test Instrumentation and Targets | 62,379 | 84,879 | +22,500 |
| | Program increase: Cyber security of space and missile defense assets | | | +22,500 |
| 171 | Munitions Standardization, Effectiveness and Safety | 42,332 | 56,332 | +14,000 |
| | Program increase: Life cycle pilot process | | | +10,000 |
| | Program increase: Polymer cased small arms ammunition | | | +4,000 |
| 181 | MLRS Product Improvement Program | 8,886 | 6,886 | -2,000 |
| | Improving funds management: Prior year carryover ... | | | -2,000 |
| 186 | Long Range Precision Fires (LRPF) | 186,475 | 159,475 | -27,000 |
| | Improving funds management: TMRR excess growth | | | -25,000 |
| | Restoring acquisition accountability: Program management excess growth | | | -2,000 |
| 187 | Apache Product Improvement Program | 31,049 | 24,049 | -7,000 |
| | Restoring acquisition accountability: Product development previously funded | | | -6,000 |
| | Restoring acquisition accountability: Testing previously funded | | | -1,000 |

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|--|----------------------|--------------------------|-----------------------------|
| 189 | Chinook Product Improvement Program | 157,822 | 153,822 | - 4,000 |
| | Restoring acquisition accountability: Program management excess | | | - 4,000 |
| 191 | Improved Turbine Engine Program | 192,637 | 189,137 | - 3,500 |
| | Restoring acquisition accountability: Test funding ahead of need | | | - 3,500 |
| 194 | Aviation Rocket System Product Improvement and Development | 60,860 | 41,860 | - 19,000 |
| | Improving funds management: Lightweight precision munition lack of strategy | | | - 19,000 |
| 195 | Unmanned Aircraft System Universal Products | 52,019 | 38,519 | - 13,500 |
| | Improving funds management: Prior year carryover due to program delay | | | - 13,500 |
| 197 | Patriot Product Improvement | 65,369 | 75,369 | + 10,000 |
| | Program increase | | | + 10,000 |
| 198 | Aerostat Joint Project—COCOM Exercise | 1 | | - 1 |
| | Program termination | | | - 1 |
| 200 | Combat Vehicle Improvement Programs | 411,927 | 336,427 | - 75,500 |
| | Program increase: Advanced Abrams thermal management system and integration | | | + 16,000 |
| | Program increase: Certification of wireless intercom capabilities | | | + 5,000 |
| | Program increase: Improved recovery vehicle (M88A2 Hercules) | | | + 18,000 |
| | Program increase: Stryker power system | | | + 3,000 |
| | Improving funds management: Hercules prior year carryover | | | - 6,000 |
| | Improving funds management: Abrams ECP V3 excess funding due to test delay | | | - 5,000 |
| | Restoring acquisition accountability: Abrams ECP V4 excess growth | | | - 10,000 |
| | Restoring acquisition accountability: Bradley ECP A5 excess | | | - 80,000 |
| | Restoring acquisition accountability: Stryker 30mm ECP delay | | | - 16,500 |
| 202 | 155mm Self-Propelled Howitzer Improvements | 40,676 | 30,676 | - 10,000 |
| | Improving funds management: Prior year carryover | | | - 10,000 |
| 212 | Lower Tier Air and Missile Defense [AMD] System | 79,283 | 78,798 | - 485 |
| | Insufficient budget justification: Unjustified request | | | - 485 |
| 213 | Guided Multiple-Launch Rocket System [GMLRS] | 154,102 | 89,102 | - 65,000 |
| | Restoring acquisition accountability: Extended range development contract delay | | | - 50,000 |
| | Improving funds management: Test funding ahead of need | | | - 15,000 |
| 217 | Information Systems Security Program | 68,533 | 46,017 | - 22,516 |
| | Program increase: Cyber security operations center | | | + 18,500 |
| | Restoring acquisition accountability: Program delay | | | - 41,016 |
| 218 | Global Combat Support System | 68,619 | 48,884 | - 19,735 |
| | Restoring acquisition accountability: Business intelligence/Business warehouse funding ahead of need | | | - 8,584 |
| | Restoring acquisition accountability: Army pre-positioned stock funding ahead of need | | | - 11,151 |
| 227 | Distributed Common Ground/Surface Systems | 38,667 | 27,667 | - 11,000 |
| | Restoring acquisition accountability: CD2 funding excess to need | | | - 5,000 |
| | Improving funds management: Test funding excess to need | | | - 5,000 |
| | Restoring acquisition accountability: CD3 funding ahead of need | | | - 1,000 |
| 233 | End Item Industrial Preparedness Activities | 53,958 | 88,758 | + 34,800 |
| | Program increase: Engineering data synchronization software pilot program | | | + 9,800 |

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|--|----------------------|--------------------------|-----------------------------|
| | Program increase: Nanoscale and microscale materials ..... | ..... | ..... | + 20,000 |
| | Program increase: Power take off hybridization ..... | ..... | ..... | + 5,000 |

Soldier Fitness Program and Suicide Prevention Program.—The fiscal year 2019 budget request includes \$5,639,000 for the Soldier Fitness Program and Suicide Prevention Program. While the Committee is fully supportive of these programs, it is dismayed that, for the second year in a row, the budget justification materials for them lacked sufficient detail and substance. The Committee directs the Army to provide full justification for these programs with the fiscal year 2020 budget submission.

Manufacturing Technologies for Unmanned Aerial Systems [UAS].—The Committee encourages the Secretary of the Army to invest in technologies that vastly improve the mechanical durability of unmanned aerial propulsion systems and utilize multi-fuel capable, hybrid electric propulsion. Such technologies should focus on reducing the wear of components and lowering component weights through innovative computational design while also employing directed energy deposition processes based on rapid and predictive simulation tools.

Life Cycle Pilot Process.—The Committee commends the Army for its continuing work in Transformative Manufacturing Technology and strongly encourages the Secretary of the Army to dedicate resources to further the development and equipping of the national technical industrial base with these new and emerging transformative manufacturing and ammunition technologies.

Strategic Materials Research.—The Committee continues to recognize the importance of the Army Research Laboratory [ARL] in expanding research, education, and technology development efforts in materials and metals processing science and engineering, aiming to transform the affordability, performance and environmental sustainability of strategic materials. The Committee further notes that ARL’s Open Campus concept benefits the Army, the academic community, and industry through collaboration involving ARL’s research staff and facilities, leading to continued technological superiority for the U.S. warfighter. The Committee encourages the Army to consider accelerating expansion of its Open Campus approach to its Materials and Manufacturing Science laboratories in order to benefit strategic materials research.

Mobile Camouflage Systems.—The Committee notes that mobile camouflage systems may provide enhanced signature management protection, reduce heat and temperature inside and around combat vehicles, and yield fuel savings without interfering with the operation of the vehicles. The Committee is aware of the Army’s ongoing operational testing of mobile camouflage systems at the National Training Center and elsewhere and encourages further acceleration of those efforts.

Next Generation Body Armor.—The Committee commends the Army’s efforts in advanced research in next generation body armor and the use of cutting-edge material to improve individual protec-

tion, mobility, and survivability on the battlefield. The Committee understands that industry is also investing in this technology and encourages the Army to continue partnering with industry to lighten soldier load, increase individual protection, and enhance soldier survivability.

Material Development, Characterization, and Computational Modeling.—The Committee recognizes the importance of evaluating materials and technologies as well as designing and developing methodologies and models to enable enhanced lethality and survivability. Methods such as computational research allow for the development of models that predict the mechanical properties of materials that are used in research and development at the U.S. Army Research Laboratory [ARL]. These models and simulations, which are based on quantum mechanics, statistical mechanics principles and thermodynamic simulations, and are tested via cold spray synthesis and mechanical testing, provide a cost savings to the Department of Defense by simulating materials prior to testing them to ensure mechanical properties will work together. Additionally, these methodologies allow for the enhanced development of technologies such as lightweight armors, protective structures, kinetic energy active protection, ballistic shock and mine blast protection, helmet technologies to prevent traumatic brain injury, and numerous other uses. The Committee encourages ARL to continue the utilization of computational modeling and simulations research to achieve greater cost savings.

Adaptive Red Team Support.—The Committee supports the work of the Army’s Adaptive Red Team Technical Support and Operational Analysis program and understands it provides vital feedback on information technology system vulnerabilities and limitations. Highlighting these vulnerabilities has translated into more secure and resilient systems as well as increased production cost savings in the acquisition process. Therefore, the Committee encourages the Secretary of the Army to continue to invest in Adaptive Red Team programs.

RESEARCH, DEVELOPMENT, TEST AND EVALUATION, NAVY

| | |
|--------------------------------|------------------|
| Appropriations, 2018 | \$18,010,754,000 |
| Budget estimate, 2019 | 18,481,666,000 |
| Committee recommendation | 18,992,064,000 |

The Committee recommends an appropriation of \$18,992,064,000. This is \$510,398,000 above the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table summarizes the budget estimate for this appropriation, the Committee recommendation, and the Committee recommended adjustments to the budget estimate:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|--|----------------------|--------------------------|-----------------------------|
| | RESEARCH, DEVELOPMENT, TEST & EVAL, NAVY | | | |
| | BASIC RESEARCH | | | |
| 1 | UNIVERSITY RESEARCH INITIATIVES | 119,433 | 154,433 | + 35,000 |
| 2 | IN-HOUSE LABORATORY INDEPENDENT RESEARCH | 19,237 | 19,237 | ..... |

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|---|----------------------|--------------------------|-----------------------------|
| 3 | DEFENSE RESEARCH SCIENCES | 458,708 | 564,208 | + 105,500 |
| | TOTAL, BASIC RESEARCH | 597,378 | 737,878 | + 140,500 |
| | APPLIED RESEARCH | | | |
| 4 | POWER PROJECTION APPLIED RESEARCH | 14,643 | 27,643 | + 13,000 |
| 5 | FORCE PROTECTION APPLIED RESEARCH | 124,049 | 177,549 | + 53,500 |
| 6 | MARINE CORPS LANDING FORCE TECHNOLOGY | 59,607 | 66,607 | + 7,000 |
| 7 | COMMON PICTURE APPLIED RESEARCH | 36,348 | 36,348 | ..... |
| 8 | WARFIGHTER SUSTAINMENT APPLIED RESEARCH | 56,197 | 61,282 | + 5,085 |
| 9 | ELECTROMAGNETIC SYSTEMS APPLIED RESEARCH | 83,800 | 83,800 | ..... |
| 10 | OCEAN WARFIGHTING ENVIRONMENT APPLIED RESEARCH | 42,998 | 79,998 | + 37,000 |
| 11 | JOINT NON-LETHAL WEAPONS APPLIED RESEARCH | 6,349 | 6,349 | ..... |
| 12 | UNDERSEA WARFARE APPLIED RESEARCH | 58,049 | 78,049 | + 20,000 |
| 13 | FUTURE NAVAL CAPABILITIES APPLIED RESEARCH | 147,771 | 147,771 | ..... |
| 14 | MINE AND EXPEDITIONARY WARFARE APPLIED RESEARCH | 37,545 | 37,545 | ..... |
| 15 | INNOVATIVE NAVAL PROTOTYPES (INP) APPLIED RESEARCH | 159,697 | 159,697 | ..... |
| 16 | SCIENCE AND TECHNOLOGY MANAGEMENT—ONR HEAD- QUARTERS | 64,418 | 64,418 | ..... |
| | TOTAL, APPLIED RESEARCH | 891,471 | 1,027,056 | + 135,585 |
| | ADVANCED TECHNOLOGY DEVELOPMENT | | | |
| 19 | FORCE PROTECTION ADVANCED TECHNOLOGY | 2,423 | 36,557 | + 34,134 |
| 20 | ELECTROMAGNETIC SYSTEMS ADVANCED TECHNOLOGY ..... | ..... | 8,804 | + 8,804 |
| 21 | MARINE CORPS ADVANCED TECHNOLOGY DEMONSTRATION [ATD] | 150,245 | 177,245 | + 27,000 |
| 22 | JOINT NON-LETHAL WEAPONS TECHNOLOGY DEVELOPMENT | 13,313 | 13,313 | ..... |
| 23 | NAVY ADVANCED TECHNOLOGY DEVELOPMENT [ATD] | 131,502 | ..... | - 131,502 |
| 24 | FUTURE NAVAL CAPABILITIES ADVANCED TECHNOLOGY DEV | 232,996 | 240,496 | + 7,500 |
| 25 | MANUFACTURING TECHNOLOGY PROGRAM | 58,657 | 58,657 | ..... |
| 26 | WARFIGHTER PROTECTION ADVANCED TECHNOLOGY ..... | ..... | 9,877 | + 9,877 |
| 28 | NAVY WARFIGHTING EXPERIMENTS AND DEMONSTRATIONS ..... | ..... | 67,830 | + 67,830 |
| 29 | MINE AND EXPEDITIONARY WARFARE ADVANCED TECHNOLOGY .. | ..... | 13,172 | + 13,172 |
| 30 | INNOVATIVE NAVAL PROTOTYPES (INP) ADVANCED TECHNOLOGY .. | 161,859 | 275,859 | + 114,000 |
| | TOTAL, ADVANCED TECHNOLOGY DEVELOPMENT | 750,995 | 901,810 | + 150,815 |
| | DEMONSTRATION & VALIDATION | | | |
| 31 | AIR/OCEAN TACTICAL APPLICATIONS | 29,747 | 29,747 | ..... |
| 32 | AVIATION SURVIVABILITY | 7,050 | 7,050 | ..... |
| 33 | AIRCRAFT SYSTEMS | 793 | 793 | ..... |
| 34 | ASW SYSTEMS DEVELOPMENT | 7,058 | 7,058 | ..... |
| 35 | TACTICAL AIRBORNE RECONNAISSANCE | 3,540 | 3,540 | ..... |
| 36 | ADVANCED COMBAT SYSTEMS TECHNOLOGY | 59,741 | 56,831 | - 2,910 |
| 37 | SURFACE AND SHALLOW WATER MINE COUNTERMEASURES | 62,727 | 122,827 | + 60,100 |
| 38 | SURFACE SHIP TORPEDO DEFENSE | 8,570 | 8,570 | ..... |
| 39 | CARRIER SYSTEMS DEVELOPMENT | 5,440 | 5,440 | ..... |
| 40 | PILOT FISH | 162,222 | 138,722 | - 23,500 |
| 41 | RETRACT LARCH | 11,745 | 11,745 | ..... |
| 42 | RETRACT JUNIPER | 114,265 | 114,265 | ..... |
| 43 | RADIOLOGICAL CONTROL | 740 | 740 | ..... |
| 44 | SURFACE ASW | 1,122 | 1,122 | ..... |
| 45 | ADVANCED SUBMARINE SYSTEM DEVELOPMENT | 109,086 | 103,999 | - 5,087 |
| 46 | SUBMARINE TACTICAL WARFARE SYSTEMS | 9,374 | 12,374 | + 3,000 |
| 47 | SHIP CONCEPT ADVANCED DESIGN | 89,419 | 116,419 | + 27,000 |
| 48 | SHIP PRELIMINARY DESIGN & FEASIBILITY STUDIES | 13,348 | 13,348 | ..... |
| 49 | ADVANCED NUCLEAR POWER SYSTEMS | 256,137 | 256,137 | ..... |
| 50 | ADVANCED SURFACE MACHINERY SYSTEMS | 22,109 | 27,109 | + 5,000 |
| 51 | CHALK EAGLE | 29,744 | 29,744 | ..... |
| 52 | LITTORAL COMBAT SHIP [LCS] | 27,997 | 27,997 | ..... |
| 53 | COMBAT SYSTEM INTEGRATION | 16,351 | 27,051 | + 10,700 |
| 54 | OHIO REPLACEMENT PROGRAM | 514,846 | 542,846 | + 28,000 |
| 55 | LITTORAL COMBAT SHIP [LCS] MISSION MODULES | 103,633 | 103,633 | ..... |
| 56 | AUTOMATED TEST AND RE-TEST | 7,931 | 7,931 | ..... |
| 57 | FRIGATE DEVELOPMENT | 134,772 | 134,772 | ..... |

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|--|----------------------|--------------------------|-----------------------------|
| 58 | CONVENTIONAL MUNITIONS | 9,307 | 9,307 | ..... |
| 60 | MARINE CORPS GROUND COMBAT/SUPPORT SYSTEM | 1,828 | 1,828 | ..... |
| 61 | JOINT SERVICE EXPLOSIVE ORDNANCE DEVELOPMENT | 43,148 | 43,148 | ..... |
| 62 | OCEAN ENGINEERING TECHNOLOGY DEVELOPMENT | 5,915 | 5,915 | ..... |
| 63 | ENVIRONMENTAL PROTECTION | 19,811 | 19,811 | ..... |
| 64 | NAVY ENERGY PROGRAM | 25,656 | 32,656 | + 7,000 |
| 65 | FACILITIES IMPROVEMENT | 5,301 | 5,301 | ..... |
| 66 | CHALK CORAL | 267,985 | 267,985 | ..... |
| 67 | NAVY LOGISTIC PRODUCTIVITY | 4,059 | 4,059 | ..... |
| 68 | RETRACT MAPLE | 377,878 | 318,878 | - 59,000 |
| 69 | LINK PLUMERIA | 381,770 | 381,770 | ..... |
| 70 | RETRACT ELM | 60,535 | 60,535 | ..... |
| 73 | NATO RESEARCH AND DEVELOPMENT | 9,652 | 9,652 | ..... |
| 74 | LAND ATTACK TECHNOLOGY | 15,529 | 5,700 | - 9,829 |
| 75 | JOINT NONLETHAL WEAPONS TESTING | 27,581 | 27,581 | ..... |
| 76 | JOINT PRECISION APPROACH AND LANDING SYSTEMS | 101,566 | 101,566 | ..... |
| 77 | DIRECTED ENERGY AND ELECTRIC WEAPON SYSTEMS | 223,344 | 131,914 | - 91,430 |
| 78 | F/A-18 INFRARED SEARCH AND TRACK (IRST) | 108,700 | 108,700 | ..... |
| 79 | DIGITAL WARFARE OFFICE | 26,691 | 26,691 | ..... |
| 80 | SMALL AND MEDIUM UNMANNED UNDERSEA VEHICLES | 16,717 | 16,717 | ..... |
| 81 | UNMANNED UNDERSEA VEHICLE CORE TECHNOLOGIES | 30,187 | 30,187 | ..... |
| 82 | RAPID PROTOTYPING, EXPERIMENTATION AND DEMONSTRATION | 48,796 | 33,796 | - 15,000 |
| 83 | LARGE UNMANNED UNDERSEA VEHICLES | 92,613 | 45,613 | - 47,000 |
| 84 | GERALD R. FORD CLASS NUCLEAR AIRCRAFT CARRIER | 58,121 | 83,121 | + 25,000 |
| 86 | LITTORAL AIRBORNE MCM | 17,622 | 17,622 | ..... |
| 87 | SURFACE MINE COUNTERMEASURES | 18,154 | 18,154 | ..... |
| 88 | TACTICAL AIR DIRECTIONAL INFRARED COUNTERMEASURES | 47,278 | 47,278 | ..... |
| 90 | NEXT GENERATION LOGISTICS | 11,081 | 6,135 | - 4,946 |
| 92 | RAPID TECHNOLOGY CAPABILITY PROTOTYPE | 7,107 | 7,107 | ..... |
| 93 | LX (R) | 5,549 | 5,549 | ..... |
| 94 | ADVANCED UNDERSEA PROTOTYPING | 87,669 | 112,669 | + 25,000 |
| 95 | PRECISION STRIKE WEAPONS DEVELOPMENT PROGRAM | 132,818 | 119,918 | - 12,900 |
| 96 | SPACE & ELECTRONIC WARFARE [SEW] ARCHITECTURE/ENGINE | 7,230 | 7,230 | ..... |
| 97 | OFFENSIVE ANTI-SURFACE WARFARE WEAPON DEVELOPMENT | 143,062 | 143,062 | ..... |
| 99 | ASW SYSTEMS DEVELOPMENT—MIP | 8,889 | 8,889 | ..... |
| 100 | ADVANCED TACTICAL UNMANNED AIRCRAFT SYSTEM | 25,291 | 11,291 | - 14,000 |
| 101 | ADVANCED TACTICAL UNMANNED AIRCRAFT SYSTEM | 9,300 | 9,300 | ..... |
| 102 | ELECTRONIC WARFARE DEVELOPMENT—MIP | 466 | 466 | ..... |
| | TOTAL, DEMONSTRATION & VALIDATION | 4,293,713 | 4,198,911 | - 94,802 |
| | ENGINEERING & MANUFACTURING DEVELOPMENT | | | |
| 103 | TRAINING SYSTEM AIRCRAFT | 12,798 | 12,798 | ..... |
| 104 | OTHER HELO DEVELOPMENT | 32,128 | 32,128 | ..... |
| 105 | AV-8B AIRCRAFT—ENG DEV | 46,363 | 46,363 | ..... |
| 107 | STANDARDS DEVELOPMENT | 3,771 | 3,771 | ..... |
| 108 | MULTI-MISSION HELICOPTER UPGRADE DEVELOPMENT | 16,611 | 16,611 | ..... |
| 109 | AIR/OCEAN EQUIPMENT ENGINEERING | 17,368 | 17,368 | ..... |
| 110 | P-3 MODERNIZATION PROGRAM | 2,134 | 2,134 | ..... |
| 111 | WARFARE SUPPORT SYSTEM | 9,729 | 9,729 | ..... |
| 112 | TACTICAL COMMAND SYSTEM | 57,688 | 57,688 | ..... |
| 113 | ADVANCED HAWKEYE | 223,565 | 238,065 | + 14,500 |
| 114 | H-1 UPGRADES | 58,097 | 58,097 | ..... |
| 116 | ACOUSTIC SEARCH SENSORS | 42,485 | 42,485 | ..... |
| 117 | V-22A | 143,079 | 143,079 | ..... |
| 118 | AIR CREW SYSTEMS DEVELOPMENT | 20,980 | 30,980 | + 10,000 |
| 119 | EA-18 | 147,419 | 242,719 | + 95,300 |
| 120 | ELECTRONIC WARFARE DEVELOPMENT | 89,824 | 115,224 | + 25,400 |
| 121 | EXECUTIVE HELO DEVELOPMENT | 245,064 | 245,064 | ..... |
| 123 | NEXT GENERATION JAMMER [NGJ] | 459,529 | 459,529 | ..... |
| 124 | JOINT TACTICAL RADIO SYSTEM—NAVY [JTRS—Navy] | 3,272 | 3,272 | ..... |
| 125 | NEXT GENERATION JAMMER [NGJ] INCREMENT II | 115,253 | 99,253 | - 16,000 |
| 126 | SURFACE COMBATANT COMBAT SYSTEM ENGINEERING | 397,403 | 396,403 | - 1,000 |
| 127 | LPD-17 CLASS SYSTEMS INTEGRATION | 939 | 939 | ..... |

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|---|----------------------|--------------------------|-----------------------------|
| 128 | SMALL DIAMETER BOMB (SDB) | 104,448 | 104,448 | ..... |
| 129 | STANDARD MISSILE IMPROVEMENTS | 165,881 | 190,881 | + 25,000 |
| 130 | AIRBORNE MCM | 10,831 | 10,831 | ..... |
| 131 | NAVAL INTEGRATED FIRE CONTROL-COUNTER AIR SYSTEMS ENG | 33,429 | 33,429 | ..... |
| 132 | ADVANCED ABOVE WATER SENSORS | 35,635 | 35,635 | ..... |
| 133 | SSN-688 AND TRIDENT MODERNIZATION | 126,932 | 126,932 | ..... |
| 134 | AIR CONTROL | 62,448 | 62,448 | ..... |
| 135 | SHIPBOARD AVIATION SYSTEMS | 9,710 | 13,710 | + 4,000 |
| 136 | COMBAT INFORMATION CENTER CONVERSION | 19,303 | 19,303 | ..... |
| 137 | AIR AND MISSILE DEFENSE RADAR (AMDR) SYSTEM | 27,059 | 27,059 | ..... |
| 138 | ADVANCED ARRESTING GEAR (AAG) | 184,106 | 184,106 | ..... |
| 139 | NEW DESIGN SSN | 148,233 | 160,233 | + 12,000 |
| 140 | SUBMARINE TACTICAL WARFARE SYSTEM | 60,824 | 65,824 | + 5,000 |
| 141 | SHIP CONTRACT DESIGN/LIVE FIRE T&E | 60,062 | 71,062 | + 11,000 |
| 142 | NAVY TACTICAL COMPUTER RESOURCES | 4,642 | 4,642 | ..... |
| 144 | MINE DEVELOPMENT | 25,756 | 25,756 | ..... |
| 145 | LIGHTWEIGHT TORPEDO DEVELOPMENT | 95,147 | 63,147 | - 32,000 |
| 146 | JOINT SERVICE EXPLOSIVE ORDNANCE DEVELOPMENT | 7,107 | 7,107 | ..... |
| 147 | PERSONNEL, TRAINING, SIMULATION, AND HUMAN FACTORS | 6,539 | 6,539 | ..... |
| 148 | JOINT STANDOFF WEAPON SYSTEMS | 441 | 441 | ..... |
| 149 | SHIP SELF DEFENSE (DETECT & CONTROL) | 180,391 | 180,391 | ..... |
| 150 | SHIP SELF DEFENSE (ENGAGE: HARD KILL) | 178,538 | 182,538 | + 4,000 |
| 151 | SHIP SELF DEFENSE (ENGAGE: SOFT KILL/EW) | 120,507 | 120,507 | ..... |
| 152 | INTELLIGENCE ENGINEERING | 29,715 | 29,715 | ..... |
| 153 | MEDICAL DEVELOPMENT | 8,095 | 8,095 | ..... |
| 154 | NAVIGATION/ID SYSTEM | 121,026 | 121,026 | ..... |
| 155 | JOINT STRIKE FIGHTER (JSF)—EMD | 66,566 | 66,566 | ..... |
| 156 | JOINT STRIKE FIGHTER (JSF) | 65,494 | 65,494 | ..... |
| 159 | INFORMATION TECHNOLOGY DEVELOPMENT | 14,005 | 14,005 | ..... |
| 160 | INFORMATION TECHNOLOGY DEVELOPMENT | 268,567 | 218,567 | - 50,000 |
| 161 | ANTI-TAMPER TECHNOLOGY SUPPORT | 5,618 | 5,618 | ..... |
| 162 | CH-53K | 326,945 | 331,945 | + 5,000 |
| 164 | MISSION PLANNING | 32,714 | 32,714 | ..... |
| 165 | COMMON AVIONICS | 51,486 | 51,486 | ..... |
| 166 | SHIP TO SHORE CONNECTOR (SSC) | 1,444 | 1,444 | ..... |
| 167 | T-AO (X) | 1,298 | 1,298 | ..... |
| 168 | UNMANNED CARRIER AVIATION | 718,942 | 668,942 | - 50,000 |
| 169 | JOINT AIR-TO-GROUND MISSILE (JAGM) | 6,759 | 16,559 | + 9,800 |
| 171 | MULTI-MISSION MARITIME AIRCRAFT [MMA] | 37,296 | 37,296 | ..... |
| 172 | MULTI-MISSION MARITIME AIRCRAFT [MMA] INCREMENT 3 | 160,389 | 160,389 | ..... |
| 173 | MARINE CORPS ASSAULT VEHICLES SYSTEM DEVELOPMENT AND DEMO | 98,223 | 48,923 | - 49,300 |
| 174 | JOINT LIGHT TACTICAL VEHICLE (JLTV) SYSTEM DEVELOPMENT AND DEMO | 2,260 | ..... | - 2,260 |
| 175 | DDG-1000 | 161,264 | 140,264 | - 21,000 |
| 180 | TACTICAL CRYPTOLOGIC SYSTEMS | 44,098 | 52,998 | + 8,900 |
| 182 | CYBER OPERATIONS TECHNOLOGY DEVELOPMENT | 6,808 | 6,808 | ..... |
| | TOTAL, ENGINEERING & MANUFACTURING DEVELOPMENT | 6,042,480 | 6,050,820 | + 8,340 |
| | RDT&E MANAGEMENT SUPPORT | | | |
| 183 | THREAT SIMULATOR DEVELOPMENT | 94,576 | 94,576 | ..... |
| 184 | TARGET SYSTEMS DEVELOPMENT | 10,981 | 10,981 | ..... |
| 185 | MAJOR T&E INVESTMENT | 77,014 | 183,014 | + 106,000 |
| 186 | JOINT THEATER AIR AND MISSILE DEFENSE ORGANIZATION | 48 | 48 | ..... |
| 187 | STUDIES AND ANALYSIS SUPPORT—NAVY | 3,942 | 3,942 | ..... |
| 188 | CENTER FOR NAVAL ANALYSES | 48,797 | 48,797 | ..... |
| 189 | NEXT GENERATION FIGHTER | 5,000 | 5,000 | ..... |
| 191 | TECHNICAL INFORMATION SERVICES | 1,029 | 1,029 | ..... |
| 192 | MANAGEMENT, TECHNICAL & INTERNATIONAL SUPPORT | 87,565 | 87,565 | ..... |
| 193 | STRATEGIC TECHNICAL SUPPORT | 4,231 | 4,231 | ..... |
| 194 | RDT&E SCIENCE AND TECHNOLOGY MANAGEMENT | 1,072 | 1,072 | ..... |
| 195 | RDT&E SHIP AND AIRCRAFT SUPPORT | 97,471 | 97,471 | ..... |

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|---|----------------------|--------------------------|-----------------------------|
| 196 | TEST AND EVALUATION SUPPORT | 373,834 | 473,834 | + 100,000 |
| 197 | OPERATIONAL TEST AND EVALUATION CAPABILITY | 21,554 | 21,554 | ..... |
| 198 | NAVY SPACE AND ELECTRONIC WARFARE [SEW] SUPPORT | 16,227 | 16,227 | ..... |
| 200 | MARINE CORPS PROGRAM WIDE SUPPORT | 24,303 | 24,303 | ..... |
| 201 | MANAGEMENT HEADQUARTERS—R&D | 43,262 | 43,262 | ..... |
| 202 | WARFARE INNOVATION MANAGEMENT | 41,918 | 41,918 | ..... |
| 203 | ASSESSMENTS AND EVALUATIONS CYBER VULNERABILITIES | 7,000 | 7,000 | ..... |
| 204 | ASSESSMENTS AND EVALUATIONS CYBER VULNERABILITIES | 48,800 | 48,800 | ..... |
| 205 | INSIDER THREAT | 1,682 | 1,682 | ..... |
| 206 | MANAGEMENT HEADQUARTERS (DEPARTMENTAL SUPPORT ACTIVITIES) | 1,579 | 1,579 | ..... |
| 208 | SEW SURVEILLANCE/RECONNAISSANCE SUPPORT | 8,684 | 8,684 | ..... |
| | TOTAL, RDT&E MANAGEMENT SUPPORT | 1,020,569 | 1,226,569 | + 206,000 |
| | OPERATIONAL SYSTEMS DEVELOPMENT | | | |
| 210 | HARPOON MODIFICATIONS | 5,426 | 5,426 | ..... |
| 211 | F-35 C2D2 | 259,122 | 199,560 | - 59,562 |
| 212 | F-35 C2D2 | 252,360 | 194,352 | - 58,008 |
| 213 | COOPERATIVE ENGAGEMENT CAPABILITY (CEC) | 130,515 | 130,515 | ..... |
| 214 | DEPLOYABLE JOINT COMMAND AND CONTROL | 3,127 | 3,127 | ..... |
| 215 | STRATEGIC SUB & WEAPONS SYSTEM SUPPORT | 157,679 | 167,879 | + 10,200 |
| 216 | SSBN SECURITY TECHNOLOGY PROGRAM | 43,198 | 43,198 | ..... |
| 217 | SUBMARINE ACOUSTIC WARFARE DEVELOPMENT | 11,311 | 11,311 | ..... |
| 218 | NAVY STRATEGIC COMMUNICATIONS | 39,313 | 39,313 | ..... |
| 219 | F/A-18 SQUADRONS | 193,086 | 202,886 | + 9,800 |
| 220 | FLEET TACTICAL DEVELOPMENT | 25,014 | 1,344 | - 23,670 |
| 221 | SURFACE SUPPORT | 11,661 | 11,661 | ..... |
| 222 | TOMAHAWK AND TOMAHAWK MISSION PLANNING CENTER (TMPC) | 282,395 | 282,395 | ..... |
| 223 | INTEGRATED SURVEILLANCE SYSTEM | 36,959 | 71,959 | + 35,000 |
| 224 | SHIP-TOWED ARRAY SURVEILLANCE SYSTEMS | 15,454 | 15,454 | ..... |
| 225 | AMPHIBIOUS TACTICAL SUPPORT UNITS | 6,073 | 6,073 | ..... |
| 226 | GROUND/AIR TASK ORIENTED RADAR | 45,029 | 45,029 | ..... |
| 227 | CONSOLIDATED TRAINING SYSTEMS DEVELOPMENT | 104,903 | 104,903 | ..... |
| 228 | CRYPTOLOGIC DIRECT SUPPORT | 4,544 | 4,544 | ..... |
| 229 | ELECTRONIC WARFARE [EW] READINESS SUPPORT | 66,889 | 66,889 | ..... |
| 230 | HARM IMPROVEMENT | 120,762 | 120,762 | ..... |
| 231 | TACTICAL DATA LINKS | 104,696 | 116,696 | + 12,000 |
| 232 | SURFACE ASW COMBAT SYSTEM INTEGRATION | 28,421 | 28,421 | ..... |
| 233 | MK-48 ADCAP | 94,155 | 68,255 | - 25,900 |
| 234 | AVIATION IMPROVEMENTS | 121,805 | 138,805 | + 17,000 |
| 235 | OPERATIONAL NUCLEAR POWER SYSTEMS | 117,028 | 117,028 | ..... |
| 236 | MARINE CORPS COMMUNICATIONS SYSTEMS | 174,779 | 174,779 | ..... |
| 237 | COMMON AVIATION COMMAND AND CONTROL SYSTEM | 4,826 | 4,826 | ..... |
| 238 | MARINE CORPS GROUND COMBAT/SUPPORTING ARMS SYSTEMS | 97,152 | 97,152 | ..... |
| 239 | MARINE CORPS COMBAT SERVICES SUPPORT | 30,156 | 30,156 | ..... |
| 240 | USMC INTELLIGENCE/ELECTRONIC WARFARE SYSTEMS [MIP] | 39,976 | 39,976 | ..... |
| 241 | AMPHIBIOUS ASSAULT VEHICLE | 22,637 | 22,637 | ..... |
| 242 | TACTICAL AIM MISSILES | 40,121 | 40,121 | ..... |
| 243 | ADVANCED MEDIUM RANGE AIR-TO-AIR MISSILE (AMRAAM) | 32,473 | 27,473 | - 5,000 |
| 249 | CONSOLIDATED AFLOAT NETWORK ENTERPRISE SERVICES | 23,697 | 23,697 | ..... |
| 250 | INFORMATION SYSTEMS SECURITY PROGRAM | 44,228 | 44,228 | ..... |
| 252 | JOINT MILITARY INTELLIGENCE PROGRAMS | 6,081 | 6,081 | ..... |
| 253 | TACTICAL UNMANNED AERIAL VEHICLES | 8,529 | 8,529 | ..... |
| 254 | UAS INTEGRATION AND INTEROPERABILITY | 41,212 | 41,212 | ..... |
| 255 | DISTRIBUTED COMMON GROUND SYSTEMS/SURFACE SYSTEMS .. | 7,687 | 7,687 | ..... |
| 256 | DISTRIBUTED COMMON GROUND SYSTEMS/SURFACE SYSTEMS .. | 42,846 | 42,846 | ..... |
| 257 | MQ-4C TRITON | 14,395 | 14,395 | ..... |
| 258 | MQ-8 UAV | 9,843 | 24,143 | + 14,300 |
| 259 | RQ-11 UAV | 524 | 524 | ..... |
| 260 | SMALL (LEVEL 0) TACTICAL UAS (STUASLO) | 5,360 | 5,360 | ..... |
| 261 | RQ-21A | 10,914 | 10,914 | ..... |
| 262 | MULTI-INTELLIGENCE SENSOR DEVELOPMENT | 81,231 | 81,231 | ..... |
| 263 | UNMANNED AERIAL SYSTEMS (UAS) PAYLOADS [MIP] | 5,956 | 5,956 | ..... |

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|---|----------------------|--------------------------|-----------------------------|
| 264 | RQ-4 MODERNIZATION | 219,894 | 219,894 | ..... |
| 265 | MODELING AND SIMULATION SUPPORT | 7,097 | 7,097 | ..... |
| 266 | DEPOT MAINTENANCE (NON-IF) | 36,560 | 46,560 | + 10,000 |
| 267 | MARITIME TECHNOLOGY (MARITECH) | 7,284 | 27,284 | + 20,000 |
| 268 | SATELLITE COMMUNICATIONS (SPACE) | 39,174 | 39,174 | ..... |
| | TOTAL, OPERATIONAL SYSTEMS DEVELOPMENT | 3,335,557 | 3,291,717 | - 43,840 |
| 9999 | CLASSIFIED PROGRAMS | 1,549,503 | 1,557,303 | + 7,800 |
| | TOTAL, RESEARCH, DEVELOPMENT, TEST & EVAL, NAVY | 18,481,666 | 18,992,064 | + 510,398 |

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|---|----------------------|--------------------------|-----------------------------|
| 1 | University Research Initiatives | 119,433 | 154,433 | + 35,000 |
| | Basic research program increase ..... | ..... | ..... | + 25,000 |
| | Program increase: Aircraft fleet readiness and sustainment ..... | ..... | ..... | + 10,000 |
| 3 | Defense Research Sciences | 458,708 | 564,208 | + 105,500 |
| | Basic research program increase ..... | ..... | ..... | + 100,000 |
| | Program increase: Navy ROTC cybersecurity training program ..... | ..... | ..... | + 5,500 |
| 4 | Power Projection Applied Research | 14,643 | 27,643 | + 13,000 |
| | Program increase: Directed energy ..... | ..... | ..... | + 4,000 |
| | Program increase: High performance microwave systems for counter-UAS defense ..... | ..... | ..... | + 9,000 |
| 5 | Force Protection Applied Research | 124,049 | 177,549 | + 53,500 |
| | Program increase: Advanced energetics research ..... | ..... | ..... | + 7,500 |
| | Program increase: Advanced hull form development and demonstration ..... | ..... | ..... | + 8,000 |
| | Program increase: Hybrid composite structures research for enhanced mobility ..... | ..... | ..... | + 5,000 |
| | Program increase: Navy alternative energy research ..... | ..... | ..... | + 25,000 |
| | Program increase: Power generation and storage research ..... | ..... | ..... | + 5,000 |
| | Program increase: Standoff detection of buried hazards and munitions ..... | ..... | ..... | + 3,000 |
| 6 | Marine Corps Landing Force Technology | 59,607 | 66,607 | + 7,000 |
| | Program increase: Interdisciplinary expeditionary cybersecurity research ..... | ..... | ..... | + 5,000 |
| | Program increase: Marine Corps asset life-cycle management ..... | ..... | ..... | + 2,000 |
| 8 | Warfighter Sustainment Applied Research | 56,197 | 61,282 | + 5,085 |
| | Transfer from line 23: Retain previous budget structure ..... | ..... | ..... | + 2,685 |
| | Program increase ..... | ..... | ..... | + 2,400 |
| 10 | Ocean Warfighting Environment Applied Research | 42,998 | 79,998 | + 37,000 |
| | Program increase: Acoustics research ..... | ..... | ..... | + 2,000 |
| | Program increase: Multi-modal detection research ..... | ..... | ..... | + 10,000 |
| | Program increase: Naval Special Warfare superiority in undersea and maritime environments ..... | ..... | ..... | + 10,000 |
| | Program increase: Persistent maritime surveillance ..... | ..... | ..... | + 15,000 |
| 12 | Undersea Warfare Applied Research | 58,049 | 78,049 | + 20,000 |
| | Program increase ..... | ..... | ..... | + 20,000 |
| 19 | Force Protection Advanced Technology | 2,423 | 36,557 | + 34,134 |
| | Transfer from line 23: Retain previous budget structure ..... | ..... | ..... | + 34,134 |
| 20 | Electromagnetic Systems Advanced Technology ..... | ..... | 8,804 | + 8,804 |
| | Transfer from line 23: Retain previous budget structure ..... | ..... | ..... | + 8,804 |

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|--|----------------------|--------------------------|-----------------------------|
| 21 | USMC Advanced Technology Demonstration [ATD] | 150,245 | 177,245 | + 27,000 |
| | Program increase: Common unmanned aerial vehicle simulation system | | | + 10,000 |
| | Program increase: Flight motion simulator and testing of UAVs | | | + 6,000 |
| | Program increase: Modular advanced armed robotic system 2.0 | | | + 4,000 |
| | Program increase: UAS air-delivered extended range munitions demo | | | + 7,000 |
| 23 | Navy Advanced Technology Development [ATD] | 131,502 | | - 131,502 |
| | Transfer to line 19: Retain previous budget structure | | | - 34,134 |
| | Transfer to line 20: Retain previous budget structure | | | - 8,804 |
| | Transfer to line 26: Retain previous budget structure | | | - 4,877 |
| | Transfer to line 28: Retain previous budget structure | | | - 67,830 |
| | Transfer to line 29: Retain previous budget structure | | | - 13,172 |
| | Transfer to line 8: Retain previous budget structure | | | - 2,685 |
| 24 | Future Naval Capabilities Advanced Technology Development | 232,996 | 240,496 | + 7,500 |
| | Program increase: Advanced development of high yield conventional energetics | | | + 7,500 |
| 26 | Warfighter Protection Advanced Technology | | 9,877 | + 9,877 |
| | Transfer from line 23: Retain previous budget structure | | | + 4,877 |
| | Program increase: Novel therapeutic interventions research | | | + 5,000 |
| 28 | Navy Warfighting Experiments and Demonstrations | | 67,830 | + 67,830 |
| | Transfer from line 23: Retain previous budget structure | | | + 67,830 |
| 29 | Mine and Expeditionary Warfare Advanced Technology | | 13,172 | + 13,172 |
| | Transfer from line 23: Retain previous budget structure | | | + 13,172 |
| 30 | Innovative Naval Prototypes (INP) Advanced Technology Development | 161,859 | 275,859 | + 114,000 |
| | Program increase: Electromagnetic railgun | | | + 15,000 |
| | Program increase: Rail gun with hypervelocity projectile | | | + 99,000 |
| 36 | Advanced Combat Systems Technology | 59,741 | 56,831 | - 2,910 |
| | Maintaining program affordability: Project 3422 unjustified program growth | | | - 2,910 |
| 37 | Surface and Shallow Water Mine Countermeasures | 62,727 | 122,827 | + 60,100 |
| | Program increase: Medium displacement unmanned surface vehicle | | | + 42,000 |
| | Program increase: Navy identified MCM USV requirement | | | + 14,100 |
| | Program increase: Navy identified UISS requirement | | | + 4,000 |
| 40 | PILOT FISH | 162,222 | 138,722 | - 23,500 |
| | Program adjustment | | | - 23,500 |
| 45 | Advanced Submarine System Development | 109,086 | 103,999 | - 5,087 |
| | Project 2096: SL-UKAS program termination | | | - 5,087 |
| 46 | Submarine Tactical Warfare Systems | 9,374 | 12,374 | + 3,000 |
| | Program increase: Advanced submarine electronic warfare systems | | | + 3,000 |
| 47 | Ship Concept Advanced Design | 89,419 | 116,419 | + 27,000 |
| | Program increase: CHAMP acceleration | | | + 18,000 |
| | Program increase: Cyber Boundary Defense—CPSD cyber security cap devel | | | + 9,000 |
| 50 | Advanced Surface Machinery Systems | 22,109 | 27,109 | + 5,000 |
| | Program increase: Silicon carbide power electronics | | | + 5,000 |
| 53 | Combat System Integration | 16,351 | 27,051 | + 10,700 |
| | Program increase: Cyber Boundary Defense—Strike Force Interoperability | | | + 10,700 |
| 54 | Ohio Replacement | 514,846 | 542,846 | + 28,000 |
| | Program increase: Advanced materials propeller program | | | + 15,000 |
| | Program increase: Naval Propulsion Foundry Center facility power upgrades | | | + 13,000 |
| 64 | Navy Energy Program | 25,656 | 32,656 | + 7,000 |
| | Program increase: Marine hydrokinetic energy | | | + 7,000 |
| 68 | RETRACT MAPLE | 377,878 | 318,878 | - 59,000 |
| | Program adjustment | | | - 59,000 |
| 74 | Land Attack Technology | 15,529 | 5,700 | - 9,829 |

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|--|----------------------|--------------------------|-----------------------------|
| | Restoring acquisition accountability: Project 3401 lack of program funding | | | - 14,829 |
| | Program increase: Guided projectile | | | + 5,000 |
| 77 | Directed Energy and Electric Weapon Systems | 223,344 | 131,914 | - 91,430 |
| | Restoring acquisition accountability: Project 3402 additional prototypes | | | - 106,430 |
| | Program increase: Electromagnetic railgun | | | + 15,000 |
| 82 | Rapid Prototyping, Experimentation and Demonstration | 48,796 | 33,796 | - 15,000 |
| | Insufficient budget justification: TBD initiatives program adjustment | | | - 15,000 |
| 83 | Large Unmanned Undersea Vehicles | 92,613 | 45,613 | - 47,000 |
| | Transfer funding to XLUUV: Transfer to line 94 for updated acquisition strategy | | | - 25,000 |
| | Restoring acquisition accountability: Change in acquisition strategy to accelerate delta design | | | - 22,000 |
| 84 | Gerald R. Ford Class Nuclear Aircraft Carrier (CVN 78—80) ... | 58,121 | 83,121 | + 25,000 |
| | Transfer funding from SCN: CVN 78 Full Ship Shock Trial | | | + 25,000 |
| 90 | Expeditionary Logistics | 11,081 | 6,135 | - 4,946 |
| | Program termination: Project 2743 | | | - 4,946 |
| 94 | Advanced Undersea Prototyping | 87,669 | 112,669 | + 25,000 |
| | Transfer funding from LDUUV: Updated acquisition strategy | | | + 25,000 |
| 95 | Precision Strike Weapons Development Program | 132,818 | 119,918 | - 12,900 |
| | Restoring acquisition accountability: Project 3378 schedule delays | | | - 12,900 |
| 97 | Offensive Anti-Surface Warfare Weapon Development | 143,062 | 143,062 | |
| | Restoring acquisition accountability: Additional capabilities program adjustment —transfer to fully fund operational test requirements for additional capabilities | | | [-20,000] |
| | Restoring acquisition accountability: Transfer from additional capabilities to fully fund operational test requirements for additional capabilities | | | [+ 20,000] |
| 100 | Advanced Tactical Unmanned Aircraft System | 25,291 | 11,291 | - 14,000 |
| | Restoring acquisition accountability: Project 3135 program adjustment | | | - 14,000 |
| 113 | Advanced Hawkeye | 223,565 | 238,065 | + 14,500 |
| | Improving funds management: Excess carryover | | | - 25,000 |
| | Program increase: Cyber Boundary Defense—E-2D AHE | | | + 27,500 |
| | Program increase: E-2D Hawkeye advanced radar | | | + 12,000 |
| 118 | Air Crew Systems Development | 20,980 | 30,980 | + 10,000 |
| | Program increase: Advance aircrew physiological monitoring | | | + 10,000 |
| 119 | EA-18 | 147,419 | 242,719 | + 95,300 |
| | Program increase: EA-18G reactive electronic attack measures research | | | + 95,300 |
| 120 | Electronic Warfare Development | 89,824 | 115,224 | + 25,400 |
| | Program termination: UAS EW Payload | | | - 6,200 |
| | Program increase: EA-18G offensive airborne electronic attack special mission pod | | | + 31,600 |
| 125 | Next Generation Jammer [NGJ] Increment II | 115,253 | 99,253 | - 16,000 |
| | Restoring acquisition accountability: Technology demonstration contracts award delays | | | - 16,000 |
| 126 | Surface Combatant Combat System Engineering | 397,403 | 396,403 | - 1,000 |
| | Restoring acquisition accountability: Far Term Interoperability Improvement Plan unjustified growth | | | - 11,000 |
| | AEGIS force-level interoperability definition and analysis | | | + 10,000 |
| 129 | Standard Missile Improvements | 165,881 | 190,881 | + 25,000 |
| | Program increase: SM-6 electronics unit | | | + 25,000 |
| 135 | Shipboard Aviation Systems | 9,710 | 13,710 | + 4,000 |
| | Program increase: Improving aircraft carrier readiness ... | | | + 4,000 |
| 139 | New Design SSN | 148,233 | 160,233 | + 12,000 |
| | Program increase: New design SSN | | | + 12,000 |

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|---|----------------------|--------------------------|-----------------------------|
| 140 | Submarine Tactical Warfare System | 60,824 | 65,824 | + 5,000 |
| | Program increase: Submarine tactical warfare system ... | | | + 5,000 |
| 141 | Ship Contract Design/ Live Fire T&E | 60,062 | 71,062 | + 11,000 |
| | Program increase: DDG 51 advance degaussing mine protection system retrofit | | | + 5,000 |
| | Program increase: Planning to support FY 2021 award of LHA-9 | | | + 6,000 |
| 145 | Lightweight Torpedo Development | 95,147 | 63,147 | - 32,000 |
| | Restoring acquisition accountability: Project 3418 post-system design and engineering funds early to need ... | | | - 32,000 |
| 150 | Ship Self Defense (Engage: Hard Kill) | 178,538 | 182,538 | + 4,000 |
| | Program increase: Condition based maintenance | | | + 4,000 |
| 160 | Information Technology Development | 268,567 | 218,567 | - 50,000 |
| | Improving funds management: Project 2905 excess program growth | | | - 35,000 |
| | Improving funds management: Project 3432 excess program growth and concurrency | | | - 25,000 |
| | Program increase: Advanced radar condition based maintenance | | | + 10,000 |
| 162 | CH-53K RDTE | 326,945 | 331,945 | + 5,000 |
| | Program increase: Common lightweight cargo system ... | | | + 5,000 |
| 168 | Unmanned Carrier Aviation (UCA) | 718,942 | 668,942 | - 50,000 |
| | Improving funds management: Test equipment early to need | | | - 50,000 |
| 169 | Joint Air-to-Ground Missile (JAGM) | 6,759 | 16,559 | + 9,800 |
| | Program increase: Marine Corps joint air-to-ground missile for fixed wing aircraft | | | + 9,800 |
| 173 | Marine Corps Assault Vehicles System Development & Demonstration | 98,223 | 48,923 | - 49,300 |
| | Restoring acquisition accountability: Project 0026 excess concurrency | | | - 49,300 |
| 174 | Joint Light Tactical Vehicle (JLTV) System Development & Demonstration | 2,260 | | - 2,260 |
| | Improving funds management: Funds excess to need | | | - 2,260 |
| 175 | DDG-1000 | 161,264 | 140,264 | - 21,000 |
| | Restoring acquisition accountability: Program adjustment due to lack of acquisition and test strategies ... | | | - 21,000 |
| 180 | Tactical Cryptologic Systems | 44,098 | 52,998 | + 8,900 |
| | Program increase: Integrated fires acceleration | | | + 8,900 |
| 185 | Major T&E Investment | 77,014 | 183,014 | + 106,000 |
| | Program increase | | | + 100,000 |
| | Program increase: Ground based sense-and-avoid | | | + 6,000 |
| 196 | Test and Evaluation Support | 373,834 | 473,834 | + 100,000 |
| | Program increase | | | + 100,000 |
| 211 | Operational F-35 C2D2 | 259,122 | 199,560 | - 59,562 |
| | Restoring acquisition accountability: C2D2 Phase 2 contract award delays | | | - 18,384 |
| | Restoring acquisition accountability: C2D2 flight test contract award delays | | | - 5,335 |
| | Improving funds management: ECASE excess growth | | | - 7,904 |
| | Improving funds management: Developmental Foundation excess growth | | | - 24,554 |
| | Improving funds management: Fixed JPO costs excess growth | | | - 3,385 |
| 212 | Operational F-35 C2D2 | 252,360 | 194,352 | - 58,008 |
| | Restoring acquisition accountability: C2D2 Phase 2 contract award delays | | | - 17,904 |
| | Restoring acquisition accountability: C2D2 flight test contract award delays | | | - 5,196 |
| | Improving funds management: ECASE excess growth | | | - 7,697 |
| | Improving funds management: Developmental Foundation excess growth | | | - 23,913 |
| | Improving funds management: Fixed JPO costs excess growth | | | - 3,297 |

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|---|----------------------|--------------------------|-----------------------------|
| 215 | Strategic Sub & Weapons System Support | 157,679 | 167,879 | + 10,200 |
| | Program increase: Autonomous strategic force protection sensor network | | | + 2,700 |
| | Program increase: Model based engineering for strategic weapons programs | | | + 7,500 |
| 219 | F/A-18 Squadrons | 193,086 | 202,886 | + 9,800 |
| | Program increase: Navy joint air-to-ground missile for fixed wing aircraft | | | + 9,800 |
| 220 | Fleet Telecommunications (Tactical) | 25,014 | 1,344 | - 23,670 |
| | Program termination: High frequency over-the-horizon robust enterprise | | | - 23,670 |
| 223 | Integrated Surveillance System | 36,959 | 71,959 | + 35,000 |
| | Program increase: Additional TRAPS units | | | + 35,000 |
| 231 | Tactical Data Links | 104,696 | 116,696 | + 12,000 |
| | Program increase: Tactical targeting network technology acceleration | | | + 12,000 |
| 233 | MK-48 ADCAP | 94,155 | 68,255 | - 25,900 |
| | Improving funds management: TI-1 phasing | | | - 25,900 |
| 234 | Aviation Improvements | 121,805 | 138,805 | + 17,000 |
| | Program increase: Cyber Boundary Defense—portable electronic maintenance aids | | | + 2,000 |
| | Program increase: F/A-18E/F engine enhancements | | | + 15,000 |
| 243 | Advanced Medium Range Air-to-Air Missile (AMRAAM) | 32,473 | 27,473 | - 5,000 |
| | Restoring acquisition accountability: Systems improvement program acceleration and growth | | | - 5,000 |
| 258 | MQ-8 UAV | 9,843 | 24,143 | + 14,300 |
| | Program increase: Radar integration | | | + 5,500 |
| | Program increase: Weapons capability integration | | | + 8,800 |
| 266 | Depot Maintenance (Non-IF) | 36,560 | 46,560 | + 10,000 |
| | Program increase: MH-60 SLAP | | | + 10,000 |
| 267 | Maritime Technology (MARITECH) | 7,284 | 27,284 | + 20,000 |
| | Program increase: Advanced additive technologies for sustainment of Navy assets | | | + 20,000 |
| XXX | Classified Programs | 1,549,503 | 1,557,303 | + 7,800 |
| | Classified adjustment | | | + 7,800 |

Accelerated Acquisitions.—The fiscal year 2019 President’s budget request includes \$1,402,333,000, an increase of 150 percent over amounts enacted in fiscal year 2018, for programs designated as accelerated acquisitions in accordance with Chief of Naval Operations and Secretary of the Navy Instructions 5000.53 and 5000.42, respectively. The Committee supports efforts to rapidly deliver capability to the Warfighter in a responsible manner and recommends \$1,204,903,000 for these programs in fiscal year 2019.

The Committee notes ongoing efforts by the Navy to reorganize its internal processes as it relates to the alignment of requirements, acquisition strategies and budgets for accelerated acquisition programs and expects this will lead to improved coordination among all stakeholders. The Committee is concerned by repeated instances in which the designation as an accelerated acquisition program has apparently led to imprudent program management decisions affecting contracting actions and funding execution. Therefore, the Committee directs the Assistant Secretary of the Navy (Research, Development and Acquisition) and the Assistant Secretary of the Navy (Financial Management and Comptroller) to report to the congressional defense committees, not later than 30 days after enactment of this Act, on acquisition strategy management and fiscal controls in place to ensure the appropriate manage-

ment of resources for Navy accelerated acquisition programs. Further, the Assistant Secretary of the Navy (Research, Development and Acquisition) is directed to provide, with submission of the fiscal year 2020 President's budget request, to the congressional defense committees the acquisition strategy for each designated accelerated acquisition program, and the Assistant Secretary of the Navy (Financial Management and Comptroller) is directed to certify that the fiscal year 2020 President's budget fully funds such acquisition strategies, to include the associated test requirements identified in the test plan for each program, as agreed to by the Chief of Naval Operations, the Assistant Secretary of the Navy (Research, Development and Acquisition) and the Director, Operational Test and Evaluation per previous congressional direction. Finally, the Assistant Secretary of the Navy (Research, Development and Acquisition) is directed to identify to the congressional defense committees any additional training requirements levied on the acquisition workforce associated with the execution of accelerated acquisition programs.

Office of Naval Research Budget Structure.—The fiscal year 2019 President's budget request includes \$2,239,844,000 for science and technology research. The Committee recognizes the criticality of investing in Navy foundational research to ensure U.S. technical superiority in the coming decades and recommends \$2,666,744,000 for Navy science and technology research, an increase of \$426,900,000 over the budget request.

The Committee notes that the budget request proposes the consolidation of several program elements into a single, larger program element that would provide unprecedented programmatic and fiscal flexibility for advanced technology development. The Committee notes its support for the consolidation of multiple program elements and the increased flexibility associated with that realignment in previous years; however, the Committee is concerned that a further realignment of program elements would erode programmatic and fiscal transparency, and reorient foundational long-term science and technology research to near-term priorities. Therefore, the Committee rejects the proposal to consolidate multiple program elements and establish a single new program element in fiscal year 2019 and recommends retaining the existing program element budget structure for naval research. The Assistant Secretary of the Navy (Financial Management and Comptroller) is directed to follow this budget structure in future budget submissions.

Solid State Laser—Technology Maturation.—The Committee notes and supports the Navy's increased investment in several directed energy programs, to include the Solid State—Technology Maturation [SSL—TM] program, which is intended to accelerate the evaluation of the military utility of laser weapons across a range of Navy mission applications by fielding initial capabilities on surface ships. The Committee notes that since its inception, the SSL—TM program scope has expanded and development costs have tripled. Further, cost overruns have occurred at multiple program levels, and significant concurrency between the development and fielding efforts are creating further risk to cost and schedule. Therefore, the Committee directs the Government Accountability Office [GAO]

to provide to the congressional defense committees, not later than 90 days after enactment of this Act, a report reviewing the SSL-TM program. At a minimum, the report should review: (1) program requirements, including changes thereto; (2) technology readiness levels including maturity relative to requirements; (3) the current acquisition strategy and program baseline(s); (4) the SSL-TM test strategy and associated resourcing; (5) contract strategy, and (6) the program management structure.

Common Hull Auxiliary Multi-Mission Platform [CHAMP].—The fiscal year 2019 President’s budget request includes \$18,000,000 to initiate industry studies on common hull concepts and acquisition approaches to replace aging mission-specific sealift and auxiliary ships that provide hospital services, aviation support, submarine tending, command and control, or sealift. The Committee understands that CHAMP is intended to reduce life cycle costs, leverage reconfigurable force packages and stabilize the industrial base. Based on information provided by the Navy, the Committee further understands that current Navy plans for the acquisition of CHAMP could be accelerated by as much as 5 years, and therefore recommends an additional \$18,000,000 for industry studies and requirements definition. The Assistant Secretary of the Navy (Research, Development and Acquisition) is directed to provide to the congressional defense committees, with the fiscal year 2020 President’s budget, an updated acquisition strategy for CHAMP, to include requirements, acquisition milestones and cost estimates, as informed by industry studies. To stabilize the domestic shipbuilding industrial base, including the supply chain, the Committee encourages the Navy to consider the domestic sourcing requirements historically placed on sealift and auxiliary ships to CHAMP.

Future Surface Combatant.—The fiscal year 2019 President’s budget request includes \$37,267,000 in fiscal year 2019, and \$35,230,000 in fiscal year 2020 for the development of future surface combatants [FSC] requirements and an Analysis of Alternatives [AoA]. The Committee notes the extensive scope of the FSC AoA and directs the Director, Surface Warfare to submit with the fiscal year 2020 President’s budget request an updated Surface Capability Evolution Plan [SCEP] to the congressional defense committees. Further, the Assistant Secretary of the Navy (Research, Development and Acquisition) is directed to provide with the fiscal year 2020 President’s budget request the acquisition strategies for each element of the SCEP, and the Assistant Secretary of the Navy (Financial Management and Comptroller) is directed to provide the cost estimate for each element of the SCEP and to identify the funds included in the budget request in support of these acquisition strategies.

F/A-18 and EA-18G Research and Development Efforts.—The fiscal year 2019 President’s budget includes \$578,605,000 for various efforts to modernize and upgrade the F/A-18 and EA-18G, including F/A-18 Block III development which consists of 5 distinct efforts, Infrared Search and Track systems, EA-18G systems development, Multi-System Integration, physiological episode mitigation, F/A-18 radar upgrades, and F/A-18E/F service life assessment and extension programs. The Committee notes the improved briefing materials provided in support of the budget request, as requested

by the Committee, but believes that further improvement, to include timeliness in providing requested materials, could be achieved. Therefore, the Program Manager, PMA-265, is directed to provide supplemental budget materials, as previously requested by the Committee, with the budget briefing materials in support of future budget requests.

*Large Displacement Unmanned Undersea Vehicle [LDUUV].—*The fiscal year 2019 President's budget includes \$92,613,000 to initiate the fabrication of two Phase I prototype LDUUVs. Subsequent to the budget submission, the Navy informed the Committee of plans to revise its LDUUV acquisition strategy and accelerate the LDUUV program by removing Phase II from the acquisition strategy and transitioning the Phase I design to industry 5 years earlier than previously planned, which eliminates the need for Phase II funding. The Committee supports the proposed acceleration of the program; however is concerned that the revised program schedule may be unaffordable. Therefore, the Committee recommends reducing the scope of the Phase I effort and further accelerating the transition of the LDUUV design to industry. The Assistant Secretary of the Navy (Research, Development and Acquisition) is directed to provide the congressional defense committees, with the fiscal year 2020 President's budget request, an updated LDUUV acquisition strategy, and the Assistant Secretary of the Navy (Financial Management and Comptroller) is directed to provide updated cost estimates for the LDUUV program and to certify full funding in the budget request for the revised acquisition strategy.

CVN 78 Full Ship Shock Trials.—The fiscal year 2019 President's budget request includes no funds to conduct Full Ship Shock Trials [FSST] on CVN 78. The Committee notes that full-scale ship shock trials on CVN 78 were included in the original CVN 78 test plans and that the need for FSST was subsequently reaffirmed by the Director, Operational Test and Evaluation, the then-Under Secretary of Defense (Acquisition, Technology and Logistics) and Congress. The Committee notes that subsequent to the fiscal year 2019 President's budget submission, the Secretary of Defense denied a request by the Navy to waive CVN 78 FSST in accordance with section 121(b) of the Fiscal Year 2018 National Defense Authorization Act, and that the Navy now plans to conduct FSST on CVN 78, as directed. The Committee understands that this requires \$25,000,000 in fiscal year 2019 and recommends transferring those funds from other CVN programs, as delineated in the tables for Committee Recommended Adjustments for the Research, Development, Test and Evaluation, Navy and Shipbuilding and Conversion, Navy accounts. The Committee further understands that the Navy will fully budget for additional CVN 78 FSST requirements in the fiscal year 2020 President's budget request.

CVN 78 Sortie Generation Rate.—The Committee notes that the sortie generation rate [SGR] is a significant driver of the CVN 78 design. The Committee understands that the reliability of key systems may impact SGR and that the SGR demonstration schedule and execution are under review. The Program Executive Officer, Aircraft Carriers, in coordination with the Director, Operational Test and Evaluation is directed to provide, with the fiscal year 2020 President's budget request, to the congressional defense com-

mittees an updated plan for the SGR demonstration schedule and test requirements. The Assistant Secretary of the Navy (Financial Management and Comptroller) is directed to certify SGR demonstration full funding with the fiscal year 2020 President's budget request.

Extra Large Unmanned Underwater Vehicle.—The fiscal year 2019 President's budget request includes \$117,856,000 in various program elements for the development of Extra Large Unmanned Underwater Vehicles [XLUUV] and associated payloads in response to a Joint Emergent Operational Need [JEON] from U.S. Pacific Command. The Committee notes that two competitive design contracts were awarded by the Navy for Phase 1 of the program and that the Navy had planned to conduct a competitive selection for Phase 2 in 2018. Subsequent to the submission of the fiscal year 2019 President's budget request, the Navy revised its acquisition strategy and informed the Committee that the Navy now plans to award Phase 2 fabrication contracts to both vendors. The Committee understands that this requires \$25,000,000 in fiscal year 2019 above the budget request and that additional funds will be required in fiscal years 2020—2023, which the Navy will include in the fiscal year 2020 President's budget request. The Committee agrees with the revised acquisition strategy to allow for greater competition and recommends \$25,000,000 above the budget request in fiscal year 2019, as required. The Assistant Secretary of the Navy (Financial Management and Comptroller) is directed to certify, with the fiscal year 2020 President's budget request, full funding for the Navy's revised acquisition strategy.

Offensive Anti-Surface Warfare Increment I/Long Range Anti-Ship Missile Operational Test.—The Offensive Anti-Surface Warfare [OASuW] Increment I/Long Range Anti-Ship Missile [LRASM] will provide an early operational capability in 2018 in support of an Urgent Operational Needs Statement [UONS] from US. Pacific Fleet. The Committee notes that in the fiscal year 2019 President's budget request, the Navy has included \$129,400,000 in fiscal years 2019 and 2020 for OASuW Increment I/LRASM capability improvements, which the Committee fully supports. However, the Committee is concerned that the Navy has not agreed to a test plan for these capability improvements with the Director, Operational Test and Evaluation, nor budgeted for any operational test requirements.

The Committee does not agree with this approach and directs that of the funds requested in fiscal year 2019 for OASuW Increment I/LRASM capability improvements, no less than \$20,000,000 be applied toward operational test. Further, the Committee directs the Director, Operational Test and Evaluation, in coordination with the Deputy Chief of Naval Operations for Warfare Systems to provide to the congressional defense committees, with the fiscal year 2020 President's budget request, a plan for OASuW Increment I/LRASM full independent operational test [IOT&E]; the Assistant Secretary of the Navy (Research, Development and Acquisition) is directed to submit an acquisition strategy that supports that test strategy; and the Assistant Secretary of the Navy (Financial Management and Comptroller) is directed to certify that the fiscal year 2020 President's budget request for OASuW Increment I/LRASM

fully funds the development of capability improvements and the associated operational test strategy. Finally, the Committee directs that not more than \$25,000,000 may be obligated for OASuW Increment I/LRASM capability improvements in fiscal year 2019 until the Deputy Chief of Naval Operations for Warfare Systems certifies the requirements for capability improvements to the congressional defense committees.

Next Generation Jammer Low Band.—The fiscal year 2019 President's budget request includes \$99,253,000 for the Next Generation Jammer Low Band program to continue the execution of up to three Demonstration of Existing Technology [DET] contracts, which the Navy plans to award in 2018. The Committee understands that the DET contracts will inform the acquisition strategy for the program and that the Navy is considering applying certain acceleration acquisition authorities. The Assistant Secretary of the Navy (Research, Development and Acquisition) is directed to provide to the congressional defense committees, with the fiscal year 2020 President's budget request, the acquisition strategies under consideration for further development of Next Generation Jammer Low Band.

AEGIS Modernization.—The fiscal year 2019 President's budget request includes \$396,403,000 to develop modifications to the AEGIS Weapon system and integrate combat capabilities developed by the Navy and the Missile Defense Agency into the AEGIS Combat System, an increase of \$44,874,000 over amounts appropriated in fiscal year 2018. The Committee notes the improved joint briefing materials provided by the Navy and the Missile Defense Agency in support of the budget request and directs the Program Executive Officer, Integrated Warfare Systems, and the Director, Missile Defense Agency to continue to provide these materials, as subsequently modified per congressional request, in future budget briefings.

Manpower, Personnel, Training and Education Transformation Program.—The fiscal year 2019 President's budget request includes \$99,300,000 for Manpower, Personnel, Training and Education [MPT&E] transformation, an increase of \$73,200,000 over amounts appropriated for fiscal year 2018. The Committee notes progress made by the Navy in managing this program; however, the Committee also notes that the MPT&E transformation requirements, acquisition strategy and a holistic cost estimate remain to be completed. The Committee recommends \$64,300,000, an increase of \$40,100,000 over amounts appropriated in fiscal year 2018, to allow for continued program progress and directs the Assistant Secretary of the Navy (Research, Development and Acquisition) to provide with the fiscal year 2020 President's request the MPT&E acquisition strategy and the Assistant Secretary of the Navy (Financial Management and Comptroller) to provide the associated cost estimate.

Amphibious Combat Vehicle 1.2.—The fiscal year 2019 President's budget request includes \$55,800,000 for the Amphibious Combat Vehicle [ACV] 1.2 program, an increase of \$26,400,000 over amounts previously programmed for that effort for fiscal year 2019. The Committee notes the significant ACV 1.2 program concurrency with the ACV 1.1 development and production program,

to include the modification of ACV 1.1 test vehicles for ACV 1.2 developmental test. Noting the Marine Corps' historical struggles with replacing its amphibious assault vehicle fleet, the Committee is concerned with the programmatic and cost risk this strategy brings to both the ACV 1.1 and 1.2 programs. The Committee directs the Assistant Secretary of the Navy (Research, Development, and Acquisition) to submit, not later than 30 days after Milestone C for ACV 1.1, an updated cost and schedule estimate for ACV 1.2.

DDG 1000 Mission Change.—The fiscal year 2019 President's request includes \$40,852,000 in fiscal year 2019 and \$396,194,000 over the next 5 years in research, development, test and evaluation for development efforts in support of new DDG 1000 mission requirements. The Committee notes that the requirements, schedules and revised Test and Evaluation Master Plan in support of the new DDG 1000 mission are not yet complete and therefore recommends a reduction of \$21,000,000.

Hydrographic Survey System Upgrade for Diver Propulsion Devices.—The Committee understands the Marine Corps is seeking to upgrade existing diver propulsion devices [DPD] assets to enable precise navigation and autonomous hydrographic survey. The Committee encourages the Secretary of the Navy to develop an autonomous hydrographic survey capability for the DPD which provides other advanced capabilities through retrofitting of existing DPD units, and supports autonomous hydrographic survey for inspection and analysis of critical littoral waterways.

Aircraft Fleet Readiness and Sustainment.—The Committee remains concerned with the challenges faced by the Navy and Marine Corps to maintain the readiness of their air vehicle fleets, and extend the useful life of aging aircraft. The Committee notes the valuable role university research institutions can provide in conducting research and development that translates into technological capabilities to address these readiness gaps. Therefore, the Committee recommends \$10,000,000 for aircraft fleet readiness and sustainment research conducted at universities with state-of-the-art capabilities in structures and materials to support these efforts.

Advanced Hull Form Development and Demonstration.—The Committee has supported the Navy's investment in sophisticated computer hydrodynamic modeling and simulation tools for the design, testing, and analysis of high-performance and high-efficiency hull forms of small planing boats. The Committee recommends \$8,000,000 for an advanced hull form development and prototype demonstration and at-sea testing initiative to accelerate the development and transition of advanced hull designs, particularly hull forms that reduce injury to craft operators and warfighters.

Power Generation and Storage Research.—The Committee continues to support Navy investments in power generation and energy storage research, and recommends an increase of \$5,000,000 for that purpose. The Committee understands that development and deployment of lithium-ion batteries are critical to Department of Defense missions, but that safety incidents restrict their operational use. Therefore, the Committee believes that the development and qualification of materials technologies, including non-flammable electrolytes, to reduce the risk of thermal runaway and

improve safety in lithium-ion batteries should be a research priority.

Marine Corps Asset Life-Cycle Management.—The Committee supports the Marine Corps' efforts to substantially reduce costs associated with routine maintenance and recommends \$2,000,000 for further research and development in the areas of remanufacturing and vehicle behavior monitoring.

Maritime Robotics Technology.—The Committee notes the Department of the Navy investments to develop autonomous systems and capabilities in support of future naval capabilities. The Committee encourages the Navy to continue its support for the cost-effective development of maritime robotic systems, including research, testing, and demonstration of unmanned underwater vehicle security and surveillance systems, robotic inspection and survey tools for vessels and port facilities, munition retrieval, environmental monitoring, including acoustic and non-acoustic detection capability improvements, shared autonomy, adaptive decision-making, docking, 3-D imaging, power and data transfer. The Committee believes that university-based research and innovation centered on the development of maritime robotic technology could be essential in maintaining competitive advantage in the future.

Silicon Carbide Power Electronics.—The Committee supports the Navy's investment to develop advanced power and energy technology to meet requirements for higher electric power loads through efficient means. The Committee understands that use of silicon carbide power modules may reduce the size and weight of power conversion modules and other electronic systems necessary for advanced sensors and weapon systems. The Committee recommends \$5,000,000 for silicon carbide power electronics research and encourages the Secretary of the Navy to continue to invest in advanced power and energy technology and accelerate the qualification of silicon carbide power modules to be used on highpower, mission critical Navy platforms.

Improving Performance of Military Platforms.—Turbulent boundary layers form in the air or in water along the surfaces of all aircraft and marine platforms, and produce a force that opposes the motion of the vehicle. The Committee understands that mitigating such drag is central to the goals of reducing fuel consumption and optimizing performance of military platforms, such as ships, submarines, and transport and fighter aircraft. However, the Committee notes that there exists only limited domestic capability to experimentally study these phenomena. Therefore, the Committee encourages the Chief of Naval Research to examine the Navy's infrastructure and technical capabilities to experimentally quantify aircraft and marine platforms relevant turbulent boundary layers at high spatial and temporal resolution, and to address any identified gaps in experimental and modeling capabilities.

E2-D Hawkeye Advanced Radar.—The Committee recognizes the importance for the Navy to improve the airborne surveillance and battle management command and control systems of the E-2D Hawkeye to protect against sophisticated adversaries with anti-ship cruise and ballistic missiles. Therefore, the Committee recommends \$12,000,000 to continue improving the radar capability of the E-2D Hawkeye. Further, to stay ahead of the evolving threat,

the Committee directs the Deputy Chief of Naval Operations for Warfare Systems to complete a comprehensive review of the E-2D radar to determine if there are unmet requirements for an Advanced Radar that could improve airborne surveillance and battle management command and control systems of the E-2D Hawkeye, and to report to the congressional defense committees not later than 90 days after enactment of this act on the findings of such review.

Advanced Additive Technologies For Sustainment of Navy Assets.—The Committee recognizes the need to accelerate the delivery of technical capabilities to support the warfighter and to advance technologies that will modernize and sustain military systems in an efficient, cost-effective manner. The Committee recommends \$20,000,000 to support the development of advanced additive technologies for sustainment of Navy assets, including cold spray.

RESEARCH, DEVELOPMENT, TEST AND EVALUATION, AIR FORCE

| | |
|--------------------------------|------------------|
| Appropriations, 2018 | \$37,428,078,000 |
| Budget estimate, 2019 | 40,178,343,000 |
| Committee recommendation | 40,896,667,000 |

The Committee recommends an appropriation of \$40,896,667,000. This is \$718,324,000 above the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table summarizes the budget estimate for this appropriation, the Committee recommendation, and the Committee recommended adjustments to the budget estimate:

(In thousands of dollars)

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|---|----------------------|--------------------------|-----------------------------|
| | RESEARCH, DEVELOPMENT, TEST & EVAL, AIR FORCE | | | |
| | BASIC RESEARCH | | | |
| 1 | DEFENSE RESEARCH SCIENCES | 348,322 | 448,322 | + 100,000 |
| 2 | UNIVERSITY RESEARCH INITIATIVES | 154,991 | 179,991 | + 25,000 |
| 3 | HIGH ENERGY LASER RESEARCH INITIATIVES | 14,506 | 14,506 | ..... |
| | TOTAL, BASIC RESEARCH | 517,819 | 642,819 | + 125,000 |
| | APPLIED RESEARCH | | | |
| 4 | MATERIALS | 125,373 | 161,373 | + 36,000 |
| 5 | AEROSPACE VEHICLE TECHNOLOGIES | 130,547 | 147,047 | + 16,500 |
| 6 | HUMAN EFFECTIVENESS APPLIED RESEARCH | 112,518 | 114,018 | + 1,500 |
| 7 | AEROSPACE PROPULSION | 190,919 | 230,419 | + 39,500 |
| 8 | AEROSPACE SENSORS | 166,534 | 171,534 | + 5,000 |
| 9 | SCIENCE AND TECHNOLOGY MANAGEMENT—MAJOR HEAD- QUARTERS | 8,288 | 8,288 | ..... |
| 11 | CONVENTIONAL MUNITIONS | 112,841 | 112,841 | ..... |
| 12 | DIRECTED ENERGY TECHNOLOGY | 141,898 | 141,898 | ..... |
| 13 | DOMINANT INFORMATION SCIENCES AND METHODS | 162,420 | 175,420 | + 13,000 |
| 14 | HIGH ENERGY LASER RESEARCH | 43,359 | 45,859 | + 2,500 |
| 15 | SPACE TECHNOLOGY | 117,645 | 121,645 | + 4,000 |
| | TOTAL, APPLIED RESEARCH | 1,312,342 | 1,430,342 | + 118,000 |
| | ADVANCED TECHNOLOGY DEVELOPMENT | | | |
| 16 | ADVANCED MATERIALS FOR WEAPON SYSTEMS | 34,426 | 42,926 | + 8,500 |
| 17 | SUSTAINMENT SCIENCE AND TECHNOLOGY (S&T) | 15,150 | 15,150 | ..... |
| 18 | ADVANCED AEROSPACE SENSORS | 39,968 | 44,968 | + 5,000 |
| 19 | AEROSPACE TECHNOLOGY DEV/DEMO | 121,002 | 126,002 | + 5,000 |

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|---|----------------------|--------------------------|-----------------------------|
| 20 | AEROSPACE PROPULSION AND POWER TECHNOLOGY | 115,462 | 141,462 | + 26,000 |
| 21 | ELECTRONIC COMBAT TECHNOLOGY | 55,319 | 55,319 | ..... |
| 22 | ADVANCED SPACECRAFT TECHNOLOGY | 54,895 | 70,895 | + 16,000 |
| 23 | MAUI SPACE SURVEILLANCE SYSTEM [MSSS] | 10,674 | 10,674 | ..... |
| 24 | HUMAN EFFECTIVENESS ADVANCED TECHNOLOGY DEVELOPMENT | 36,463 | 36,463 | ..... |
| 25 | CONVENTIONAL WEAPONS TECHNOLOGY | 194,981 | 204,981 | + 10,000 |
| 26 | ADVANCED WEAPONS TECHNOLOGY | 43,368 | 53,368 | + 10,000 |
| 27 | MANUFACTURING TECHNOLOGY PROGRAM | 42,025 | 65,825 | + 23,800 |
| 28 | BATTLESPACE KNOWLEDGE DEVELOPMENT & DEMONSTRATION .. | 51,064 | 51,064 | ..... |
| | TOTAL, ADVANCED TECHNOLOGY DEVELOPMENT | 814,797 | 919,097 | + 104,300 |
| | ADVANCED COMPONENT DEVELOPMENT | | | |
| 30 | INTELLIGENCE ADVANCED DEVELOPMENT | 5,568 | 5,568 | ..... |
| 32 | COMBAT IDENTIFICATION TECHNOLOGY | 18,194 | 18,194 | ..... |
| 33 | NATO RESEARCH AND DEVELOPMENT | 2,305 | 2,305 | ..... |
| 35 | INTERCONTINENTAL BALLISTIC MISSILE | 41,856 | 41,856 | ..... |
| 36 | POLLUTION PREVENTION—DEM/VAL ..... | ..... | 200 | + 200 |
| 37 | LONG RANGE STRIKE | 2,314,196 | 2,276,496 | − 37,700 |
| 38 | INTEGRATED AVIONICS PLANNING AND DEVELOPMENT | 14,894 | 81,271 | + 66,377 |
| 39 | ADVANCED TECHNOLOGY AND SENSORS | 34,585 | 34,585 | ..... |
| 40 | NATIONAL AIRBORNE OPS CENTER [NAOC] RECAP | 9,740 | 7,440 | − 2,300 |
| 41 | TECHNOLOGY TRANSFER | 12,960 | 16,960 | + 4,000 |
| 42 | HARD AND DEEPLY BURIED TARGET DEFEAT SYSTEM | 71,501 | 32,501 | − 39,000 |
| 43 | CYBER RESILIENCY OF WEAPON SYSTEMS—ACS | 62,618 | 62,618 | ..... |
| 46 | DEPLOYMENT AND DISTRIBUTION ENTERPRISE R&D | 28,350 | 28,350 | ..... |
| 48 | TECH TRANSITION PROGRAM | 1,186,075 | 195,462 | − 990,613 |
| 48A | ADVANCED ENGINE DEVELOPMENT ..... | ..... | 651,355 | + 651,355 |
| 48B | HYPERSONICS PROTOTYPING ..... | ..... | 558,058 | + 558,058 |
| 48C | DIRECTED ENERGY PROTOTYPING ..... | ..... | 150,000 | + 150,000 |
| 49 | GROUND BASED STRATEGIC DETERRENT | 345,041 | 345,041 | ..... |
| 50 | NEXT GENERATION AIR DOMINANCE | 503,997 | 392,997 | − 111,000 |
| 51 | THREE DIMENSIONAL LONG-RANGE RADAR | 40,326 | 25,426 | − 14,900 |
| 52 | UNIFIED PLATFORM (UP) | 29,800 | 29,800 | ..... |
| 54 | COMMON DATA LINK EXECUTIVE AGENT (CDL EA) | 41,880 | 41,880 | ..... |
| 55 | MISSION PARTNER ENVIRONMENTS | 10,074 | 10,074 | ..... |
| 56 | CYBER OPERATIONS TECHNOLOGY DEVELOPMENT | 253,825 | 253,825 | ..... |
| 57 | ENABLED CYBER ACTIVITIES | 16,325 | 16,325 | ..... |
| 59 | CONTRACTING INFORMATION TECHNOLOGY SYSTEM | 17,577 | 17,577 | ..... |
| 60 | NAVSTAR GLOBAL POSITIONING SYSTEM (USER EQUIPMENT) (SPACE) | 286,629 | 256,629 | − 30,000 |
| 61 | EO/IR WEATHER SYSTEMS | 7,940 | 7,940 | ..... |
| 62 | WEATHER SYSTEM FOLLOW-ON | 138,052 | 138,052 | ..... |
| 63 | SPACE SITUATION AWARENESS SYSTEMS | 39,338 | 29,338 | − 10,000 |
| 64 | MIDTERM POLAR MILSATCOM SYSTEM | 383,113 | 383,113 | ..... |
| 65 | SPACE CONTROL TECHNOLOGY | 91,018 | 76,018 | − 15,000 |
| 66 | SPACE SECURITY AND DEFENSE PROGRAM | 45,542 | 45,542 | ..... |
| 67 | PROTECTED TACTICAL ENTERPRISE SERVICE (PTES) | 51,419 | 46,419 | − 5,000 |
| 68 | PROTECTED TACTICAL SERVICE (PTS) | 29,776 | 29,776 | ..... |
| 69 | PROTECTED SATCOM SERVICES (PSCS)—AGGREGATED | 29,379 | 29,379 | ..... |
| 70 | OPERATIONALLY RESPONSIVE SPACE | 366,050 | 371,050 | + 5,000 |
| | TOTAL, ADVANCED COMPONENT DEVELOPMENT | 6,529,943 | 6,709,420 | + 179,477 |
| | ENGINEERING & MANUFACTURING DEVELOPMENT | | | |
| 71 | FUTURE ADVANCED WEAPON ANALYSIS & PROGRAMS | 39,602 | 39,602 | ..... |
| 72 | INTEGRATED AVIONICS PLANNING AND DEVELOPMENT | 58,531 | 58,531 | ..... |
| 73 | NUCLEAR WEAPONS SUPPORT | 4,468 | 4,468 | ..... |
| 74 | ELECTRONIC WARFARE DEVELOPMENT | 1,909 | 1,909 | ..... |
| 75 | TACTICAL DATA NETWORKS ENTERPRISE | 207,746 | 257,746 | + 50,000 |
| 76 | PHYSICAL SECURITY EQUIPMENT | 14,421 | 14,421 | ..... |
| 74 | SMALL DIAMETER BOMB [SDB] | 73,158 | 78,158 | + 5,000 |
| 81 | AIRBORNE ELECTRONIC ATTACK | 7,153 | 7,153 | ..... |
| 83 | ARMAMENT/ORDNANCE DEVELOPMENT | 58,590 | 58,590 | ..... |
| 84 | SUBMUNITIONS | 2,990 | 2,990 | ..... |

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|---|----------------------|--------------------------|-----------------------------|
| 85 | AGILE COMBAT SUPPORT | 20,028 | 23,528 | + 3,500 |
| 86 | JOINT DIRECT ATTACK MUNITION | 15,787 | ..... | - 15,787 |
| 87 | LIFE SUPPORT SYSTEMS | 8,919 | 8,919 | ..... |
| 88 | COMBAT TRAINING RANGES | 35,895 | 43,895 | + 8,000 |
| 89 | F-35—EMD | 69,001 | 69,001 | ..... |
| 91 | LONG RANGE STANDOFF WEAPON | 614,920 | 624,920 | + 10,000 |
| 92 | ICBM FUZE MODERNIZATION | 172,902 | 172,902 | ..... |
| 97 | KC-46 | 88,170 | 80,170 | - 8,000 |
| 98 | ADVANCED PILOT TRAINING | 265,465 | 265,465 | ..... |
| 99 | COMBAT RESCUE HELICOPTER | 457,652 | 384,652 | - 73,000 |
| 105 | ACQUISITION WORKFORCE—GLOBAL BATTLE MANAGEMENT | 3,617 | 3,617 | ..... |
| 106 | B-2 DEFENSIVE MANAGEMENT SYSTEM | 261,758 | 261,758 | ..... |
| 107 | NUCLEAR WEAPONS MODERNIZATION | 91,907 | 84,907 | - 7,000 |
| 108 | F-15 EPAWSS | 137,095 | 137,095 | ..... |
| 109 | STAND IN ATTACK WEAPON | 43,175 | 14,975 | - 28,200 |
| 110 | ADVANCED COMMUNICATIONS SYSTEMS | 14,888 | 14,888 | ..... |
| 111 | FULL COMBAT MISSION TRAINING | 1,015 | 1,015 | ..... |
| 112 | NEXTGEN JSTARS ..... | ..... | 30,000 | + 30,000 |
| 116 | C-32 EXECUTIVE TRANSPORT RECAPITALIZATION | 7,943 | 7,943 | ..... |
| 117 | PRESIDENTIAL AIRCRAFT REPLACEMENT | 673,032 | 616,372 | - 56,660 |
| 118 | AUTOMATED TEST SYSTEMS | 13,653 | 13,653 | ..... |
| 119 | COMBAT SURVIVOR EVADER LOCATOR | 939 | 939 | ..... |
| 120 | GPS IIIC | 451,889 | 401,889 | - 50,000 |
| 121 | SPACE SITUATION AWARENESS OPERATIONS | 46,668 | 46,668 | ..... |
| 122 | COUNTERSPACE SYSTEMS | 20,676 | 20,676 | ..... |
| 123 | SPACE SITUATION AWARENESS SYSTEMS | 134,463 | 134,463 | ..... |
| 124 | SPACE FENCE | 20,215 | 20,215 | ..... |
| 125 | ADVANCED EHF MILSATCOM (SPACE) | 151,506 | 151,506 | ..... |
| 126 | POLAR MILSATCOM (SPACE) | 27,337 | 27,337 | ..... |
| 127 | WIDEBAND GLOBAL SATCOM (SPACE) | 3,970 | 53,470 | + 49,500 |
| 128 | SPACE BASED INFRARED SYSTEM (SBIRS) HIGH EMD | 60,565 | 60,565 | ..... |
| 129 | NEXT-GEN OPIR | 643,126 | 743,126 | + 100,000 |
| 130 | EVOLVED EXPENDABLE LAUNCH VEHICLE PROGRAM (SPACE)—EMD | 245,447 | 445,447 | + 200,000 |
| | TOTAL, ENGINEERING & MANUFACTURING DEVELOPMENT | 5,272,191 | 5,489,544 | + 217,353 |
| | RDT&E MANAGEMENT SUPPORT | | | |
| 131 | THREAT SIMULATOR DEVELOPMENT | 34,256 | 34,256 | ..... |
| 132 | MAJOR T&E INVESTMENT | 91,844 | 266,844 | + 175,000 |
| 133 | RAND PROJECT AIR FORCE | 34,614 | 34,614 | ..... |
| 135 | INITIAL OPERATIONAL TEST & EVALUATION | 18,043 | 18,043 | ..... |
| 136 | TEST AND EVALUATION SUPPORT | 692,784 | 697,784 | + 5,000 |
| 137 | ACQ WORKFORCE—GLOBAL POWER | 233,924 | 226,075 | - 7,849 |
| 138 | ACQ WORKFORCE—GLOBAL VIG & COMBAT SYS | 263,488 | 243,853 | - 19,635 |
| 139 | ACQ WORKFORCE—GLOBAL REACH | 153,591 | 145,230 | - 8,361 |
| 140 | ACQ WORKFORCE—CYBER, NETWORK, & BUS SYS | 232,315 | 217,900 | - 14,415 |
| 141 | ACQ WORKFORCE—GLOBAL BATTLE MGMT | 169,868 | 157,472 | - 12,396 |
| 142 | ACQ WORKFORCE—CAPABILITY INTEGRATION | 226,219 | 221,126 | - 5,093 |
| 143 | ACQ WORKFORCE—ADVANCED PRGM TECHNOLOGY | 38,400 | 32,796 | - 5,604 |
| 144 | ACQ WORKFORCE—NUCLEAR SYSTEMS | 125,761 | 123,175 | - 2,586 |
| 147 | MANAGEMENT HQ—R&D | 10,642 | 9,815 | - 827 |
| 148 | FACILITIES RESTORATION & MODERNIZATION—TEST & EVAL | 162,216 | 262,216 | + 100,000 |
| 149 | FACILITIES SUSTAINMENT—TEST AND EVALUATION SUPPORT | 28,888 | 28,888 | ..... |
| 150 | REQUIREMENTS ANALYSIS AND MATURATION | 35,285 | 48,285 | + 13,000 |
| 153 | ENTERPRISE INFORMATION SERVICES (EIS) | 20,545 | 20,545 | ..... |
| 154 | ACQUISITION AND MANAGEMENT SUPPORT | 12,367 | 12,367 | ..... |
| 155 | GENERAL SKILL TRAINING | 1,448 | 1,448 | ..... |
| 157 | INTERNATIONAL ACTIVITIES | 3,998 | 3,998 | ..... |
| 158 | SPACE TEST AND TRAINING RANGE DEVELOPMENT | 23,254 | 23,254 | ..... |
| 159 | SPACE AND MISSILE CENTER (SMC) CIVILIAN WORKFORCE | 169,912 | 169,912 | ..... |
| 160 | SPACE & MISSILE SYSTEMS CENTER—MHA | 10,508 | 10,508 | ..... |
| 161 | ROCKET SYSTEMS LAUNCH PROGRAM (SPACE) | 19,721 | 19,721 | ..... |

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|---|----------------------|--------------------------|-----------------------------|
| 162 | SPACE TEST PROGRAM (STP) | 25,620 | 25,620 | ..... |
| | TOTAL, RDT&E MANAGEMENT SUPPORT | 2,839,511 | 3,055,745 | + 216,234 |
| | OPERATIONAL SYSTEMS DEVELOPMENT | | | |
| 165 | SPECIALIZED UNDERGRADUATE FLIGHT TRAINING | 11,344 | 11,344 | ..... |
| 167 | AIR FORCE INTEGRATED MILITARY HUMAN RESOURCES SYSTEM | 47,287 | 41,102 | - 6,185 |
| 168 | ANTI-TAMPER TECHNOLOGY EXECUTIVE AGENCY | 32,770 | 32,770 | ..... |
| 169 | FOREIGN MATERIEL ACQUISITION AND EXPLOITATION | 68,368 | 68,368 | ..... |
| 170 | HC/MC-130 RECAP RDT&E | 32,574 | 32,574 | ..... |
| 171 | NC3 INTEGRATION | 26,112 | 19,312 | - 6,800 |
| 172 | ASSESSMENTS AND EVALUATIONS CYBER VULNERABILITIES | 99,100 | 75,950 | - 23,150 |
| 173 | B-52 SQUADRONS | 280,414 | 329,173 | + 48,759 |
| 174 | AIR-LAUNCHED CRUISE MISSILE [ALCM] | 5,955 | 5,955 | ..... |
| 175 | B-1B SQUADRONS | 76,030 | 63,230 | - 12,800 |
| 176 | B-2 SQUADRONS | 105,561 | 105,561 | ..... |
| 177 | MINUTEMAN SQUADRONS | 156,047 | 156,047 | ..... |
| 179 | WORLDWIDE JOINT STRATEGIC COMMUNICATIONS | 10,442 | 18,442 | + 8,000 |
| 180 | INTEGRATED STRATEGIC PLANNING & ANALYSIS NETWORK | 22,833 | 22,833 | ..... |
| 181 | ICBM REENTRY VEHICLES | 18,412 | 18,412 | ..... |
| 183 | UH-1N REPLACEMENT PROGRAM | 288,022 | 288,022 | ..... |
| 184 | REGION/SECTOR OPERATION CONTROL CENTER MODERNIZATION | 9,252 | 9,252 | ..... |
| 186 | MQ-9 UAV | 115,345 | 115,345 | ..... |
| 188 | A-10 SQUADRONS | 26,738 | 26,738 | ..... |
| 189 | F-16 SQUADRONS | 191,564 | 185,864 | - 5,700 |
| 190 | F-15E SQUADRONS | 192,883 | 176,483 | - 16,400 |
| 191 | MANNED DESTRUCTIVE SUPPRESSION | 15,238 | 15,238 | ..... |
| 192 | F-22 SQUADRONS | 603,553 | 588,453 | - 15,100 |
| 193 | F-35 SQUADRONS | 549,501 | 428,315 | - 121,186 |
| 194 | TACTICAL AIM MISSILES | 37,230 | 37,230 | ..... |
| 195 | ADVANCED MEDIUM RANGE AIR-TO-AIR MISSILE (AMRAAM) | 61,393 | 51,293 | - 10,100 |
| 196 | COMBAT RESCUE-PARARESCUE | 647 | 647 | ..... |
| 198 | PRECISION ATTACK SYSTEMS PROCUREMENT | 14,891 | 14,891 | ..... |
| 199 | COMPASS CALL | 13,901 | 13,901 | ..... |
| 200 | AIRCRAFT ENGINE COMPONENT IMPROVEMENT PROGRAM | 121,203 | 121,203 | ..... |
| 202 | JOINT AIR-TO-SURFACE STANDOFF MISSILE [JASSM] | 60,062 | 42,472 | - 17,590 |
| 203 | AIR AND SPACE OPERATIONS CENTER [AOC] | 106,102 | 106,102 | ..... |
| 204 | CONTROL AND REPORTING CENTER [CRC] | 6,413 | 10,413 | + 4,000 |
| 205 | AIRBORNE WARNING AND CONTROL SYSTEM [AWACS] | 120,664 | 130,664 | + 10,000 |
| 206 | TACTICAL AIRBORNE CONTROL SYSTEMS | 2,659 | 2,659 | ..... |
| 208 | COMBAT AIR INTELLIGENCE SYSTEM ACTIVITIES | 10,316 | 10,316 | ..... |
| 209 | TACTICAL AIR CONTROL PARTY-MOD | 6,149 | 6,149 | ..... |
| 210 | C2ISR TACTICAL DATA LINK | 1,738 | 1,738 | ..... |
| 211 | DCAPES | 13,297 | 13,297 | ..... |
| 212 | NATIONAL TECHNICAL NUCLEAR FORENSICS | 1,788 | 1,788 | ..... |
| 213 | JOINT SURVEILLANCE/TARGETATTACK RADAR SYSTEM [JSTARS] .. | 14,888 | ..... | - 14,888 |
| 214 | SEEK EAGLE | 24,699 | 24,699 | ..... |
| 215 | USAF MODELING AND SIMULATION | 17,078 | 17,078 | ..... |
| 216 | WARGAMING AND SIMULATION CENTERS | 6,141 | 6,141 | ..... |
| 218 | DISTRIBUTED TRAINING AND EXERCISES | 4,225 | 4,225 | ..... |
| 219 | MISSION PLANNING SYSTEMS | 63,653 | 63,653 | ..... |
| 220 | TACTICAL DECEPTION | 6,949 | 6,949 | ..... |
| 221 | AF OFFENSIVE CYBERSPACE OPERATIONS | 40,526 | 40,526 | ..... |
| 222 | AF DEFENSIVE CYBERSPACE OPERATIONS | 24,166 | 39,166 | + 15,000 |
| 223 | JOINT CYBER COMMAND AND CONTROL [JCC2] | 13,000 | 13,000 | ..... |
| 224 | UNIFIED PLATFORM (UP) | 28,759 | 21,559 | - 7,200 |
| 229 | GLOBAL SENSOR INTEGRATED ON NETWORK (GSIN) | 3,579 | 3,579 | ..... |
| 230 | NUCLEAR PLANNING AND EXECUTION SYSTEM (NPES) | 29,620 | 29,620 | ..... |
| 237 | AIR FORCE SPACE AND CYBER NON-TRADITIONAL ISR FOR BATTLESPACE AWARENESS | 6,633 | 6,633 | ..... |
| 238 | E-4B NATIONAL AIRBORNE OPERATIONS CENTER [NAOC] | 57,758 | 57,758 | ..... |
| 240 | MINIMUM ESSENTIAL EMERGENCY COMMUNICATIONS NETWORK | 99,088 | 67,088 | - 32,000 |
| 241 | HIGH FREQUENCY RADIO SYSTEMS | 51,612 | 51,612 | ..... |
| 242 | INFORMATION SYSTEMS SECURITY PROGRAM | 34,612 | 34,612 | ..... |

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|--|----------------------|--------------------------|-----------------------------|
| 244 | GLOBAL FORCE MANAGEMENT—DATA INITIATIVE | 2,170 | 2,170 | ..... |
| 246 | AIRBORNE SIGINT ENTERPRISE | 106,873 | 109,873 | + 3,000 |
| 247 | COMMERCIAL ECONOMIC ANALYSIS | 3,472 | 3,472 | ..... |
| 250 | C2 AIR OPERATIONS SUITE—C2 INFO SERVICES | 8,608 | 8,608 | ..... |
| 251 | CCMD INTELLIGENCE INFORMATION TECHNOLOGY | 1,586 | 1,586 | ..... |
| 252 | GLOBAL AIR TRAFFIC MANAGEMENT (GATM) | 4,492 | 4,492 | ..... |
| 254 | WEATHER SERVICE | 26,942 | 31,942 | + 5,000 |
| 255 | AIR TRAFFIC CONTROL, APPROACH, & LANDING SYSTEM (ATC) .. | 6,271 | 11,271 | + 5,000 |
| 256 | AERIAL TARGETS | 8,383 | 8,383 | ..... |
| 259 | SECURITY AND INVESTIGATIVE ACTIVITIES | 418 | 418 | ..... |
| 261 | DEFENSE JOINT COUNTERINTELLIGENCE ACTIVITIES | 3,845 | 3,845 | ..... |
| 268 | DRAGON U-2 | 48,518 | 58,518 | + 10,000 |
| 269 | ENDURANCE UNMANNED AERIAL VEHICLES ..... | ..... | 15,000 | + 15,000 |
| 270 | AIRBORNE RECONNAISSANCE SYSTEMS | 175,334 | 175,334 | ..... |
| 271 | MANNED RECONNAISSANCE SYSTEMS | 14,223 | 14,223 | ..... |
| 272 | DISTRIBUTED COMMON GROUND/SURFACE SYSTEMS | 24,554 | 24,554 | ..... |
| 273 | RQ-4 UAV | 221,690 | 221,690 | ..... |
| 274 | NETWORK-CENTRIC COLLABORATIVE TARGET (TIARA) | 14,288 | 14,288 | ..... |
| 275 | NATO AGS | 51,527 | 51,527 | ..... |
| 276 | SUPPORT TO DCGS ENTERPRISE | 26,579 | 26,579 | ..... |
| 278 | INTERNATIONAL INTELLIGENCE TECHNOLOGY AND ARCHITECTURES | 8,464 | 8,464 | ..... |
| 280 | RAPID CYBER ACQUISITION | 4,303 | 4,303 | ..... |
| 284 | PERSONNEL RECOVERY COMMAND & CTRL (PRC2) | 2,466 | 2,466 | ..... |
| 285 | INTELLIGENCE MISSION DATA (IMD) | 4,117 | 4,117 | ..... |
| 287 | C-130 AIRLIFT SQUADRON | 105,988 | 105,988 | ..... |
| 288 | C-5 AIRLIFT SQUADRONS | 25,071 | 25,071 | ..... |
| 289 | C-17 AIRCRAFT | 48,299 | 48,299 | ..... |
| 290 | C-130J PROGRAM | 15,409 | 15,409 | ..... |
| 291 | LARGE AIRCRAFT IR COUNTERMEASURES (LAIRCM) | 4,334 | 4,334 | ..... |
| 292 | KC-135S | 3,493 | 3,493 | ..... |
| 293 | KC-10S | 6,569 | 6,569 | ..... |
| 294 | OPERATIONAL SUPPORT AIRLIFT | 3,172 | 3,172 | ..... |
| 295 | CV-22 | 18,502 | 18,502 | ..... |
| 296 | AMC COMMAND AND CONTROL SYSTEM | 1,688 | 1,688 | ..... |
| 297 | SPECIAL TACTICS / COMBAT CONTROL | 2,541 | 2,541 | ..... |
| 298 | DEPOT MAINTENANCE (NON-IF) | 1,897 | 1,897 | ..... |
| 299 | MAINTENANCE, REPAIR & OVERHAUL SYSTEM | 50,933 | 50,933 | ..... |
| 300 | LOGISTICS INFORMATION TECHNOLOGY (LOGIT) | 13,787 | 13,787 | ..... |
| 301 | SUPPORT SYSTEMS DEVELOPMENT | 4,497 | 4,497 | ..... |
| 302 | OTHER FLIGHT TRAINING | 2,022 | 2,022 | ..... |
| 303 | OTHER PERSONNEL ACTIVITIES | 108 | 108 | ..... |
| 304 | JOINT PERSONNEL RECOVERY AGENCY | 2,023 | 2,023 | ..... |
| 305 | CIVILIAN COMPENSATION PROGRAM | 3,772 | 3,772 | ..... |
| 306 | PERSONNEL ADMINISTRATION | 6,358 | 6,358 | ..... |
| 307 | AIR FORCE STUDIES AND ANALYSIS AGENCY | 1,418 | 1,418 | ..... |
| 308 | FINANCIAL MANAGEMENT INFORMATION SYSTEMS DEVELOPMENT | 99,734 | 93,834 | - 5,900 |
| 309 | SERVICE SUPPORT TO STRATCOM—SPACE ACTIVITIES | 14,161 | 14,161 | ..... |
| 310 | AF TENCAP | 26,986 | 26,986 | ..... |
| 311 | FAMILY OF ADVANCED BLOS TERMINALS (FAB-T) | 80,168 | 60,168 | - 20,000 |
| 312 | SATELLITE CONTROL NETWORK (SPACE) | 17,808 | 27,808 | + 10,000 |
| 314 | NAVSTAR GLOBAL POSITIONING SYSTEM (SPACE AND CONTROL SEGMENTS) | 8,937 | 8,937 | ..... |
| 315 | SPACE AND MISSILE TEST AND EVALUATION CENTER | 59,935 | 59,935 | ..... |
| 316 | SPACE INNOVATION, INTEGRATION AND RAPID TECHNOLOGY DEVELOPMENT | 21,019 | 21,019 | ..... |
| 317 | INTEGRATED BROADCAST SERVICE (IBS) | 8,568 | 8,568 | ..... |
| 318 | SPACELIFT RANGE SYSTEM (SPACE) | 10,641 | 20,641 | + 10,000 |
| 319 | GPS III SPACE SEGMENT | 144,543 | 144,543 | ..... |
| 320 | SPACE SUPERIORITY INTELLIGENCE | 16,278 | 16,278 | ..... |
| 321 | JSPOC MISSION SYSTEM | 72,256 | 72,256 | ..... |
| 322 | NATIONAL SPACE DEFENSE CENTER | 42,209 | 42,209 | ..... |
| 325 | NUDET DETECTION SYSTEM (SPACE) | 19,778 | 19,778 | ..... |
| 326 | SPACE SITUATION AWARENESS OPERATIONS | 19,572 | 19,572 | ..... |

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|---|----------------------|--------------------------|-----------------------------|
| 327 | GLOBAL POSITIONING SYSTEM III—OPERATIONAL CONTROL SEGMENT | 513,235 | 513,235 | ..... |
| | TOTAL, OPERATIONAL SYSTEMS DEVELOPMENT | 6,357,616 | 6,186,376 | - 171,240 |
| 9999 | CLASSIFIED PROGRAMS | 16,534,124 | 16,463,324 | - 70,800 |
| | TOTAL, RESEARCH, DEVELOPMENT, TEST & EVAL, AIR FORCE | 40,178,343 | 40,896,667 | + 718,324 |

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|---|----------------------|--------------------------|-----------------------------|
| 1 | Defense Research Sciences | 348,322 | 448,322 | 100,000 |
| | Basic research program increase | | | + 100,000 |
| 2 | University Research Initiatives | 154,991 | 179,991 | 25,000 |
| | Basic research program increase | | | + 25,000 |
| 4 | Materials | 125,373 | 161,373 | 36,000 |
| | Program increase: Certification of advanced composites | | | + 15,000 |
| | Program increase: Coating technologies | | | + 10,000 |
| | Program increase: High performance materials | | | + 8,000 |
| | Program increase: Turbine airfoil demonstration | | | + 3,000 |
| 5 | Aerospace Vehicle Technologies | 130,547 | 147,047 | 16,500 |
| | Program increase: Human-machine teaming | | | + 4,000 |
| | Program increase: Hypersonic wind tunnels | | | + 5,000 |
| | Program increase: Hypersonic vehicle structures | | | + 7,500 |
| 6 | Human Effectiveness Applied Research | 112,518 | 114,018 | 1,500 |
| | Program increase: Warfighter physiology program | | | + 1,500 |
| 7 | Aerospace Propulsion | 190,919 | 230,419 | 39,500 |
| | Program increase: Thermal management technologies | | | + 6,000 |
| | Program increase: Centers of excellence | | | + 5,000 |
| | Program increase: Next generation hall thrusters | | | + 10,000 |
| | Program increase: Next generation heat exchangers | | | + 6,500 |
| | Program Increase: MADDIE—modular arrays for energy | | | + 12,000 |
| 8 | Aerospace Sensors | 166,534 | 171,534 | 5,000 |
| | Program increase: Air Force Minority Leaders Program | | | + 5,000 |
| 13 | Dominant Information Sciences and Methods | 162,420 | 175,420 | 13,000 |
| | Program increase: Cyber testbed for unidentified c-UAS | | | + 5,500 |
| | Program increase: Quantum computing CoE | | | + 7,500 |
| 14 | High Energy Laser Research | 43,359 | 45,859 | 2,500 |
| | Program increase: Directed energy research | | | + 2,500 |
| 15 | Space Technology | 117,645 | 121,645 | 4,000 |
| | Program increase: Advanced materials and process for magnetic graphene memory systems | | | + 4,000 |
| 16 | Advanced Materials for Weapon Systems | 34,426 | 42,926 | 8,500 |
| | Program increase: Metals affordability research | | | + 8,500 |
| 18 | Advanced Aerospace Sensors | 39,968 | 44,968 | 5,000 |
| | Program increase: Sensor integration | | | + 5,000 |
| 19 | Aerospace Technology Dev/Demo | 121,002 | 126,002 | 5,000 |
| | Program increase: Aircraft winglets and drag reduction devices | | | + 5,000 |
| 20 | Aerospace Propulsion and Power Technology | 115,462 | 141,462 | 26,000 |
| | Program increase: Chemical apogee engines | | | + 2,500 |

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|---|----------------------|--------------------------|-----------------------------|
| | Program increase: Upper stage engine maturation .. | | | + 8,500 |
| | Program increase: Silicon carbide research | | | + 15,000 |
| 22 | Advanced Spacecraft Technology | 54,895 | 70,895 | 16,000 |
| | Program increase: Radiation hardened microelec- tronic processors | | | + 6,000 |
| | Program increase: Space laser communications sys- tems | | | + 10,000 |
| 25 | Conventional Weapons Technology | 194,981 | 204,981 | 10,000 |
| | Program increase: Rotary launcher development | | | + 10,000 |
| 26 | Advanced Weapons Technology | 43,368 | 53,368 | 10,000 |
| | Program increase: Demonstrator laser weapon sys- tem | | | + 10,000 |
| 27 | Manufacturing Technology Program | 42,025 | 65,825 | 23,800 |
| | Program increase: F-35 battery technology | | | + 9,800 |
| | Program increase: Materials development research | | | + 10,000 |
| | Program increase: Modeling technology for small turbine engines | | | + 4,000 |
| 36 | Pollution Prevention—Dem/Val | | 200 | 200 |
| | Program increase: Alternative energy aircraft tugs .. | | | + 200 |
| 37 | Long Range Strike—Bomber | 2,314,196 | 2,276,496 | - 37,700 |
| | Classified adjustment | | | - 37,700 |
| 38 | Integrated Avionics Planning and Development | 14,894 | 81,271 | 66,377 |
| | Transfer: Air Force requested from RDTE lines 42, 86, and 202 | | | + 66,377 |
| 40 | National Airborne Ops Center (NAOC) Recap | 9,740 | 7,440 | - 2,300 |
| | Restoring acquisition accountability: Materiel solu- tion analysis funding early to need | | | - 2,300 |
| 41 | Technology Transfer | 12,960 | 16,960 | 4,000 |
| | Program increase: Technology partnerships | | | + 4,000 |
| 42 | Hard and Deeply Buried Target Defeat System (HDBTDS) Program | 71,501 | 32,501 | - 39,000 |
| | Transfer: Air Force requested to RDTE line 38 | | | - 33,000 |
| | Restoring acquisition accountability: Advanced 5,000 pound penetrator test and evaluation funding early to need | | | - 6,000 |
| 48 | Tech Transition Program | 1,186,075 | 195,462 | - 990,613 |
| | Transfer to lines 48a and 48b | | | - 1,048,413 |
| | Program increase: Alternative energy research | | | + 5,000 |
| | Program increase: Rapid sustainment initiative | | | + 42,800 |
| | Program increase: Technology transition initiatives | | | + 10,000 |
| 48a | Advanced Engine Development | | 651,355 | + 651,355 |
| | Transfer from line 48 | | | + 790,355 |
| | Maintain program affordability: Unjustified growth in Adaptive Engine Transition Program | | | - 139,000 |
| 48b | Hypersonics Prototyping | | 558,058 | 558,058 |
| | Transfer from line 48 | | | + 258,058 |
| | Program increase: Air-launched rapid response weapon | | | + 79,700 |
| | Program increase: Hypersonic conventional strike weapon | | | + 220,300 |
| 48c | Directed Energy Prototyping | | 150,000 | 150,000 |
| | Program increase: Directed energy prototyping | | | + 150,000 |
| 50 | Next Generation Air Dominance | 503,997 | 392,997 | - 111,000 |
| | Classified adjustment | | | - 111,000 |
| 51 | Three Dimensional Long-Range Radar (3DELRR) | 40,326 | 25,426 | - 14,900 |
| | Maintain program affordability: EMD unit funding excess to need | | | - 14,900 |
| 60 | NAVSTAR Global Positioning System (User Equipment) (SPACE) | 286,629 | 256,629 | - 30,000 |
| | Improving funds management: Increment 2 devel- opment funded in Public Law 115-141 | | | - 30,000 |
| 63 | Space Situation Awareness Systems | 39,338 | 29,338 | - 10,000 |
| | Contradiction in justification books/briefs | | | - 10,000 |
| 65 | Space Control Technology | 91,018 | 76,018 | - 15,000 |

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|--|----------------------|--------------------------|-----------------------------|
| | Improving funds management: Space defense force packaging funded in Public Law 115-141 | | | - 15,000 |
| 67 | Protected Tactical Enterprise Service (PTES) | 51,419 | 46,419 | - 5,000 |
| | Restoring acquisition accountability: Schedule slip | | | - 5,000 |
| 70 | Operationally Responsive Space | 366,050 | 371,050 | 5,000 |
| | Restoring acquisition accountability: Phasing—Solar Power Project Air Demonstration | | | - 105,000 |
| | Program increase: Blackjack | | | + 110,000 |
| 75 | Tactical Data Networks Enterprise | 207,746 | 257,746 | 50,000 |
| | Program increase: Accelerate 21st Century battle management command and control | | | + 50,000 |
| 77 | Small Diameter Bomb [SDB] —EMD | 73,158 | 78,158 | 5,000 |
| | Program increase: Precise navigation | | | + 5,000 |
| 85 | Agile Combat Support | 20,028 | 23,528 | 3,500 |
| | Program increase: Explosion resistant window technology | | | + 3,500 |
| 86 | Joint Direct Attack Munition | 15,787 | | - 15,787 |
| | Transfer: Air Force requested to RDTE line 38 | | | - 15,787 |
| 88 | Combat Training Ranges | 35,895 | 43,895 | 8,000 |
| | Program increase: F-35 advanced threat simulator | | | + 8,000 |
| 91 | Long Range Standoff Weapon | 614,920 | 624,920 | 10,000 |
| | Program increase | | | + 10,000 |
| 97 | KC-46 | 88,170 | 80,170 | - 8,000 |
| | Improving funds management: Forward financed | | | - 8,000 |
| 99 | Combat Rescue Helicopter | 457,652 | 384,652 | - 73,000 |
| | Maintain program affordability: Development funding excess to need | | | - 73,000 |
| 107 | Nuclear Weapons Modernization | 91,907 | 84,907 | - 7,000 |
| | Maintain program affordability: Test support excess to need | | | - 7,000 |
| 109 | Stand In Attack Weapon | 43,175 | 14,975 | - 28,200 |
| | Restoring acquisition accountability: Unclear acquisition strategy | | | - 28,200 |
| 115 | JSTARS Recap | | 30,000 | 30,000 |
| | Program increase: Continue JSTARS recap GMTI radar development | | | + 30,000 |
| 117 | Presidential Aircraft Recapitalization (PAR) | 673,032 | 616,372 | - 56,660 |
| | Restoring acquisition accountability: EMD Hot Start unjustified | | | - 5,100 |
| | Maintain program affordability: EMD funding unjustified | | | - 51,560 |
| 120 | GPS IIC | 451,889 | 401,889 | - 50,000 |
| | Restoring acquisition accountability: Acquisition strategy undefined | | | - 50,000 |
| 127 | Wideband Global SATCOM (SPACE) | 3,970 | 53,470 | 49,500 |
| | Transfer: Pathfinder #5 from SPAF Line 5 | | | + 49,500 |
| 129 | Next-Generation OPIR | 643,126 | 743,126 | 100,000 |
| | Program increase: Accelerate sensor development | | | + 100,000 |
| 130 | Evolved Expendable Launch Vehicle Program (SPACE)—EMD | 245,447 | 445,447 | 200,000 |
| | Program increase | | | + 200,000 |
| 132 | Major T&E Investment | 91,844 | 266,844 | 175,000 |
| | Program increase | | | + 150,000 |
| | Program increase: Eastern Gulf test and training range | | | + 10,000 |
| | Program increase: Instrumentation technology | | | + 10,000 |
| | Program increase: UAV electronic warfare capabilities | | | + 5,000 |
| 136 | Test and Evaluation Support | 692,784 | 697,784 | 5,000 |
| | Program increase: Avionics cyber range | | | + 5,000 |
| 137 | Acq Workforce- Global Power | 233,924 | 226,075 | - 7,849 |
| | Maintain program affordability: Unjustified growth | | | - 7,849 |
| 138 | Acq Workforce- Global Vig & Combat Sys | 263,488 | 243,853 | - 19,635 |
| | Maintain program affordability: Unjustified growth | | | - 19,635 |

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|---|----------------------|--------------------------|-----------------------------|
| 139 | Acq Workforce- Global Reach | 153,591 | 145,230 | - 8,361 |
| | Maintain program affordability: Unjustified growth | | | - 8,361 |
| 140 | Acq Workforce- Cyber, Network, & Bus Sys | 232,315 | 217,900 | - 14,415 |
| | Maintain program affordability: Unjustified growth | | | - 14,415 |
| 141 | Acq Workforce- Global Battle Mgmt | 169,868 | 157,472 | - 12,396 |
| | Maintain program affordability: Unjustified growth | | | - 12,396 |
| 142 | Acq Workforce- Capability Integration | 226,219 | 221,126 | - 5,093 |
| | Maintain program affordability: Unjustified growth | | | - 5,093 |
| 143 | Acq Workforce- Advanced Prgm Technology | 38,400 | 32,796 | - 5,604 |
| | Maintain program affordability: Unjustified growth | | | - 5,604 |
| 144 | Acq Workforce- Nuclear Systems | 125,761 | 123,175 | - 2,586 |
| | Maintain program affordability: Unjustified growth | | | - 2,586 |
| 147 | Management HQ—R&D | 10,642 | 9,815 | - 827 |
| | Maintain program affordability: Unjustified growth | | | - 827 |
| 148 | Facilities Restoration and Modernization—Test and Evaluation Support | 162,216 | 262,216 | 100,000 |
| | Program increase | | | + 100,000 |
| 150 | Requirements Analysis and Maturation | 35,285 | 48,285 | 13,000 |
| | Program increase: Nuclear modernization analytics | | | + 8,000 |
| | Program increase: Nuclear deterrence research | | | + 5,000 |
| 167 | AF Integrated Personnel and Pay System (AF-IPPS) | 47,287 | 41,102 | - 6,185 |
| | Maintain program affordability: Management services excess to need | | | - 6,185 |
| 171 | NC3 Integration | 26,112 | 19,312 | - 6,800 |
| | Maintain program affordability: Unjustified growth in direct mission support | | | - 6,800 |
| 172 | Assessments and Evaluations Cyber Vulnerabilities | 99,100 | 75,950 | - 23,150 |
| | Maintain program affordability: Unjustified growth in infrastructure pilot programs | | | - 23,150 |
| 173 | B-52 Squadrons | 280,414 | 329,173 | 48,759 |
| | Transfer crypto modernization: Air Force—requested from APAF line 21 | | | + 14,759 |
| | Program increase: B-52 infrared threat defense UON | | | + 24,000 |
| | Program increase: B-52 mission data recorder | | | + 10,000 |
| 175 | B-1B Squadrons | 76,030 | 63,230 | - 12,800 |
| | Maintain program affordability: Fully integrated targeting pod funding excess to need | | | - 12,800 |
| 179 | Worldwide Joint Strategic Communications | 10,442 | 18,442 | 8,000 |
| | Program increase: NC3 architecture | | | + 8,000 |
| 189 | F-16 Squadrons | 191,564 | 185,864 | - 5,700 |
| | Restoring acquisition accountability: Communications suite upgrade early to need | | | - 5,700 |
| 190 | F-15E Squadrons | 192,883 | 176,483 | - 16,400 |
| | Maintain program affordability: Operational flight plan funding excess to need | | | - 41,400 |
| | Program increase: Electronic warfare receiver upgrades | | | + 25,000 |
| 192 | F-22A Squadrons | 603,553 | 588,453 | - 15,100 |
| | Restoring acquisition accountability: Navigation systems program delay | | | - 15,100 |
| 193 | F-35 Squadrons | 549,501 | 428,315 | - 121,186 |
| | Restoring acquisition accountability: C2D2 Phase 2 contract award delays | | | - 33,492 |
| | Restoring acquisition accountability: C2D2 flight test contract award delays | | | - 9,719 |
| | Improving funds management: ECASE excess growth | | | - 14,399 |
| | Improving funds management: Developmental Foundation excess growth | | | - 44,733 |
| | Improving funds management: Fixed JPO costs excess growth | | | - 6,168 |
| | Improving funds management: DCA excess growth | | | - 12,675 |
| 195 | Advanced Medium Range Air-to-Air Missile (AMRAAM) ... | 61,393 | 51,293 | - 10,100 |

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|---|----------------------|--------------------------|-----------------------------|
| | Restoring acquisition accountability: SIP 4 early to need | | | - 10,100 |
| 202 | Joint Air-to-Surface Standoff Missile [JASSM] | 60,062 | 42,472 | - 17,590 |
| | Transfer: Air Force requested to RDTE line 38 | | | - 17,590 |
| 204 | Control and Reporting Center [CRC] | 6,413 | 10,413 | 4,000 |
| | Program increase: Fund CRC Mode 5 implementation | | | + 4,000 |
| 205 | Airborne Warning and Control System [AWACS] | 120,664 | 130,664 | 10,000 |
| | Program increase: Accelerate 21st Century battle management command and control | | | + 10,000 |
| 213 | Joint Surveillance/Target Attack Radar System [JSTARS] .. | 14,888 | | - 14,888 |
| | Transfer common data link program: Air Force-requested to APAF line 59 | | | - 14,888 |
| 222 | AF Defensive Cyberspace Operations | 24,166 | 39,166 | 15,000 |
| | Program increase: Internet of Things protective technologies | | | + 7,500 |
| | Program increase: Transportation cyber research .. | | | + 7,500 |
| 224 | Unified Platform (UP) | 28,759 | 21,559 | - 7,200 |
| | Restoring acquisition accountability: Lack of justification on foundational efforts | | | - 7,200 |
| 240 | Minimum Essential Emergency Communications Network (MEECN) | 99,088 | 67,088 | - 32,000 |
| | Maintain program affordability: Unjustified growth in Global Aircrew Strategic Network Terminal Inc 2 | | | - 32,000 |
| 246 | Airborne SIGINT Enterprise | 106,873 | 109,873 | 3,000 |
| | Program increase: SIGINT sensor development | | | + 3,000 |
| 254 | Weather Service | 26,942 | 31,942 | 5,000 |
| | Program increase: Commercial weather system follow-on | | | + 5,000 |
| 255 | Air Traffic Control, Approach, and Landing System (ATCALS) | 6,271 | 11,271 | 5,000 |
| | Program increase: Air traffic management of UAS operations | | | + 5,000 |
| 268 | Dragon U-2 | 48,518 | 58,518 | 10,000 |
| | Program increase: Sensor development | | | + 10,000 |
| 269 | Endurance Unmanned Aerial Vehicles | | 15,000 | 15,000 |
| | Program increase: Ultra-long endurance aircraft ... | | | + 15,000 |
| 308 | Financial Management Information Systems Development | 99,734 | 93,834 | - 5,900 |
| | Maintain program affordability: Increment 2 excess to need | | | - 5,900 |
| 311 | Family of Advanced BLoS Terminals (FAB-T) | 80,168 | 60,168 | - 20,000 |
| | Restoring acquisition accountability: FET terminals early to need | | | - 20,000 |
| 312 | Satellite Control Network (SPACE) | 17,808 | 27,808 | 10,000 |
| | Program increase: Commercial augmentation service | | | + 10,000 |
| 318 | Spacelift Range System (SPACE) | 10,641 | 20,641 | 10,000 |
| | Program increase: Space launch range services and capability | | | + 10,000 |
| 999 | Classified Programs | 16,534,124 | 16,463,324 | - 70,800 |
| | Classified adjustment | | | - 70,800 |

Advanced Composites.—The Committee recognizes the unique role of the Air Force in developing advanced composites for next generation air and space vehicles. The Committee also recognizes the contribution of university research institutions to the Air Force in understanding the technology, processes, and materials used in advanced composites manufacturing as well as addressing shortages of qualified scientists and engineers. The Committee recommends additional funding in applied research and encourages the Air Force to continue to support the test, evaluation, and cer-

tification of advanced composites at academic institutions with proven capabilities in aviation and aerospace.

Technology Transfer.—The Committee recognizes the importance of technology transfer between the Federal Government and non-Federal entities, such as academia, nonprofit organizations, and State and local governments. Technology transfer lowers the cost of new defense-related technology development and ensures that taxpayer investments in research and development benefit the economy and the industrial base. The Committee encourages the Department of Defense to continue placing an increased focus on technology transfer programs by allocating sufficient funding and leveraging the work being performed by Federal laboratories.

Prototyping and Experimentation.—The fiscal year 2019 President's budget request includes \$1,186,075,000 in the Technology Transition Program to demonstrate, prototype, and experiment with innovative technologies and concepts to accelerate their transition to acquisition programs and eventual operational use. Specifically, the Technology Transition Program includes the Adaptive Engine Transition Program [AETP], hypersonics prototyping, smaller lifecycle developmental prototyping efforts, and experimentation campaigns. The Committee remains supportive of these activities, but is concerned about the amount of transparency and budget documentation provided in the budget request. Therefore, the Committee recommendation includes separate budget lines and program elements for the larger activities within the Technology Transition Program, to include AETP, hypersonics prototyping, and directed energy prototyping. The Committee recommends keeping the shorter-term prototyping and experimentation activities in the Technology Transition Program for greater flexibility to explore new ideas, concepts, and technologies. The Committee continues to expect timely and complete communication from the Air Force on prototyping and experimentation activities to include objectives and requirements, transition plans, technology and manufacturing readiness levels, test activities, costs, schedules, and performance metrics.

Air Force Alternative Energy Research.—The Committee is concerned that the Air Force is under-emphasizing the transition of alternative energy research into Air Force enterprise requirements. Therefore, the Committee directs the Secretary of the Air Force to report to the congressional defense committees not later than 90 days after enactment of this act detailing how the Air Force aligns its alternative energy research agenda with enterprise requirements. The report should include the metrics used to evaluate how the expenditure of funds serve the goals identified in its Energy Flight Plan: 2017–2036 and how the Air Force plans to transition existing alternative energy research, development, test and evaluation projects to meet Air Force energy requirements.

Advanced Pilot Training Program.—The fiscal year 2019 President's budget request includes \$265,465,000 to develop the Advanced Pilot Trainer, a modern system to train 4th and 5th generation pilots. The Committee understands that the Air Force plans to complete source selection and award the engineering, manufacturing, and development [EMD] contract in the summer of 2018. Given the age and the cost of sustaining the legacy T–38C pilot

training system as well as the Air Force's growing pilot shortage, the Committee encourages the Air Force to not further delay the award of the EMD contract and subsequently consider options to accelerate the program after contract award.

SPACE PROGRAMS

Space Acquisition Strategy.—The Committee supports the Air Force's plans to develop more capable and defensible satellites and appreciates the intention to be faster, more agile, and more innovative. The Committee also understands that there will be risks and tradeoffs with such a shift in strategy that will mean less predictability and possibly failures. The Committee's concerns, articulated in the Department of Defense Appropriations Act, 2018 (Public Law 115–141), are not about the risks involved with innovation or speed, but rather the risks involved with redeveloping nearly every major space system simultaneously. As noted last year, the Air Force is beginning development efforts for space situation awareness; position, navigation, and timing; weather; overhead persistent infrared; wide-band communications; and protected communications, with major changes to the program of record planned in nearly every case. The Committee remains concerned that the decision to accept less predictability and the possibility of failure in all of these programs simultaneously may pose unacceptable risks to constellation sustainment. These risks may be compounded in an environment where the acquisition workforce, rooted in contemplation and caution, is asked to shift its culture toward speed and agility for so many efforts. Moreover, the Committee is concerned that the funding peaks and troughs that will likely result from simultaneous architecture recapitalization may not take into account budget realities and may risk sustainment of the industrial base at levels adequate for future program needs. The Committee looks forward to receiving the report directed last year that will provide an assessment of these issues and looks forward to working with the Department to achieve the best way forward for the future of these space programs.

Next-Generation Overhead Persistent Infrared.—The fiscal year 2019 President's budget request includes \$643,126,000 for Next-Generation Overhead Persistent Infrared [OPIR], the successor to the Space Based Infrared System [SBIRS]. This is in addition to the \$327,002,000 appropriated in the Department of Defense Appropriations Act, 2018 (Public Law 115–141) for the start of Next-Gen OPIR, following a shift in the Air Force strategy away from a prior plan to purchase additional SBIRS space vehicles. The Committee is supportive of the Air Force's efforts to provide improved missile warning capabilities that are more survivable against emerging threats. However, the Committee has concerns about several shifts in the program plans over the past year, delays in providing a spend plan for the program, and requests for additional funds so soon after the program's start. The Committee is hopeful that these initial hiccups do not signal challenges ahead in meeting the aggressive timelines laid out by the Department. The Committee agrees with Air Force and Department leadership that Next-Gen OPIR will be a pacesetter for rapid acquisition of space programs. Therefore, despite these concerns, the Committee rec-

ommends fully funding the Air Force budget request. In addition, the Committee recommends an additional \$100,000,000 for advanced sensor development. The Committee reiterates guidance from last year that OPIR is designated as a congressional special interest item and continues to direct the Secretary of the Air Force to provide quarterly briefings to the congressional defense committees detailing progress against cost and schedule milestones.

RESEARCH, DEVELOPMENT, TEST AND EVALUATION, DEFENSE-WIDE

| | |
|--------------------------------|------------------|
| Appropriations, 2018 | \$22,010,975,000 |
| Budget estimate, 2019 | 22,016,553,000 |
| Committee recommendation | 24,049,621,000 |

The Committee recommends an appropriation of \$24,049,621,000. This is \$2,033,068,000 above the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table summarizes the budget estimate for this appropriation, the Committee recommendation, and the Committee recommended adjustments to the budget estimate:

(In thousands of dollars)

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|---|----------------------|--------------------------|-----------------------------|
| | RESEARCH, DEVELOPMENT, TEST & EVAL, DEFENSE-WIDE | | | |
| | BASIC RESEARCH | | | |
| 1 | DTRA UNIVERSITY STRATEGIC PARTNERSHIP BASIC RESEARCH .. | 37,023 | 37,023 | ..... |
| 2 | DEFENSE RESEARCH SCIENCES | 422,130 | 422,680 | + 550 |
| 3 | BASIC RESEARCH INITIATIVES | 42,702 | 54,702 | + 12,000 |
| 4 | BASIC OPERATIONAL MEDICAL RESEARCH SCIENCE | 47,825 | 45,275 | - 2,550 |
| 5 | NATIONAL DEFENSE EDUCATION PROGRAM | 85,919 | 200,919 | + 115,000 |
| 6 | HISTORICALLY BLACK COLLEGES & UNIV (HBCU) | 30,412 | 32,412 | + 2,000 |
| 7 | CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM | 42,103 | 42,103 | ..... |
| | TOTAL, BASIC RESEARCH | 708,114 | 835,114 | + 127,000 |
| | APPLIED RESEARCH | | | |
| 8 | JOINT MUNITIONS TECHNOLOGY | 19,170 | 21,670 | + 2,500 |
| 9 | BIOMEDICAL TECHNOLOGY | 101,300 | 86,700 | - 14,600 |
| 11 | LINCOLN LABORATORY RESEARCH PROGRAM | 51,596 | 51,596 | ..... |
| 12 | APPLIED RESEARCH FOR ADVANCEMENT S&T PRIORITIES | 60,688 | 60,688 | ..... |
| 13 | INFORMATION AND COMMUNICATIONS TECHNOLOGY | 395,317 | 379,817 | - 15,500 |
| 14 | BIOLOGICAL WARFARE DEFENSE | 38,640 | 38,640 | ..... |
| 15 | CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM | 192,674 | 192,674 | ..... |
| 16 | CYBER SECURITY RESEARCH | 14,969 | 14,969 | ..... |
| 17 | TACTICAL TECHNOLOGY | 335,466 | 321,966 | - 13,500 |
| 18 | MATERIALS AND BIOLOGICAL TECHNOLOGY | 226,898 | 218,898 | - 8,000 |
| 19 | ELECTRONICS TECHNOLOGY | 333,847 | 363,847 | + 30,000 |
| 20 | WEAPONS OF MASS DESTRUCTION DEFEAT TECHNOLOGIES | 161,151 | 157,151 | - 4,000 |
| 21 | SOFTWARE ENGINEERING INSTITUTE | 9,300 | 9,300 | ..... |
| 22 | SPECIAL OPERATIONS TECHNOLOGY DEVELOPMENT | 35,921 | 35,921 | ..... |
| | TOTAL, APPLIED RESEARCH | 1,976,937 | 1,953,837 | - 23,100 |
| | ADVANCED TECHNOLOGY DEVELOPMENT | | | |
| 23 | JOINT MUNITIONS ADVANCED TECH INSENSITIVE MUNITIONS AD | 25,598 | 25,598 | ..... |
| 24 | COMBATING TERRORISM TECHNOLOGY SUPPORT | 125,271 | 120,271 | - 5,000 |
| 25 | FOREIGN COMPARATIVE TESTING | 24,532 | 22,332 | - 2,200 |
| 27 | COUNTERPROLIFERATION INITIATIVES—PROLIF PREV & DEFEAT | 299,858 | 270,858 | - 29,000 |
| 28 | ADVANCED CONCEPTS AND PERFORMANCE ASSESSMENT | 13,017 | 13,017 | ..... |
| 29 | WEAPONS TECHNOLOGY ..... | ..... | 13,400 | + 13,400 |
| 31 | ADVANCED RESEARCH | 20,365 | 42,565 | + 22,200 |
| 32 | JOINT DOD-DOE MUNITIONS TECHNOLOGY DEVELOPMENT | 18,644 | 18,644 | ..... |

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|---|----------------------|--------------------------|-----------------------------|
| 34 | ADVANCED AEROSPACE SYSTEMS | 277,603 | 327,603 | + 50,000 |
| 35 | SPACE PROGRAMS AND TECHNOLOGY | 254,671 | 249,671 | - 5,000 |
| 36 | ANALYTIC ASSESSMENTS | 19,472 | 18,472 | - 1,000 |
| 37 | ADVANCED INNOVATIVE ANALYSIS AND CONCEPTS | 37,263 | 37,263 | ..... |
| 38 | ADVANCED INNOVATIVE ANALYSIS AND CONCEPTS—MHA | 13,621 | 13,621 | ..... |
| 39 | COMMON KILL VEHICLE TECHNOLOGY | 189,753 | 56,753 | - 133,000 |
| 40 | DEFENSE INNOVATION UNIT EXPERIMENTAL (DIUX) | 29,364 | 29,364 | ..... |
| 41 | TECHNOLOGY INNOVATION | 83,143 | 83,143 | ..... |
| 42 | CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM—ADVANCED DEV | 142,826 | 142,826 | ..... |
| 43 | RETRACT LARCH | 161,128 | 161,128 | ..... |
| 44 | JOINT ELECTRONIC ADVANCED TECHNOLOGY | 12,918 | 12,918 | ..... |
| 45 | JOINT CAPABILITY TECHNOLOGY DEMONSTRATIONS | 106,049 | 93,049 | - 13,000 |
| 46 | NETWORKED COMMUNICATIONS CAPABILITIES | 12,696 | 12,696 | ..... |
| 47 | DEFENSE-WIDE MANUFACTURING SCIENCE AND TECHNOLOGY PROG | 114,637 | 159,887 | + 45,250 |
| 48 | MANUFACTURING TECHNOLOGY PROGRAM | 49,667 | 67,167 | + 17,500 |
| 49 | EMERGING CAPABILITIES TECHNOLOGY DEVELOPMENT | 48,338 | 60,838 | + 12,500 |
| 50 | GENERIC LOGISTICS R&D TECHNOLOGY DEMONSTRATIONS | 11,778 | 19,778 | + 8,000 |
| 52 | STRATEGIC ENVIRONMENTAL RESEARCH PROGRAM | 76,514 | 86,514 | + 10,000 |
| 53 | MICROELECTRONIC TECHNOLOGY DEVELOPMENT AND SUPPORT | 168,931 | 203,931 | + 35,000 |
| 54 | JOINT WARFIGHTING PROGRAM | 5,992 | 5,992 | ..... |
| 55 | ADVANCED ELECTRONICS TECHNOLOGIES | 111,099 | 118,599 | + 7,500 |
| 56 | COMMAND, CONTROL AND COMMUNICATIONS SYSTEMS | 185,984 | 185,984 | ..... |
| 57 | NETWORK-CENTRIC WARFARE TECHNOLOGY | 438,569 | 434,069 | - 4,500 |
| 58 | SENSOR TECHNOLOGY | 190,128 | 173,601 | - 16,527 |
| 59 | DISTRIBUTED LEARNING ADVANCED TECHNOLOGY DEVELOPMENT | 13,564 | 11,564 | - 2,000 |
| 60 | SOFTWARE ENGINEERING INSTITUTE | 15,050 | 15,050 | ..... |
| 61 | QUICK REACTION SPECIAL PROJECTS | 69,626 | 59,626 | - 10,000 |
| 62 | ENGINEERING SCIENCE AND TECHNOLOGY | 19,415 | 19,415 | ..... |
| 63 | HIGH ENERGY LASER ADVANCED TECHNOLOGY PROGRAM | 69,533 | 69,533 | ..... |
| 64 | TEST & EVALUATION SCIENCE & TECHNOLOGY | 96,389 | 132,389 | + 36,000 |
| 65 | OPERATIONAL ENERGY CAPABILITY IMPROVEMENT | 40,582 | 40,582 | ..... |
| 66 | CWMD SYSTEMS | 26,644 | 26,644 | ..... |
| 67 | SPECIAL OPERATIONS ADVANCED TECHNOLOGY DEVELOPMENT .. | 79,380 | 79,380 | ..... |
| | TOTAL, ADVANCED TECHNOLOGY DEVELOPMENT | 3,699,612 | 3,735,735 | + 36,123 |
| | DEMONSTRATION & VALIDATION | | | |
| 68 | NUCLEAR AND CONVENTIONAL PHYSICAL SECURITY EQUIPMENT | 28,140 | 28,140 | ..... |
| 69 | WALKOFF | 92,222 | 92,222 | ..... |
| 70 | ACQUISITION ENTERPRISE DATA AND INFORMATION SERVICES ... | 2,506 | 2,506 | ..... |
| 71 | ENVIRONMENTAL SECURITY TECHNICAL CERTIFICATION PROGRAM | 40,016 | 42,016 | + 2,000 |
| 72 | BALLISTIC MISSILE DEFENSE TERMINAL DEFENSE SEGMENT | 214,173 | 398,273 | + 184,100 |
| 73 | BALLISTIC MISSILE DEFENSE MIDCOURSE DEFENSE SEGMENT ... | 926,359 | 803,359 | - 123,000 |
| 74 | CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM | 129,886 | 113,496 | - 16,390 |
| 75 | BALLISTIC MISSILE DEFENSE SENSORS | 220,876 | 359,176 | + 138,300 |
| 76 | BALLISTIC MISSILE DEFENSE ENABLING PROGRAMS | 540,926 | 638,426 | + 97,500 |
| 77 | SPECIAL PROGRAMS—MDA | 422,348 | 422,348 | ..... |
| 78 | AEGIS BMD | 767,539 | 773,520 | + 5,981 |
| | BALLISTIC MISSILE DEFENSE COMMAND AND CONTROL, BATTLE MANAGEMENT | 475,168 | 565,368 | + 90,200 |
| 82 | BALLISTIC MISSILE DEFENSE JOINT WARFIGHTER SUPPORT | 48,767 | 48,767 | ..... |
| 83 | BALLISTIC MISSILE DEFENSE INTERGRATION AND OPERATIONS. CENTER (MDIOC) | 54,925 | 54,925 | ..... |
| 84 | REGARDING TRENCH | 16,916 | 16,916 | ..... |
| 85 | SEA BASED X-BAND RADAR (SBX) | 149,715 | 136,715 | - 13,000 |
| 86 | ISRAELI COOPERATIVE PROGRAMS | 300,000 | 300,000 | ..... |
| 87 | BALLISTIC MISSILE DEFENSE TEST | 365,681 | 518,848 | + 153,167 |
| 88 | BALLISTIC MISSILE DEFENSE TARGETS | 517,852 | 561,352 | + 43,500 |
| 89 | HUMANITARIAN DEMINING | 11,347 | 11,347 | ..... |
| 90 | COALITION WARFARE | 8,528 | 8,528 | ..... |
| 91 | DEPARTMENT OF DEFENSE CORROSION PROGRAM | 3,477 | 8,477 | + 5,000 |

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|---|----------------------|--------------------------|-----------------------------|
| 92 | TECHNOLOGY MATURATION INITIATIVES | 148,822 | 316,822 | + 168,000 |
| 93 | MISSILE DEFEAT PROJECT | 58,607 | 43,607 | - 15,000 |
| | COUNTER IMPROVISED-THREAT DEMONSTRATION, PROTOTYPE DEVELOPMENT, AND TESTING | 12,993 | ..... | - 12,993 |
| 94 | HYPERSONIC DEFENSE | 120,444 | 130,944 | + 10,500 |
| 95 | ADVANCED INNOVATIVE TECHNOLOGIES | 1,431,702 | 1,496,336 | + 64,634 |
| 96 | JOINT ARTIFICIAL INTELLIGENCE CENTER ..... | ..... | 83,000 | + 83,000 |
| 96A | TRUSTED AND ASSURED MICROELECTRONICS | 233,142 | 595,642 | + 362,500 |
| 97 | RAPID PROTOTYPING PROGRAM | 99,333 | 99,333 | ..... |
| 98 | DOD UNMANNED AIRCRAFT SYSTEM (UAS) COMMON DEVELOPMENT | 3,781 | 7,781 | + 4,000 |
| 99 | PACIFIC DISCRIMINATING RADAR | 95,765 | 73,147 | - 22,618 |
| 100 | WARGAMING AND SUPPORT FOR STRATEGIC ANALYSIS (SSA) | 3,768 | 3,768 | ..... |
| 101 | JOINT C5 CAPABILITY DEVELOPMENT, INTEGRATION AND INTEROPERABILITY | 22,435 | 22,435 | ..... |
| 102 | LONG RANGE DISCRIMINATION RADAR | 164,562 | 164,562 | ..... |
| 103 | IMPROVED HOMELAND DEFENSE INTERCEPTORS | 561,220 | 421,820 | - 139,400 |
| 104 | BMD TERMINAL DEFENSE SEGMENT TEST | 61,017 | 61,017 | ..... |
| 105 | AEGIS BMD TEST | 95,756 | 95,756 | ..... |
| 106 | BALLISTIC MISSILE DEFENSE SENSOR TEST | 81,001 | 81,001 | ..... |
| 107 | LAND-BASED SM-3 [LBSM3] | 27,692 | 27,692 | ..... |
| 108 | BALLISTIC MISSILE DEFENSE MIDCOURSE DEFENSE SEGMENT TEST | 81,934 | 72,634 | - 9,300 |
| 109 | MULTI-OBJECT KILL VEHICLE | 8,256 | 3,256 | - 5,000 |
| 110 | ENTERPRISE INFORMATION TECHNOLOGY SYSTEMS | 2,600 | 2,600 | ..... |
| 111 | JOINT ELECTROMAGNETIC TECHNOLOGY [JET] PROGRAM | 3,104 | 3,104 | ..... |
| 112 | CYBER SECURITY INITIATIVE | 985 | 985 | ..... |
| 113 | SPACE TRACKING AND SURVEILLANCE SYSTEM | 36,955 | 36,955 | ..... |
| 114 | BALLISTIC MISSILE DEFENSE SYSEM SPACE PROGRAMS | 16,484 | 121,984 | + 105,500 |
| | TOTAL, DEMONSTRATION & VALIDATION | 8,709,725 | 9,870,906 | + 1,161,181 |
| | ENGINEERING & MANUFACTURING DEVELOPMENT | | | |
| 115 | NUCLEAR AND CONVENTIONAL PHYSICAL SECURITY EQUIPMENT | 8,333 | 8,333 | ..... |
| 116 | PROMPT GLOBAL STRIKE CAPABILITY DEVELOPMENT | 263,414 | 615,914 | + 352,500 |
| 117 | CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM | 388,701 | 329,909 | - 58,792 |
| 118 | JOINT TACTICAL INFORMATION DISTRIBUTION SYSTEM [JTIDS] | 19,503 | 29,503 | + 10,000 |
| 119 | WEAPONS OF MASS DESTRUCTION DEFEAT CAPABILITIES | 6,163 | 6,163 | ..... |
| 120 | INFORMATION TECHNOLOGY DEVELOPMENT | 11,988 | 11,988 | ..... |
| 121 | HOMELAND PERSONNEL SECURITY INITIATIVE | 296 | 296 | ..... |
| 122 | DEFENSE EXPORTABILITY PROGRAM | 1,489 | 1,489 | ..... |
| 123 | OUS(D) IT DEVELOPMENT INITIATIVES | 9,590 | 9,590 | ..... |
| 124 | DOD ENTERPRISE SYSTEMS DEVELOPMENT AND DEMONSTRATION | 3,173 | 3,173 | ..... |
| 125 | DCMO POLICY AND INTEGRATION | 2,105 | 2,105 | ..... |
| 126 | DEFENSE AGENCY INITIATIVES FINANCIAL SYSTEM | 21,156 | 21,156 | ..... |
| 127 | DEFENSE RETIRED AND ANNUITANT PAY SYSTEM (DRAS) | 10,731 | 10,731 | ..... |
| 128 | DEFENSE-WIDE ELECTRONIC PROCUREMENT CAPABILITIES | 6,374 | 6,374 | ..... |
| 129 | TRUSTED & ASSURED MICROELECTRONICS | 56,178 | 98,678 | + 42,500 |
| 130 | GLOBAL COMBAT SUPPORT SYSTEM | 2,512 | 2,512 | ..... |
| 131 | DOD ENTERPRISE ENERGY INFORMATION MANAGEMENT (EIM) | 2,435 | 2,435 | ..... |
| 132 | CWMD SYSTEMS: SYSTEM DEVELOPMENT AND DEMONSTRATION | 17,048 | 17,048 | ..... |
| | TOTAL, ENGINEERING & MANUFACTURING DEVELOPMENT | 831,189 | 1,177,397 | + 346,208 |
| | RDT&E MANAGEMENT SUPPORT | | | |
| 133 | DEFENSE READINESS REPORTING SYSTEM [DRRS] | 6,661 | 6,661 | ..... |
| 134 | JOINT SYSTEMS ARCHITECTURE DEVELOPMENT | 4,088 | 4,088 | ..... |
| 135 | CENTRAL TEST AND EVALUATION INVESTMENT DEVELOPMENT | 258,796 | 278,096 | + 19,300 |
| 136 | ASSESSMENTS AND EVALUATIONS | 31,356 | 31,356 | ..... |
| 137 | MISSION SUPPORT | 65,646 | 65,646 | ..... |
| 138 | JOINT MISSION ENVIRONMENT TEST CAPABILITY [JMETC] | 84,184 | 89,184 | + 5,000 |
| 139 | TECHNICAL STUDIES, SUPPORT AND ANALYSIS | 22,576 | 22,576 | ..... |

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|--|----------------------|--------------------------|-----------------------------|
| 144 | JOINT INTEGRATED AIR AND MISSILE DEFENSE ORGANIZATION ... | 52,565 | 52,565 | ..... |
| 145 | CLASSIFIED PROGRAM USD(P) ..... | ..... | 100,000 | + 100,000 |
| 146 | SYSTEMS ENGINEERING | 38,872 | 38,872 | ..... |
| 147 | STUDIES AND ANALYSIS SUPPORT | 3,534 | 3,534 | ..... |
| 148 | NUCLEAR MATTERS—PHYSICAL SECURITY | 5,050 | 5,050 | ..... |
| 149 | SUPPORT TO NETWORKS AND INFORMATION INTEGRATION | 11,450 | 11,450 | ..... |
| 150 | GENERAL SUPPORT TO USD (INTELLIGENCE) | 1,693 | 5,693 | + 4,000 |
| 151 | CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM | 102,883 | 102,883 | ..... |
| 159 | SMALL BUSINESS INNOVATION RESEARCH/TECHNOLOGY TRANS- FER | 2,545 | 2,545 | ..... |
| 160 | DEFENSE TECHNOLOGY ANALYSIS | 24,487 | 27,487 | + 3,000 |
| 161 | DEFENSE TECHNICAL INFORMATION CENTER (DTIC) | 56,853 | 56,853 | ..... |
| 162 | R&D IN SUPPORT OF DOD ENLISTMENT, TESTING & EVALUATION | 24,914 | 24,914 | ..... |
| 163 | DEVELOPMENT TEST AND EVALUATION | 20,179 | 25,179 | + 5,000 |
| 164 | MANAGEMENT HEADQUARTERS (RESEARCH & DEVELOPMENT) ... | 13,643 | 13,643 | ..... |
| 165 | MANAGEMENT HEADQUARTERS DEFENSE TECHNICAL INFORMA- TION CENTER (DTIC) | 4,124 | 4,124 | ..... |
| 166 | BUDGET AND PROGRAM ASSESSMENTS | 5,768 | 5,768 | ..... |
| 167 | ODNA TECHNOLOGY AND RESOURCE ANALYSIS | 1,030 | 1,030 | ..... |
| 168 | DEFENSE DIGITAL SERVICE (DDS) DEVELOPMENT SUPPORT | 1,000 | 1,000 | ..... |
| 169 | ASSESSMENTS AND EVALUATIONS CYBER VULNERABILITIES | 3,400 | 3,400 | ..... |
| 170 | ASSESSMENTS AND EVALUATIONS CYBER VULNERABILITIES | 4,000 | 4,000 | ..... |
| 171 | DEFENSE OPERATIONS SECURITY (OPSEC) | 3,008 | 10,008 | + 7,000 |
| 172 | JOINT STAFF ANALYTICAL SUPPORT | 6,658 | 6,658 | ..... |
| 175 | SUPPORT TO INFORMATION OPERATIONS (IO) CAPABILITIES | 652 | 652 | ..... |
| 176 | DEFENSE MILITARY DECEPTION PROGRAM OFFICE | 1,005 | 1,005 | ..... |
| 177 | COMBINED ADVANCED APPLICATIONS | 21,363 | 16,363 | - 5,000 |
| 180 | INTELLIGENCE CAPABILITIES AND INNOVATION INVESTMENTS | 109,529 | 259,529 | + 150,000 |
| 181 | CWMD SYSTEMS: RDT&E MANAGEMENT SUPPORT | 1,244 | 1,244 | ..... |
| 184 | COCOM EXERCISE ENGAGEMENT AND TRAINING TRANS- FORMATION | 42,940 | 42,940 | ..... |
| 185 | MANAGEMENT HEADQUARTERS—MDA | 28,626 | 28,626 | ..... |
| 187 | JOINT SERVICE PROVIDER (JSP) | 5,104 | 5,104 | ..... |
| 9999 | CLASSIFIED PROGRAMS | 45,604 | 45,604 | ..... |
| | TOTAL, RDT&E MANAGEMENT SUPPORT | 1,117,030 | 1,405,330 | + 288,300 |
| | OPERATIONAL SYSTEMS DEVELOPMENT | | | |
| 189 | ENTERPRISE SECURITY SYSTEM (ESS) | 9,750 | 9,750 | ..... |
| 190 | REGIONAL INTERNATIONAL OUTREACH & PARTNERSHIP FOR PEAC | 1,855 | 1,855 | ..... |
| 191 | OVERSEAS HUMANITARIAN ASSISTANCE SHARED INFORMATION SY | 304 | 304 | ..... |
| 192 | INDUSTRIAL BASE ANALYSIS AND SUSTAINMENT SUPPORT | 10,376 | 63,876 | + 53,500 |
| 193 | OPERATIONAL SYSTEMS DEVELOPMENT | 5,915 | 5,915 | ..... |
| 194 | GLOBAL THEATER SECURITY COOPERATION MANAGEMENT | 5,869 | 5,869 | ..... |
| 195 | CHEMICAL AND BIOLOGICAL DEFENSE (OPERATIONAL SYSTEMS D | 48,741 | 42,385 | - 6,356 |
| 196 | PLANNING AND DECISION AID SYSTEM | 3,037 | 3,037 | ..... |
| 197 | C4I INTEROPERABILITY | 62,814 | 62,814 | ..... |
| 203 | DEFENSE INFO INFRASTRUCTURE ENGINEERING & INTEGRATION | 16,561 | 16,561 | ..... |
| 204 | LONG HAUL COMMUNICATIONS (DCS) | 14,769 | 14,769 | ..... |
| 205 | MINIMUM ESSENTIAL EMERGENCY COMMUNICATIONS NETWORK | 17,579 | 17,579 | ..... |
| 207 | KEY MANAGEMENT INFRASTRUCTURE (KMI) | 31,737 | 31,737 | ..... |
| 208 | INFORMATION SYSTEMS SECURITY PROGRAM | 7,940 | 7,940 | ..... |
| 209 | INFORMATION SYSTEMS SECURITY PROGRAM | 229,252 | 229,252 | ..... |
| 210 | INFORMATION SYSTEMS SECURITY PROGRAM | 19,611 | 19,611 | ..... |
| 211 | GLOBAL COMMAND AND CONTROL SYSTEM | 46,900 | 46,900 | ..... |
| 212 | JOINT SPECTRUM CENTER (DEFENSE SPECTRUM ORGANIZATION) | 7,570 | 7,570 | ..... |
| 213 | JOINT INFORMATION ENVIRONMENT (JIE) | 7,947 | 7,947 | ..... |
| 215 | FEDERAL INVESTIGATIVE SERVICES INFORMATION TECHNOLOGY | 39,400 | 39,400 | ..... |
| 224 | POLICY R&D PROGRAMS | 6,262 | 6,262 | ..... |
| 225 | NET CENTRICITY | 16,780 | 16,780 | ..... |
| 227 | DISTRIBUTED COMMON GROUND/SURFACE SYSTEMS | 6,286 | 6,286 | ..... |

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|---|----------------------|--------------------------|-----------------------------|
| 230 | DISTRIBUTED COMMON GROUND/SURFACE SYSTEMS | 2,970 | 2,970 | ..... |
| 233 | INSIDER THREAT | 5,954 | 5,954 | ..... |
| 234 | HOMELAND DEFENSE TECHNOLOGY TRANSFER PROGRAM | 2,198 | 1,198 | - 1,000 |
| 240 | INTELLIGENCE MISSION DATA (IMD) | 6,889 | 6,889 | ..... |
| 242 | LOGISTICS SUPPORT ACTIVITIES | 1,317 | 1,317 | ..... |
| 243 | PACIFIC DISASTER CENTERS | 1,770 | 1,770 | ..... |
| 244 | DEFENSE PROPERTY ACCOUNTABILITY SYSTEM | 1,805 | 1,805 | ..... |
| 246 | MQ-9 UAV | 18,403 | 18,403 | ..... |
| 248 | AVIATION SYSTEMS | 184,993 | 182,862 | - 2,131 |
| 249 | SPECIAL OPERATIONS INTELLIGENCE SYSTEMS DEVELOPMENT ... | 10,625 | 10,625 | ..... |
| 250 | SOF OPERATIONAL ENHANCEMENTS | 102,307 | 102,307 | ..... |
| 251 | WARRIOR SYSTEMS | 46,942 | 55,642 | + 8,700 |
| 252 | SPECIAL PROGRAMS | 2,479 | 2,479 | ..... |
| 253 | UNMANNED ISR | 27,270 | 33,270 | + 6,000 |
| 254 | SOF TACTICAL VEHICLES | 1,121 | 1,121 | ..... |
| 255 | SOF MARITIME SYSTEMS | 42,471 | 42,471 | ..... |
| 256 | SOF GLOBAL VIDEO SURVEILLANCE ACTIVITIES | 4,780 | 4,780 | ..... |
| 257 | SOF OPERATIONAL ENHANCEMENTS INTELLIGENCE | 12,176 | 12,176 | ..... |
| 258 | TELEPORT PROGRAM | 2,323 | 723 | - 1,600 |
| 300 | NATIONAL SECURITY INNOVATION ACTIVITIES ..... | ..... | 75,000 | + 75,000 |
| | TOTAL, OPERATIONAL SYSTEMS DEVELOPMENT | 1,096,048 | 1,228,161 | + 132,113 |
| 999 | CLASSIFIED PROGRAMS | 3,877,898 | 3,843,141 | - 34,757 |
| | TOTAL, RESEARCH, DEVELOPMENT, TEST & EVAL, DEF- WIDE | 22,016,553 | 24,049,621 | + 2,033,068 |

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|--|----------------------|--------------------------|-----------------------------|
| 2 | Defense Research Sciences | 422,130 | 422,680 | + 550 |
| | Program increase: DARPA foundational and applied artificial intelligence ..... | ..... | ..... | + 15,000 |
| | Improving Funds Management: Program delays ..... | ..... | ..... | - 14,450 |
| 3 | Basic Research Initiatives | 42,702 | 54,702 | + 12,000 |
| | Program increase: DEPCOR ..... | ..... | ..... | + 12,000 |
| 4 | Basic Operational Medical Research Science | 47,825 | 45,275 | - 2,550 |
| | Improving Funds Management: Program delays ..... | ..... | ..... | - 12,550 |
| | Program increase: TBI Treatment for blast injuries ..... | ..... | ..... | + 10,000 |
| 5 | National Defense Education Program | 85,919 | 200,919 | + 115,000 |
| | Basic research program increase ..... | ..... | ..... | + 100,000 |
| | Program increase: Manufacturing engineering education program ..... | ..... | ..... | + 15,000 |
| 6 | Historically Black Colleges and Universities/Minority Institutions | 30,412 | 32,412 | + 2,000 |
| | Program increase ..... | ..... | ..... | + 2,000 |
| 8 | Joint Munitions Technology | 19,170 | 21,670 | + 2,500 |
| | Program increase: Insensitive munitions ..... | ..... | ..... | + 2,500 |
| 9 | Biomedical Technology | 101,300 | 86,700 | - 14,600 |
| | Improving Funds Management: Program delays ..... | ..... | ..... | - 14,600 |
| 13 | Information & Communications Technology | 395,317 | 379,817 | - 15,500 |
| | Program increase: DARPA foundational and applied artificial intelligence ..... | ..... | ..... | + 35,000 |
| | Improving Funds Management: Program delays ..... | ..... | ..... | - 50,500 |
| 17 | Tactical Technology | 335,466 | 321,966 | - 13,500 |
| | Improving Funds Management: Program delays ..... | ..... | ..... | - 16,000 |
| | Program increase ..... | ..... | ..... | + 2,500 |
| 18 | Materials and Biological Technology | 226,898 | 218,898 | - 8,000 |

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|--|----------------------|--------------------------|-----------------------------|
| | Improving Funds Management: Program delays | | | - 8,000 |
| 19 | Electronics Technology | 333,847 | 363,847 | + 30,000 |
| | Program increase: DARPA electronics resurgence initiative | | | + 30,000 |
| 20 | Counter Weapons of Mass Destruction Applied Research | 161,151 | 157,151 | - 4,000 |
| | JIDO unjustified base budget request | | | - 4,000 |
| 24 | Combating Terrorism Technology Support | 125,271 | 120,271 | - 5,000 |
| | Improving funds management: Unjustified growth | | | - 30,000 |
| | Transfer funding from RDDW OCO Line 24: Anti-Tunneling | | | + 25,000 |
| 25 | Foreign Comparative Testing | 24,532 | 22,332 | - 2,200 |
| | Improving funds management: Prior year carryover | | | - 2,200 |
| 27 | Counter Weapons of Mass Destruction Advanced Technology Development | 299,858 | 270,858 | - 29,000 |
| | JIDO unjustified base budget request | | | - 29,000 |
| 29 | Weapons Technology | | 13,400 | + 13,400 |
| | Program increase: Hypersonic Defense | | | + 13,400 |
| 31 | Advanced Research | 20,365 | 42,565 | + 22,200 |
| | Program increase: Hypersonic Defense | | | + 22,200 |
| 34 | Advanced Aerospace Systems | 277,603 | 327,603 | + 50,000 |
| | Program increase: Hypersonics weapons programs development and transition | | | + 50,000 |
| 35 | Space Programs and Technology | 254,671 | 249,671 | - 5,000 |
| | Insufficient budget justification: RASR | | | - 5,000 |
| 36 | Analytic Assessments | 19,472 | 18,472 | - 1,000 |
| | Improving funds management: Prior year carryover | | | - 1,000 |
| 39 | Common Kill Vehicle Technology | 189,753 | 56,753 | - 133,000 |
| | Transfer to line 92 for low power laser demonstrator prototypes post-PDR risk reduction through CDR only | | | - 78,000 |
| | Restoring acquisition accountability: program adjustment | | | - 55,000 |
| 45 | Joint Capability Technology Demonstrations | 106,049 | 93,049 | - 13,000 |
| | Improving funds management: Prior year carryover | | | - 13,000 |
| 47 | Defense-Wide Manufacturing Science and Technology Program | 114,637 | 159,887 | + 45,250 |
| | Program increase: Manufacturing engineering programs | | | + 5,000 |
| | Program increase: Manufacturing innovation institutes | | | + 10,250 |
| | Program increase: Advanced manufacturing | | | + 30,000 |
| 48 | Manufacturing Technology Program | 49,667 | 67,167 | + 17,500 |
| | Program increase | | | + 2,500 |
| | Program increase: All solid-state battery development | | | + 10,000 |
| | Program increase: Digital innovative design for reliable casting performance | | | + 5,000 |
| 49 | Emerging Capabilities Technology Development | 48,338 | 60,838 | + 12,500 |
| | Improving funds management: Prior year carryover | | | - 5,000 |
| | Program increase: Disruptive technology and operational concept for air and missile defense | | | + 7,500 |
| | Program increase: High-altitude optical reconnaissance unit and sensors | | | + 10,000 |
| 50 | Generic Logistics R&D Technology Demonstrations | 11,778 | 19,778 | + 8,000 |
| | Program increase: Liquid hydrocarbon fuels | | | + 7,000 |
| | Program increase | | | + 1,000 |
| 52 | Strategic Environmental Research Program | 76,514 | 86,514 | + 10,000 |
| | Readiness Increase | | | + 10,000 |
| 53 | Microelectronics Technology Development and Support | 168,931 | 203,931 | + 35,000 |
| | Program increase: Trusted foundry | | | + 30,000 |
| | Program increase: Tunable filter, support for microelectronics development | | | + 5,000 |
| 55 | Advanced Electronics Technologies | 111,099 | 118,599 | + 7,500 |
| | Program increase: Support for the electronics resurgence initiative | | | + 7,500 |
| 57 | Network-Centric Warfare Technology | 438,569 | 434,069 | - 4,500 |
| | Improving Funds Management: Program delays | | | - 4,500 |
| 58 | Sensor Technology | 190,128 | 173,601 | - 16,527 |
| | Improving Funds Management: Program delays | | | - 18,027 |
| | Program increase: Sensors and processing systems technology | | | + 1,500 |
| 59 | Distributed Learning Advanced Technology Development | 13,564 | 11,564 | - 2,000 |

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|--|----------------------|--------------------------|-----------------------------|
| | Improving funds management: Prior year carryover | | | - 2,000 |
| 61 | Quick Reaction Special Projects | 69,626 | 59,626 | - 10,000 |
| | Improving funds management: Prior year carryover | | | - 10,000 |
| 64 | Test & Evaluation Science & Technology | 96,389 | 132,389 | + 36,000 |
| | Program Increase: Additive manufacturing for hypersonic affordability | | | + 5,000 |
| | Program Increase: Advanced technology development | | | + 16,000 |
| | Program increase: Hypersonics and directed energy test .. | | | + 10,000 |
| | Program increase: Workforce development | | | + 5,000 |
| 65 | Operational Energy Capability Improvement | 40,582 | 40,582 | |
| | Improving funds management: Prior year carryover | | | - 5,000 |
| | Program increase | | | + 5,000 |
| 71 | Environmental Security Technical Certification Program | 40,016 | 42,016 | + 2,000 |
| | Program increase: Technology demonstration program | | | + 2,000 |
| 72 | Ballistic Missile Defense Terminal Defense Segment | 214,173 | 398,273 | + 184,100 |
| | Program increase: USFK JEON | | | + 184,100 |
| 73 | Ballistic Missile Defense Midcourse Defense Segment | 926,359 | 803,359 | - 123,000 |
| | Improving funds management: Boosters with RKV's funded in Public Law 115-141 | | | - 52,000 |
| | Improving funds management: NRE funded in Public Law 115-141 | | | - 65,000 |
| | Transfer funding for missile field components to Procurement, Defense-wide, line 27 for proper execution: Transfer requested by Missile Defense Agency | | | - 41,000 |
| | Program increase: Cybersecurity | | | + 10,000 |
| | Program increase: Discrimination capabilities | | | + 25,000 |
| 74 | Chemical and Biological Defense Program—Dem/Val | 129,886 | 113,496 | - 16,390 |
| | Improving Funds Management: Program delays | | | - 16,390 |
| 75 | Ballistic Missile Defense Sensors | 220,876 | 359,176 | + 138,300 |
| | Program increase: Cybersecurity | | | + 5,000 |
| | Program increase: Discrimination capabilities | | | + 93,000 |
| | Program increase: Systems engineering | | | + 16,300 |
| | Program increase: USFK JEON | | | + 24,000 |
| 76 | BMD Enabling Programs | 540,926 | 638,426 | + 97,500 |
| | Program increase: Cyber assessment | | | + 16,200 |
| | Program increase: Cybersecurity | | | + 40,000 |
| | Program increase: Discrimination capabilities | | | + 4,000 |
| | Program increase: Facilities, sustainment, restoration and modernization | | | + 3,200 |
| | Program increase: Systems engineering | | | + 34,100 |
| 78 | AEGIS BMD | 767,539 | 773,520 | + 5,981 |
| | Program increase: Discrimination capabilities | | | + 4,000 |
| | Program increase: Facilities, sustainment, restoration and modernization | | | + 1,981 |
| 81 | Ballistic Missile Defense Command and Control, Battle Management and Communication | 475,168 | 565,368 | + 90,200 |
| | Restoring acquisition accountability: Spiral 8.2-3 scope adjustment | | | - 6,200 |
| | Restoring acquisition accountability: BMDS Increment 8 early to need | | | - 7,100 |
| | Program increase: Cybersecurity | | | + 10,000 |
| | Program increase: Mobile sensor integration | | | + 93,500 |
| 85 | Sea Based X-Band Radar [SBX] | 149,715 | 136,715 | - 13,000 |
| | Improving funds management: Software upgrades funded in Public Law 115-141 | | | - 13,000 |
| 87 | Ballistic Missile Defense Test | 365,681 | 518,848 | + 153,167 |
| | Program increase: Cybersecurity | | | + 20,000 |
| | Program increase: Facilities, sustainment, restoration and modernization | | | + 29,000 |
| | Program increase: HALO | | | + 32,267 |
| | Program increase: USFK JEON | | | + 71,900 |
| 88 | Ballistic Missile Defense Targets | 517,852 | 561,352 | + 43,500 |
| | Improving funds management: Boosters with RKV's funded in Public Law 115-141 | | | - 36,000 |

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|--|----------------------|--------------------------|-----------------------------|
| | Program increase: Cybersecurity | | | + 5,000 |
| | Program increase: Special programs target | | | + 70,000 |
| | Program increase: USFK JEON | | | + 4,500 |
| 91 | Department of Defense Corrosion Program | 3,477 | 8,477 | + 5,000 |
| | Program increase | | | + 5,000 |
| 92 | Technology Maturation Initiatives | 148,822 | 316,822 | + 168,000 |
| | Transfer from line 39 for low power laser demonstrator prototypes post-PDR risk reduction through PDR only .. | | | + 78,000 |
| | Program increase: Cybersecurity | | | + 5,000 |
| | Program increase: Laser scaling for boost phase intercept .. | | | + 85,000 |
| 93 | Missile Defeat Project | 58,607 | 43,607 | - 15,000 |
| | Classified Adjustment | | | - 15,000 |
| 94 | Counter Improvised-Threat Demonstration, Prototype Develop- ment, and Testing | 12,993 | | - 12,993 |
| | JIDO unjustified base budget request | | | - 12,993 |
| 95 | Hypersonic Defense | 120,444 | 130,944 | + 10,500 |
| | Program increase: Hypersonic Defense | | | + 10,500 |
| 96 | Advanced Innovative Technologies | 1,431,702 | 1,496,336 | + 64,634 |
| | Classified Adjustment | | | - 24,366 |
| | Program increase: Machine learning and advanced manu- facturing | | | + 25,000 |
| | Program increase: Rail gun with hypervelocity projectile .. | | | + 14,000 |
| | Program increase: Quartermaster Pathfinder | | | + 50,000 |
| 96A | Joint Artificial Intelligence Center | | 83,000 | + 83,000 |
| | Program increase: Artificial intelligence | | | + 83,000 |
| 97 | Trusted & Assured Microelectronics | 233,142 | 595,642 | + 362,500 |
| | Program increase: Next generation microelectronics | | | + 347,000 |
| | Program increase: Joint federated assurance center | | | + 10,000 |
| | Program increase: New trust approach development | | | + 5,500 |
| 99 | Department of Defense (DoD) Unmanned System Common De- velopment | 3,781 | 7,781 | + 4,000 |
| | Program increase: Unmanned traffic management | | | + 4,000 |
| 100 | Pacific Discriminating Radar | 95,765 | 73,147 | - 22,618 |
| | Restoring acquisition accountability: MD51 early to need .. | | | - 22,618 |
| 105 | Improved Homeland Defense Interceptors | 561,220 | 421,820 | - 139,400 |
| | Improving funds management: Boosters with RKVs funded in Public Law 115-141 | | | - 139,400 |
| 111 | Ballistic Missile Defense Midcourse Segment Test | 81,934 | 72,634 | - 9,300 |
| | Improving funds management: Boosters with RKVs funded in Public Law 115-141 | | | - 9,300 |
| 112 | Multi-Object Kill Vehicle | 8,256 | 3,256 | - 5,000 |
| | Restoring acquisition accountability: Program adjustment .. | | | - 5,000 |
| 117 | Ballistic Missile Defense System Space Programs | 16,484 | 121,984 | + 105,500 |
| | Program increase: Cybersecurity | | | + 5,000 |
| | Program increase: Missile Defense Tracking System | | | + 100,500 |
| 119 | Prompt Global Strike Capability Development | 263,414 | 615,914 | + 352,500 |
| | Program increase: Program acceleration | | | + 345,000 |
| | Program increase | | | + 7,500 |
| 120 | Chemical and Biological Defense Program—EMD | 388,701 | 329,909 | - 58,792 |
| | Improving Funds Management: Program delays | | | - 58,792 |
| 121 | Joint Tactical Information Distribution System [JTIDS] | 19,503 | 29,503 | + 10,000 |
| | Program increase: Integrated kinetic and non-kinetic nodal analysis | | | + 10,000 |
| 133 | Trusted & Assured Microelectronics | 56,178 | 98,678 | + 42,500 |
| | Program increase: Next generation microelectronics | | | + 40,000 |
| | Program increase: New trust approach development | | | + 2,500 |
| 139 | Central Test and Evaluation Investment Development (CTEIP) .. | 258,796 | 278,096 | + 19,300 |
| | Program increase: Advanced hypersonic wind tunnel ex- perimentation | | | + 10,000 |
| | Program increase: Defense threat center of excellence | | | + 9,300 |
| 142 | Joint Mission Environment Test Capability [JMETC] | 84,184 | 89,184 | + 5,000 |
| | Program Increase: Cyber range capacity and development .. | | | + 5,000 |
| 145 | Classified Program USD(P) | | 100,000 | + 100,000 |
| | Classified adjustment | | | + 100,000 |

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|--|----------------------|--------------------------|-----------------------------|
| 150 | General Support to USD (Intelligence) | 1,693 | 5,693 | + 4,000 |
| | Program increase: Academic support | | | + 4,000 |
| 160 | Defense Technology Analysis | 24,487 | 27,487 | + 3,000 |
| | Program increase: Defense lab transfer and transition manufacturing | | | + 3,000 |
| 163 | Development Test and Evaluation | 20,179 | 25,179 | + 5,000 |
| | Program increase: Improve software testing capabilities .. | | | + 5,000 |
| 171 | Defense Operations Security Initiative (DOSI) | 3,008 | 10,008 | + 7,000 |
| | Program increase: Defense operations security initiative .. | | | + 7,000 |
| 177 | Combined Advanced Applications | 21,363 | 16,363 | - 5,000 |
| | Improving funds management: Requirement previously funded | | | - 5,000 |
| 180 | Intelligence Capabilities and Innovation Investments | 109,529 | 259,529 | + 150,000 |
| | Program increase: Artificial intelligence—Project Maven .. | | | + 150,000 |
| 192 | Industrial Base Analysis and Sustainment Support | 10,376 | 63,876 | + 53,500 |
| | Program increase | | | + 3,500 |
| | Program Increase: Expand manufacturing capability for cold rolled aluminum | | | + 10,000 |
| | Program increase: National security technology accelerator | | | + 15,000 |
| | Program Increase: Large scale classified electron beam welding | | | + 15,000 |
| | Program increase: Risk reduction for tungsten defense products | | | + 10,000 |
| 195 | Chemical and Biological Defense (Operational Systems Development) | 48,741 | 42,385 | - 6,356 |
| | Improving Funds Management: Program delays | | | - 6,356 |
| 234 | Homeland Defense Technology Transfer Program | 2,198 | 1,198 | - 1,000 |
| | Improving funds management: Prior year carryover | | | - 1,000 |
| 248 | Aviation Systems | 184,993 | 182,862 | - 2,131 |
| | Improving Funds Management: TFTA Training System Development early to need | | | - 3,879 |
| | Insufficient budget justification: EC-130J risk reduction .. | | | - 1,252 |
| | Program increase: VTOL UAS research | | | + 3,000 |
| 251 | Warrior Systems | 46,942 | 55,642 | + 8,700 |
| | Improving Funds Management: Ordnance Items DTE excess growth | | | - 4,000 |
| | Improving Funds Management: CUAS Test and Evaluation excess growth | | | - 3,800 |
| | Program Increase: Rotary wing aviation helmet | | | + 1,500 |
| | Program increase: Small glide munition UAS integration .. | | | + 15,000 |
| 253 | Unmanned ISR | 27,270 | 33,270 | + 6,000 |
| | Program increase: UAS anti-icing | | | + 6,000 |
| 258 | Teleport Program | 2,323 | 723 | - 1,600 |
| | Improving funds management: Unjustified growth | | | - 1,600 |
| 300 | National Security Innovation Activities | | 75,000 | + 75,000 |
| | Program increase: Capital investment—Section 217 of Senate NDAA | | | + 75,000 |
| 999 | Classified Programs | 3,877,898 | 3,843,141 | - 34,757 |
| | Classified adjustment | | | - 34,757 |

Trusted Microelectronics.—In the fiscal year 2019 budget submission, the Department requested \$587,320,000 for trusted and assured microelectronics and DARPA’s Electronics Resurgence Initiative. The Committee is pleased to see the Department prioritize programs that will ensure access to trusted microelectronics and develop manufacturing processes for next generation chips. However, the Committee notes that additional funds are needed in fiscal year 2019 for the United States to maintain global microelectronics leadership and added \$447,000,000 above the President’s budget request to accelerate multiple efforts. Therefore, the Com-

mittee directs the Under Secretary of Defense (Research and Engineering) to provide a report to the congressional defense committees not later than 180 days after enactment of this act which details a plan for using increased resources to accelerate the trusted microelectronics strategy and roadmap. The report shall also include a definition of the scope of the microelectronics problem; an update on domestic manufacturing capability and infrastructure needed to provide legacy and future chips for our weapons systems; and testing protocols that the Department is utilizing to ensure current microelectronics have achieved security assurance.

Artificial Intelligence.—The Committee understands the importance of investing in high priority advanced technology areas such as artificial intelligence [AI] and machine learning in order to maintain the United States' military superiority and technological edge over near-peer adversaries. Accordingly, the Committee adds \$308,000,000 in addition to amounts requested in the fiscal year 2019 budget submission to achieve dominant AI capabilities, including an additional \$150,000,000 for the algorithmic warfare cross function team also known as Project Maven and \$83,000,000 to establish a Joint Artificial Intelligence Center. The Committee believes these critical investments will accelerate the pursuit of state of the art AI systems that can be rapidly adapted to the warfighting mission needs of the Department. Therefore, the Committee directs the Under Secretary of Defense (Research and Engineering) to brief the congressional defense committees with a comprehensive plan to execute additional funding provided for AI and machine learning not later than 180 days after enactment of this act and strongly encourages the Department to establish long-term, strategic partnerships with non-traditional defense contractors that operate outside of the traditional defense industrial base.

Short-Wave Infrared Cameras.—The Committee is aware of recent advances in ultra-fast short-wave infrared camera technology that rapidly capture images and detect threats with extreme sensitivity and precision. New advances in machine vision, powered by rapidly growing artificial intelligence and neuromorphic technologies can absorb and process data at much higher rates. The Committee encourages the Secretary of Defense to increase its research investments into these areas with the goal of creating new threat identification systems.

Manufacturing Technology Program.—The Committee understands that metal castings play a significant role in ensuring warfighter preparedness and that investment is needed in castings technology to maintain technological superiority in the advanced manufacturing industry. Therefore, the Committee provides an additional \$5,000,000 for the Manufacturing Technology Program and encourages the Secretary of Defense to invest in metal castings technology.

All Solid-State Battery Technology.—The Committee recognizes that development of all solid-state battery technology could dramatically increase the energy density of current batteries while providing a safer power system by eliminating the need for a flammable electrolyte and reducing the complexity of the battery management system. Batteries with higher energy densities would improve a soldier's warfighting capability by reducing the weight of

multiple batteries required for combat operations. The Committee encourages the Secretary of Defense to continue investments that improve battery densities thereby reducing the weight carried by soldiers in the field.

Strategic and Critical Minerals.—The Committee understands that the United States is reliant on the importation of strategic and critical minerals that are essential to national defense and believes that the Department of Defense should be integrated into the comprehensive Federal strategy as directed by Executive Order 13817. Therefore, the Committee directs the Under Secretary of Defense (Research and Engineering) and the Director of the Defense Logistics Agency to produce a joint report to the congressional defense committees not later than 180 days after enactment of this act which details Department of Defense acquisition programs that require strategic and critical minerals, foreign sources of these minerals, and current supply levels of critical minerals in US stockpiles available for Department usage. In addition, the report should describe Department agencies that are capable of performing topographic, geologic, and geophysical mapping of the United States and a list of strategic and critical minerals that should be prioritized for mapping in order to enhance supply chain security.

Manufacturing Engineering Programs.—The Committee recognizes that the United States must maintain a technically trained workforce to meet the defense industrial base requirements of the Department of Defense. Therefore, the Committee recommends an additional \$5,000,000 above the fiscal year 2019 President’s budget request for manufacturing engineering grants and encourages the Secretary of Defense to prioritize funding under this program to support community colleges and technical schools.

National Defense Education Program.—The Committee understands that the Nation’s global economic competitiveness and national security are dependent on a strong foundation in science, technology, engineering and math and believes that increased investment is needed by the Department in these fields. Therefore, the Committee provides an increase in basic research funds for the National Defense Education Program and encourages the Department to partner with the Goldwater Foundation for additional education scholarships.

OPERATIONAL TEST AND EVALUATION, DEFENSE

| | |
|--------------------------------|---------------|
| Appropriations, 2018 | \$210,900,000 |
| Budget estimate, 2019 | 221,009,000 |
| Committee recommendation | 381,009,000 |

The Committee recommends an appropriation of \$381,009,000. This is \$160,000,000 above the budget estimate.

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|--|----------------------|--------------------------|-----------------------------|
| 1 | Operational Test and Evaluation | 85,685 | 85,685 | ..... |
| 2 | Live Fire Test and Evaluation | 64,332 | 64,332 | ..... |
| 3 | Operational Test Activities and Analyses | 70,992 | 230,992 | + 160,000 |
| | Program increase for T&E infrastructure ..... | ..... | ..... | + 150,000 |
| | Program increase: Advanced satellite navigation receiver ..... | ..... | ..... | + 10,000 |
| | Total, Operational Test and Evaluation, Defense | 221,009 | 381,009 | + 160,000 |

Cyber Red Team Testing.—The Committee recognizes the Department's efforts to enhance and develop cyber threat emulation capabilities through the use of cyber Red Teams. The Committee is concerned with the volume of cyber intrusions that threaten our weapons systems and remains concerned with the inability of the Department of Defense to get ahead of this constant evolving threat. Therefore, the Committee directs the Director, Office of Operational Test and Evaluation, in consultation with the Secretary of Defense, to provide a report to the congressional defense committees not later than 90 days of enactment of this act on the cyber vulnerabilities of the nation's critical weapons systems. The classified report should outline the identified threats along with the resources required to mitigate such threats. Further, in cases where vulnerabilities were determined for a weapons system, the Director shall provide an explanation of what actions have been taken to date to address such deficiencies.

TITLE V
 REVOLVING AND MANAGEMENT FUNDS
 DEFENSE WORKING CAPITAL FUNDS

Appropriations, 2018 \$1,685,596,000
 Budget estimate, 2019 1,542,115,000
 Committee recommendation 1,641,115,000

The Committee recommends an appropriation of \$1,641,115,000. This is \$99,000,000 above the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table summarizes the budget estimate for this appropriation, the Committee recommendation, and the Committee recommended adjustments to the budget estimate:

[In thousands of dollars]

| Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|---|----------------------|--------------------------|-----------------------------|
| Arsenals Initiative | 59,002 | 158,002 | + 99,000 |
| Program increase | | | + 99,000 |
| Supply Management | 99,763 | 99,763 | |
| Total, Defense Working Capital Fund, Army | 158,765 | 257,765 | + 99,000 |
| Supplies and Materials | 69,054 | 69,054 | |
| Total, Defense Working Capital Fund, Air Force | 69,054 | 69,054 | |
| Defense Logistics Agency | 48,096 | 48,096 | |
| Total, Defense Working Capital Fund, Defense-wide | 48,096 | 48,096 | |
| Commissary Operations | 1,266,200 | 1,266,200 | |
| Total, Defense Working Capital Fund, Defense-wide, DECA | 1,266,200 | 1,266,200 | |
| Grand Total, Defense Working Capital Funds | 1,542,115 | 1,641,115 | + 99,000 |

Meals Ready-to-Eat.—The Committee recommends full funding for the Defense Logistics Agency’s request of 2.5 million cases of Meals Ready to Eat and reaffirms its support for the War Reserve stock objective of 5.0 million cases and the minimum sustainment rate for the industrial base.

Defense Commissary Agency.—The Department of Defense recently announced its intention to begin the sale of beer and wine in defense commissaries. The Committee supports this decision as a measure to increase customer convenience and satisfaction. However, the Committee notes that the sale of distilled spirits is not included in the new policy. Since military commissary stores are intended to be similar to commercial grocery stores and roughly half

of States legally sell distilled spirits in grocery stores, the Committee believes that the Department should have explored this option to further improve customer convenience at all military commissaries. The Committee directs the Undersecretary of Defense (Personnel and Readiness) to review the policy for sale of alcohol at military commissaries and submit a report to the House and Senate Appropriations Committees not later than 90 days after the enactment of this act on the decisions which led to the exclusion of distilled spirits and whether the Department will reconsider its decision to restrict the sale of distilled spirits in military commissaries.

TITLE VI
OTHER DEPARTMENT OF DEFENSE PROGRAMS
DEFENSE HEALTH PROGRAM

Appropriations, 2018 \$34,428,167,000
 Budget estimate, 2019 33,729,192,000
 Committee recommendation 34,135,992,000

The Committee recommends an appropriation of \$34,135,992,000.
 This is \$406,800,000 above the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table summarizes the budget estimate for this appropriation, the Committee recommendation, and the Committee recommended adjustments to the budget estimate:

(In thousands of dollars)

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|---|----------------------|--------------------------|-----------------------------|
| | DEFENSE HEALTH PROGRAM | | | |
| | OPERATION AND MAINTENANCE | | | |
| 10 | IN-HOUSE CARE | 9,738,569 | 9,499,169 | - 239,400 |
| 20 | PRIVATE SECTOR CARE | 15,103,735 | 14,875,735 | - 228,000 |
| 30 | CONSOLIDATED HEALTH SUPPORT | 2,107,961 | 2,054,961 | - 53,000 |
| 40 | INFORMATION MANAGEMENT | 2,039,878 | 2,029,878 | - 10,000 |
| 50 | MANAGEMENT ACTIVITIES | 307,629 | 307,629 | ..... |
| 60 | EDUCATION AND TRAINING | 756,778 | 737,278 | - 19,500 |
| 70 | BASE OPERATIONS/COMMUNICATIONS | 2,090,845 | 2,084,345 | - 6,500 |
| | SUBTOTAL, OPERATION AND MAINTENANCE | 32,145,395 | 31,588,995 | - 556,400 |
| | PROCUREMENT | | | |
| 150 | INITIAL OUTFITTING | 33,056 | 33,056 | ..... |
| 160 | REPLACEMENT AND MODERNIZATION | 343,424 | 343,424 | ..... |
| 180 | DOD HEALTH MANAGEMENT SYSTEM MODERNIZATION | 496,680 | 496,680 | ..... |
| | SUBTOTAL, PROCUREMENT | 873,160 | 873,160 | ..... |
| | RESEARCH DEVELOPMENT TEST AND EVALUATION | | | |
| 80 | RESEARCH | 11,386 | 11,386 | ..... |
| 90 | EXPLORATORY DEVELOPMENT | 75,010 | 75,010 | ..... |
| 100 | ADVANCED DEVELOPMENT | 275,258 | 275,258 | ..... |
| 110 | DEMONSTRATION/VALIDATION | 117,529 | 117,529 | ..... |
| 120 | ENGINEERING DEVELOPMENT | 151,985 | 151,985 | ..... |
| 130 | MANAGEMENT AND SUPPORT | 63,755 | 63,755 | ..... |
| 140 | CAPABILITIES ENHANCEMENT | 15,714 | 15,714 | ..... |
| 150 | UNDISTRIBUTED MEDICAL RESEARCH ..... | ..... | 963,200 | + 963,200 |
| | SUBTOTAL, RESEARCH DEVELOPMENT TEST AND EVALUATION | 710,637 | 1,673,837 | + 963,200 |
| | TOTAL, DEFENSE HEALTH PROGRAM | 33,729,192 | 34,135,992 | + 406,800 |

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

| Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|--|----------------------|--------------------------|-----------------------------|
| Operation and Maintenance | 32,145,395 | 31,588,995 | - 556,400 |
| In-House Care | 9,738,569 | 9,499,169 | - 239,400 |
| Improving funds management: Travel excess growth | | | - 5,300 |
| Improving funds management: Printing and reproduction excess growth | | | - 4,100 |
| Improving funds management: Pharmaceutical drugs excess growth | | | - 140,000 |
| Improving funds management: Medical care contracts excess growth | | | - 90,000 |
| Private Sector Care | 15,103,735 | 14,875,735 | - 228,000 |
| Improving funds management: Pharmaceutical drugs excess growth | | | - 93,000 |
| Improving funds management: Historical underexecution | | | - 135,000 |
| Consolidated Health Support | 2,107,961 | 2,054,961 | - 53,000 |
| Improving funds management: Medical care contracts excess growth | | | - 53,000 |
| Information Management/IT | 2,039,878 | 2,029,878 | - 10,000 |
| Program increase: Med-COI infrastructure | | | + 70,000 |
| Improving funds management: GENESIS deployment delay | | | - 55,000 |
| Improving funds management: TMIP-J funds excess to need | | | - 20,000 |
| Improving funds management: JOMIS funds excess to need | | | - 5,000 |
| Management Activities | 307,629 | 307,629 | |
| Education and Training | 756,778 | 737,278 | - 19,500 |
| Program increase: Specialized medical pilot program | | | + 2,500 |
| Improving funds management: Historical underexecution | | | - 22,000 |
| Base Operations and Communications | 2,090,845 | 2,084,345 | - 6,500 |
| Improving funds management: Visual information systems underexecution | | | - 3,000 |
| Improving funds management: Defense Health Headquarters protection excess growth | | | - 3,500 |
| Procurement | 873,160 | 873,160 | |
| Research and Development | 710,637 | 1,673,837 | + 963,200 |
| Restore core funding reduction | | | + 201,700 |
| Peer-reviewed ALS research | | | + 10,000 |
| Peer-reviewed breast cancer research | | | + 120,000 |
| Peer-reviewed cancer research | | | + 80,000 |
| Peer-reviewed epilepsy research | | | + 7,500 |
| Peer-reviewed medical research | | | + 330,000 |
| Peer-reviewed melanoma research | | | + 10,000 |
| Peer-reviewed ovarian cancer research | | | + 10,000 |
| Peer-reviewed prostate cancer research | | | + 64,000 |
| Peer-reviewed traumatic brain injury and psychological health research | | | + 60,000 |
| Chronic pain management | | | + 10,000 |
| Joint warfighter medical research | | | + 50,000 |
| Orthotics and prosthetics outcomes research | | | + 10,000 |
| Total | 33,729,192 | 34,135,992 | + 406,800 |

Defense Health Program Reprogramming Procedures.—The Committee remains concerned regarding the transfer of funds from the In-House Care budget sub-activity to pay for contractor-provided medical care. To limit such transfers and improve oversight within the Defense Health Program operation and maintenance account,

the Committee includes a provision which caps the funds available for Private Sector Care under the TRICARE program subject to prior approval reprogramming procedures. The provision and accompanying report language should not be interpreted by the Department as limiting the amount of funds that may be transferred to the Direct Care System from other budget activities within the Defense Health Program. In addition, funding for the In-House Care and Private Sector Care budget sub-activities are designated as congressional special interest items. Any transfer of funds in excess of \$15,000,000 into or out of these sub-activities requires the Secretary of Defense to follow prior approval reprogramming procedures.

The Committee directs the Secretary of Defense to provide written notification to the congressional defense committees of cumulative transfers in excess of \$10,000,000 out of the Private Sector Care budget sub-activity not later than fifteen days after such a transfer. The Committee further directs the Assistant Secretary of Defense (Health Affairs) to provide quarterly reports to the congressional defense committees on budget execution data for all of the Defense Health Program budget activities and to adequately reflect changes to the budget activities requested by the Services in future budget submissions.

Carryover.—For fiscal year 2019, the Committee recommends 1 percent carryover authority for the operation and maintenance account of the Defense Health Program. The Committee directs the Assistant Secretary of Defense (Health Affairs) to submit a detailed spend plan for any fiscal year 2018 designated carryover funds to the congressional defense committees not less than 30 days prior to executing the carryover funds.

Resolution of Payments to State Vaccine Programs.—The Department of Defense Appropriations Act, 2018 (Public Law 115–141) directed the Assistant Secretary of Defense (Health Affairs) to prioritize the payment of arrears to state vaccine programs in expediture of fiscal year 2018 carryover funds. The Committee directs the Assistant Secretary of Defense (Health Affairs) to provide a report to the congressional defense committees not later than 45 days after enactment of this act on how the Department plans to make final payment of arrears to state vaccine programs.

Operation and Maintenance Reductions.—The fiscal year 2019 President's budget request includes Department-initiated reductions in most Operation and Maintenance sub-activities to account for the Government Accountability Office's analysis of prior year execution. The Committee commends the Department for taking this step and expects future budget requests to align with recent execution trends. The Committee notes that the budget justification materials for the Defense Health Program do not delineate operation and maintenance funding between the Defense Health Agency, Army, Navy, Air Force, Uniformed Services University of Health Sciences, and National Capital Region Medical Directorate. Given this lack of granular visibility, the Department is expected to implement operation and maintenance reductions among the various components in accordance with their historical underexecution.

Electronic Health Record.—The Committee remains supportive of the goal of the Departments of Defense and Veterans Affairs to develop fully interoperable electronic health records that can exchange data in a meaningful way and be used in a dynamic environment to improve patient care and facilitate smoother transitions for servicemembers from military service to veteran status. After achieving initial operating capability in November 2017 with completion of deployment to four sites in the Pacific Northwest, the Department decided to undertake an eight week Stabilization and Adoption period in order to evaluate the initial deployments. This evaluation included an analysis of roles, workflows, and training activities and further collection of user feedback in order to implement changes prior to continuing the wave deployment schedule to more military treatment facilities, with a decision on further deployments scheduled for January 2019.

Given this delay in the deployment of the Military Health System [MHS] GENESIS program, the Committee recommends a reduction of \$80,000,000 to the fiscal year 2019 President's budget request and a rescission of \$215,000,000 of fiscal year 2018 procurement funds in order to properly realign resources to a revised deployment plan. The Committee also recommends \$70,000,000 above the budget request for the Medical Community of Interest [Med-COI], the IT infrastructure backbone of the new electronic health record, as the Department has acknowledged that Med-COI deployment should precede MHS GENESIS deployment by 6 months at each site. The Committee expects that execution information for these additional funds will be clearly laid out in the fiscal year 2020 budget justification materials. The Committee understands that the next 6 months will be an important time for MHS GENESIS with upcoming program decisions on a plan for expanding Med-COI in July 2018, an updated Life Cycle Cost Estimate in Fall 2018, and a decision on further wave deployments in January 2019. The Committee anticipates timely updates as these program decisions are made.

The Program Executive Officer, Defense Healthcare Management Systems [PEO DHMS], in conjunction with the Director of the Interagency Program Office [IPO], is directed to provide quarterly reports to the congressional defense committees on the cost and schedule of the program, to include milestones, knowledge points, and acquisition timelines, as well as quarterly obligation reports. These reports should also include the following: (1) any changes to the deployment timeline, including benchmarks, for full operating capability; (2) any refinements to the cost estimate for full operating capability and the total life cycle cost of the project; and (3) the progress toward developing, implementing, and fielding the interoperable electronic health record throughout the two Departments' medical facilities. The Committee further directs the PEO DHMS to continue briefing the House and Senate Defense Appropriations Subcommittees on a quarterly basis, coinciding with the report submission.

Finally, the Committee directs the IPO to continue to provide quarterly reports to the House and Senate Subcommittees on Appropriations for Defense and Military Construction, Veterans Af-

fairs, and Related Agencies on the progress of interoperability between the two Departments.

Traumatic Brain Injury [TBI]/ Psychological Health.—The Committee recommends \$60,000,000 above the fiscal year 2019 President's budget request for continued research into treatment, prevention, and detection of TBI and improved psychological health. The Committee directs the Assistant Secretary of Defense (Health Affairs) to submit a report to the congressional defense committees not later than 180 days of enactment of this act on expenditure and obligation data of additional funding added by Congress for psychological health and TBI. This report should include information on agreements made with other government agencies.

Additionally, the Committee is aware of recent medical advances in drug development for neurodegenerative diseases and encourages the Department to further its research into developing drugs that reverse, halt, or slow the neurodegenerative process associated with TBI including opportunities through public-private partnerships, such as the Medical Technology Consortium. The Committee is also aware of efforts to establish a brain donor network to better understand mild traumatic brain injury and identify biomarkers for diagnosis and monitoring. The Committee supports expansion of this network and inclusion of states with high populations of veterans and suicide incidence into this research. Finally, the Committee is encouraged by the advancement of expeditionary, non-invasive medical devices for analyzing the full spectrum of TBI that have received clearance by the U.S. Food and Drug Administration. These devices provide clinicians with a comprehensive and objective clinical picture to help them identify the full spectrum of brain injuries shortly after injury, and the Committee encourages continued test and evaluation of such devices.

Peer-Reviewed Medical Research Program.—The Committee recommends \$330,000,000 for the Peer-Reviewed Medical Research Program. The Committee directs the Secretary of Defense, in conjunction with the Service Surgeons General, to select medical research projects of clear scientific merit and direct relevance to military health. Research areas considered under this funding are restricted to: acute lung injury, antimicrobial resistance, arthritis, autism, burn pit exposure, cardiomyopathy, chronic migraine and post-traumatic headache, congenital heart disease, constrictive bronchiolitis, diabetes, dystonia, eating disorders, emerging infectious diseases, epidermolysis bullosa, focal segmental glomerulosclerosis, frontotemporal degeneration, Guillain-Barre Syndrome, gulf war illness, hearing regeneration and restoration, hemorrhage control, hepatitis B, hereditary angioedema, hydrocephalus, immunomonitoring of intestinal transplants, inflammatory bowel diseases, interstitial cystitis, lung injury, lupus, metals toxicology, mitochondrial disease, multiple sclerosis, musculoskeletal conditions, myotonic dystrophy, nanomaterials for bone regeneration, neurofibromatosis, nutrition optimization, orthopedics, pancreatitis, Parkinson's, pathogen-inactivated blood products, polycystic kidney disease, post-traumatic osteoarthritis, pressure ulcers, pulmonary fibrosis, reconstructive transplantation, resilience training, respiratory health, Rett syndrome, rheumatoid arthritis, scleroderma, sleep disorders, spinal muscular atrophy,

tinnitus, tissue regeneration, tuberculosis, tuberous sclerosis complex, vascular malformations, vision, and women's heart disease. The Committee emphasizes that the additional funding provided under the Peer-Reviewed Medical Research Program shall be devoted only to the purposes listed above.

Joint Warfighter Medical Research Program.—The Committee recommends \$50,000,000 for the Joint Warfighter Medical Research Program. Funds shall be used to augment and accelerate high priority Department of Defense and Service medical requirements and to continue both core and congressionally-directed prior year initiatives that are close to achieving their objectives and yielding a benefit to military medicine. These funds shall not be used for new projects or basic research, and they shall be awarded at the discretion of the Secretary of Defense following a review of medical research and development gaps, as well as unfinanced medical requirements of the Services. Further, the Committee directs the Assistant Secretary of Defense (Health Affairs) to provide a report not later than 180 days after the enactment of this act to the congressional defense committees, which lists the projects that receive funding. The report should include the funding amount awarded to each project, a thorough description of each project's research, and the benefit the research will provide to the Department of Defense.

Peer-Reviewed Cancer Research Programs.—The Committee recommends \$120,000,000 for the peer-reviewed breast cancer research program, \$64,000,000 for the peer-reviewed prostate cancer research program, \$10,000,000 for the peer-reviewed ovarian cancer research program, \$10,000,000 for a peer-reviewed melanoma research program, and \$80,000,000 for the peer-reviewed cancer research program that would research cancers not addressed in the aforementioned programs currently executed by the Department of Defense.

The funds provided in the peer-reviewed cancer research program are directed to be used to conduct research in the following areas: bladder cancer, blood cancers, brain cancer, colorectal cancer, immunotherapy, kidney cancer, liver cancer, mesothelioma, neuroblastoma, pancreatic cancer, pediatric brain tumors, rare cancers, and stomach cancer.

The funds provided under the peer-reviewed cancer research program shall be used only for the purposes listed above. The Committee directs the Assistant Secretary of Defense (Health Affairs) to provide a report not later than 180 days after the enactment of this act to the congressional defense committees on the status of the peer-reviewed cancer research program. For each research area, the report should include the funding amount awarded, the progress of the research, and the relevance of the research to servicemembers.

Orthotics and Prosthetics Outcomes Research.—The Committee recommends \$10,000,000 in support of orthotics and prosthetics outcomes research. The focus of this research should be on outcomes-based best practices through analysis of the merits of clinical options currently available, not on the development or improvement of new and existing technology. The Committee directs the Assistant Secretary of Defense (Health Affairs) to provide a report

not later than 180 days after the enactment of this act to the congressional defense committees on the peer-reviewed projects that receive funding. The report should include the funding amount awarded to each project and the anticipated effect on patient care.

Advanced Orthopedic Surgical Training.—The Committee understands that servicemembers and their families regularly undergo orthopedic procedures and that these types of musculoskeletal injuries account for a significant amount of medical separations or retirements from military service. Delivery of direct training based on best practices related to orthopedic procedures for injuries to the knee, shoulder, and other extremities has become an increasingly important readiness issue. The Committee strongly encourages the Assistant Secretary of Defense (Health Affairs) to provide military orthopedic health professionals advanced surgical training in arthroscopic techniques and do so in partnership with medical professional societies that maintain best practices related to arthroscopic surgery and techniques.

Mental Health Professionals.—The Committee recognizes that servicemembers and their families face unique stresses beyond those of everyday life. After over 15 years of war, the need for mental health professionals in the Department is at an all-time high, and the Committee believes that every beneficiary of the Military Health System should have timely access to mental health services. However, the Committee is concerned with the Department's inability to recruit and retain enough psychiatrists, psychologists, social workers, nurse practitioners, and registered nurses to provide adequate mental healthcare.

The Government Accountability Office review of this issue found that progress is being made regarding the annual reporting of mental health professional staffing needs. However, GAO also noted that the Services need to accurately report any additional measures used to supplement the Psychological Health Risk-Adjusted Model for Staffing [PHRAMS] as well as report their PHRAMS-generated estimates in the requirements fields of the Defense Health Agency's quarterly mental health staffing reports.

The Committee encourages the Assistant Secretary of Defense (Health Affairs), the Director of the Defense Health Agency, and the Service Surgeons General to continue to work together to ensure annual estimates of mental health professionals meet the needs of all beneficiaries in the military health system. In addition, the Assistant Secretary of Defense (Health Affairs) is directed to prepare as part of DHA's fiscal year 2020 budget submission a review of these estimates as well as an outline of current challenges in recruiting and retaining mental health professionals by the Department of Defense.

Chronic Pain Management Research.—The Committee recommends \$10,000,000 for a chronic pain management research program to research opioid-alternative or non-addictive methods to treat and manage chronic pain. Chronic pain is defined as a pain that occurs on at least half the days for 6 months or more, and which can be caused by issues including, but not limited to: combat- and training-related physical or mental stress and trauma, migraines and chronic headaches, traumatic brain injury, arthritis, muscular-skeletal conditions, neurological disease, tick and vector-

borne disease, other insect-transmitted or tropical disease, and cancer. The funds provided in the chronic pain management research program shall be used to conduct research on the effects of using prescription opioids to manage chronic pain and for researching alternatives, namely non-opioid or non-addictive methods to treat and manage chronic pain, with a focus on issues related to military populations. The Committee encourages the Department to collaborate with non-military research institutions, such as the institutions of the National Institutes of Health Pain Consortium, and the institutions represented in the Interagency Pain Research Coordinating Committee, to address the efforts outlined in the 2016 National Pain Strategy.

Warfighter Respiratory Health.—The Committee remains concerned about respiratory ailments among deployed and returning servicemembers and their deleterious effects on combat and personnel readiness. It is estimated that respiratory diseases affect more than 100,000 servicemembers each year and result in almost 27,000 lost workdays per year. The Committee has included respiratory health as part of the Peer-Reviewed Medical Research Program and believes that further development of a comprehensive, broad-based warfighter respiratory research program is necessary to support overall readiness. The Assistant Secretary of Defense (Health Affairs) is directed to provide a report to the congressional defense committees not later than 120 days after the enactment of this act detailing the scope and impact of respiratory illness on military personnel—particularly on deployed troops—dating from the first Gulf War to the present.

Epilepsy Research.—The Committee is concerned about the large number of service men and women returning from combat zones who have sustained traumatic brain injuries [TBI] and the long term consequences of TBI. These wounded warriors are at high risk for developing post-traumatic epilepsy, depression, cognitive difficulties, and post-traumatic stress disorder, which may be interconnected. As current TBI longitudinal studies have not included epilepsy, the Committee encourages the Department to place greater priority and invest more funding in longitudinal epidemiological research, including epilepsy surveillance, to better understand the magnitude of the problem and improve patient care and outcomes. To assist in these efforts, the Committee recommends \$7,500,000 in support of epilepsy research. Additionally, the Committee urges the Department to expand research into the mechanisms by which brain injury produces epilepsy and research directed at the prevention of epilepsy and concomitant comorbidities in those known to be at high risk.

Melanoma Research.—The Committee understands that melanoma diagnoses are increasing among active duty servicemembers and that melanoma is the fifth most common cancer among veterans. Recent research suggests that exposure to high levels of solar radiation in young adulthood is associated with a higher risk of melanoma mortality. Given the extreme and harsh conditions servicemembers face in theater and the rise of this aggressive and frequently deadly form of cancer, the Committee encourages the Department to continue its investments in melanoma research and

recommends \$10,000,000 for a peer-reviewed melanoma research program.

Sleep Disorder Research.—The Committee recognizes that sleep disorders are increasingly prevalent among servicemembers and that such disruptions have been associated with diverse mental and physical disorders, including traumatic brain injury and post-traumatic stress. The Committee applauds the Army for acknowledging the importance of sleep in achieving optimal physical, mental, and emotional health and including sleep as a focus in the Performance Triad. In support of this effort, the Committee urges the Department to support basic, translational, and clinical research on how the disruption of normal sleep and circadian biological rhythms adversely affects the health, safety, performance, and productivity of military and civilian populations.

National Trauma Research Action Plan.—The Committee notes that the U.S. military continues to be a leader in trauma research with its core investments in combat casualty care. A 2016 report by the National Academies of Sciences, Engineering, and Medicine estimated that 25 percent of battlefield deaths and 20 percent of civilian deaths after injury could have been prevented by appropriate and timely medical care. This same report recommended creation of a National Trauma Research Action Plan [NTRAP] in order to coordinate research between the military and civilian sectors and work towards achieving zero preventable trauma deaths. NTRAP may provide the framework for a coordinated research program that would be able to unify and focus research efforts across Federal agencies and identify critical gaps in trauma research. The Committee recommends \$201,700,000 for core Defense Health Program research and encourages the Department to continue its investments in trauma care and creation of NTRAP.

Inclusion of Women and Minorities in the Congressionally-Directed Medical Research Program.—The Committee recognizes that the Congressionally-Directed Medical Research Program supports essential research to respond to the healthcare needs of servicemembers, their dependents, and retirees. In a series of laws, including the 21st Century Cures Act, Congress directed the National Institutes of Health to update relevant policies and implement accountability mechanisms to ensure that research supported by the agency included and conducted the appropriate analysis to identify the differential impact of research interventions on populations that are often underrepresented in clinical research, including women, and racial and ethnic minorities.

To continue improving the inclusion of women and minorities in federally funded research, the Committee directs the Department of Defense to develop a plan to ensure the appropriate representation of women and minorities in its extramural research. Specifically, this plan shall include mechanisms to measure, enforce, assess the adequacy of, and improve the: (1) representation of women and minorities in each clinical trial, as well as the data on the specific challenges researchers face in seeking to include women and minorities in their studies; (2) examination of biological variables, including the appropriate analysis of differential outcomes by sex, in clinical research; (3) practice of making clinical findings, subgroup analyses, and data publicly available, as appropriate and ap-

plicable; and (4) requirements (including, but not limited to, programmatic controls) and updated guidelines to ensure the appropriate representation of women in clinical research. Outcomes should also be analyzed for potential sex differences. This plan should be developed in coordination with the National Institutes of Health and submitted to the congressional defense committees not later than 180 days after the enactment of this act.

Behavioral and Mental Health Care for National Guard and Reserve.—The Committee recognizes that the men and women of the National Guard and Reserve components need greater access to care if they are to maintain a high state of medical readiness to support regularly occurring deployments. It also recognizes that the suicide rate in the reserve components is consistently higher than the suicide rate for both the active duty military and the civilian population. Therefore, the Committee encourages the Department to better ensure that periodic health assessments are followed by medical treatment to address any behavioral or mental health conditions that could impact a servicemember’s ability to deploy, even if such care falls outside of the pre-deployment window. This practice would allow for a more medically ready, deployable force and would expand access to behavioral and mental healthcare for reserve component servicemembers.

Cell-Based Flu Vaccine Research.—Given the negative impacts on servicemember health and military readiness posed by regular seasonal influenza, the Committee is concerned by a potential pandemic and the Department’s capacity and preparedness to address it. The Committee notes that the current flu vaccine may only be 60 percent effective, with some estimates placing this year’s vaccine at 10 percent effective, and believes that the current, antiquated egg-based vaccine production process may contribute to that inefficacy. Therefore, the Committee encourages the Department to emphasize cell-based influenza vaccine research as part of its infectious diseases research.

Armed Forces Institute of Regenerative Medicine.—The Armed Forces Institute of Regenerative Medicine [AFIRM] is a multi-institutional, interdisciplinary network of universities, military laboratories and investigators that is designed to promote a seamless integration of development, from basic science research through translational and clinical research, as the best means of bringing regenerative medicine therapies to practice. It is dedicated to repairing battlefield injuries through the use of regenerative medicine technology and has supported several clinical trials and treated hundreds of patients with novel therapeutic strategies in wound repair and tissue replacement. The Committee understands that fiscal year 2019 is the final year of funding for AFIRM II and strongly encourages the Department to build upon the successes of both AFIRM I and II by renewing the program for another five year period of performance beginning in the fiscal year 2020 budget request.

CHEMICAL AGENTS AND MUNITIONS DESTRUCTION, DEFENSE

| | |
|--------------------------------|---------------|
| Appropriations, 2018 | \$961,732,000 |
| Budget estimate, 2019 | 993,816,000 |
| Committee recommendation | 993,816,000 |

The Committee recommends an appropriation of \$993,816,000. This is equal to the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table summarizes the budget estimate for this appropriation, the Committee recommendation, and the Committee recommended adjustments to the budget estimate:

[Dollars in thousands]

| Line | Item | Qty. | 2019 budget estimate | Qty. | Committee recommendation | Change from | |
|------|--|------|----------------------|------|--------------------------|-------------|-----------------|
| | | | | | | Qty. | Budget estimate |
| | CHEMICAL AGENTS AND MUNITIONS DESTRUCTION, DEFENSE | | | | | | |
| 1 | CHEM DEMILITARIZATION—OPERATION AND MAINTENANCE | | 105,997 | | 105,997 | | |
| 3 | CHEM DEMILITARIZATION—PROCUREMENT | | 1,091 | | 1,091 | | |
| 2 | CHEM DEMILITARIZATION—RESEARCH, DEVELOPMENT, TEST AND EVALUATION | | 886,728 | | 886,728 | | |
| | TOTAL, CHEMICAL AGENTS AND MUNITIONS DESTRUCTION, DEFENSE | | 993,816 | | 993,816 | | |

DRUG INTERDICTION AND COUNTER-DRUG ACTIVITIES, DEFENSE

| | |
|--------------------------------|---------------|
| Appropriations, 2018 | \$934,814,000 |
| Budget estimate, 2019 | 787,525,000 |
| Committee recommendation | 872,525,000 |

The Committee recommends an appropriation of \$872,525,000. This is \$85,000,000 above the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table summarizes the budget estimate for this appropriation, the Committee recommendation, and the Committee recommended adjustments to the budget estimate:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|--|----------------------|--------------------------|-----------------------------|
| 010 | Drug Interdiction And Counter Drug Activities | 547,171 | 507,171 | - 40,000 |
| | Improving funds management: Excess Train and Equip Funding | | | - 40,000 |
| 020 | Drug Demand Reduction Program | 117,900 | 117,900 | |
| 030 | National Guard Counter-Drug Program | 117,178 | 217,178 | + 100,000 |
| | National Guard counter-drug plans | | | + 100,000 |
| 040 | National Guard Counter-Drug Schools | 5,276 | 30,276 | + 25,000 |
| | National Guard counter-drug schools | | | + 25,000 |
| | Total, Drug Interdiction and Counter-Drug Activities | 787,525 | 872,525 | + 85,000 |

OFFICE OF THE INSPECTOR GENERAL

| | |
|--------------------------------|---------------|
| Appropriations, 2018 | \$321,887,000 |
| Budget estimate, 2019 | 329,273,000 |
| Committee recommendation | 329,273,000 |

The Committee recommends an appropriation of \$329,273,000. This is equal to the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table summarizes the budget estimate for this appropriation, the Committee recommendation, and the Committee recommended adjustments to the budget estimate:

[In thousands of dollars]

| Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|--|----------------------|--------------------------|-----------------------------|
| Office of the Inspector General, Operation and Maintenance | 327,611 | 325,236 | - 2,375 |
| Transfer: Department requested to RDTE for DCATSe and CRIMS .. | | | - 2,375 |
| Office of the Inspector General, Research and Development | 1,602 | 3,977 | + 2,375 |
| Transfer: Department requested from O&M for DCATSe and CRIMS | | | + 2,375 |
| Office of the Inspector General, Procurement | 60 | 60 | |
| TOTAL, OFFICE OF THE INSPECTOR GENERAL | 329,273 | 329,273 | |

Quarterly End Strength and Execution Reports.—The Department of Defense Inspector General is directed to provide quarterly reports to the congressional defense committees on civilian personnel end strength, full-time equivalents, and budget execution not later than 15 days after the end of each fiscal quarter. The reports should contain quarterly civilian personnel end strength and full-time equivalents as well as an estimate of fiscal year end

strength and fiscal year full-time equivalents. The reports should also include quarterly budget execution data along with revised fiscal year estimated execution data. The Inspector General is directed to provide realistic end of fiscal year estimates based on personnel trends to date.

TITLE VII
RELATED AGENCIES

CENTRAL INTELLIGENCE AGENCY RETIREMENT AND DISABILITY
SYSTEM FUND

| | |
|--------------------------------|---------------|
| Appropriations, 2018 | \$514,000,000 |
| Budget estimate, 2019 | 514,000,000 |
| Committee recommendation | 514,000,000 |

The Committee recommends an appropriation of \$514,000,000.
This is equal to the budget estimate.

INTELLIGENCE COMMUNITY MANAGEMENT ACCOUNT

| | |
|--------------------------------|---------------|
| Appropriations, 2018 | \$537,600,000 |
| Budget estimate, 2019 | 539,124,000 |
| Committee recommendation | 529,624,000 |

The Committee recommends an appropriation of \$529,624,000.
This is \$9,500,000 below the budget estimate.

TITLE VIII

GENERAL PROVISIONS

The following lists general provisions proposed by the Committee. The Committee recommends inclusion of several proposals which have been incorporated in previous appropriations acts, provisions requested for inclusion by the Defense Department, and new provisions. The Committee recommendations are as follows:

SEC. 8001. *Publicity/Propaganda Limitation*.—Retains a provision carried in previous years.

SEC. 8002. *Compensation/Employment of Foreign Nationals*.—Retains a provision carried in previous years.

SEC. 8003. *Obligation Rate of Appropriations*.—Retains a provision carried in previous years.

SEC. 8004. *Obligations in Last 2 Months of Fiscal Year*.—Retains and modifies a provision carried in previous years.

SEC. 8005. *General Transfer Authority*.—Retains and modifies a provision carried in previous years.

SEC. 8006. *Project Level Adjustments*.—Retains and modifies a provision carried in previous years.

SEC. 8007. *Establishment of Reprogramming Baseline*.—Retains and modifies a provision carried in previous years.

SEC. 8008. *Working Capital Funds Cash Disbursements*.—Retains a provision carried in previous years.

SEC. 8009. *Special Access Programs Notification*.—Retains a provision carried in previous years.

SEC. 8010. *Multiyear Procurement Authority*.—Retains and modifies a provision carried in previous years.

SEC. 8011. *Humanitarian and Civic Assistance*.—Retains a provision carried in previous years.

SEC. 8012. *Restriction on Civilian Personnel End-Strength*.—Retains and modifies a provision carried in previous years.

SEC. 8013. *Lobbying*.—Retains a provision carried in previous years.

SEC. 8014. *Educational Benefits and Bonuses*.—Retains a provision carried in previous years.

SEC. 8015. *Mentor-Protégé Program*.—Retains a provision carried in previous years.

SEC. 8016. *Alcoholic Beverages*.—Retains a provision carried in previous years.

SEC. 8017. *Demilitarization of Surplus Firearms*.—Retains a provision carried in previous years.

SEC. 8018. *Relocations into the National Capital Region*.—Retains a provision carried in previous years.

SEC. 8019. *Indian Financing Act*.—Retains and modifies a provision carried in previous years.

SEC. 8020. *Defense Media Activity*.—Retains a provision carried in previous years.

SEC. 8021. *Burden Sharing With Kuwait*.—Retains a provision carried in previous years.

SEC. 8022. *Civil Air Patrol*.—Retains and modifies a provision carried in previous years.

SEC. 8023. *Federally Funded Research and Development Centers*.—Retains and modifies a provision carried in previous years.

SEC. 8024. *Carbon, Alloy, or Armor Steel Plate*.—Retains a provision carried in previous years.

SEC. 8025. *Congressional Defense Committee Definition*.—Retains a provision carried in previous years.

SEC. 8026. *Depot Maintenance Competition*.—Retains a provision carried in previous years.

SEC. 8027. *Reciprocal Trade Agreements*.—Retains and modifies a provision carried in previous years.

SEC. 8028. *Overseas Military Facility Investment*.—Retains a provision carried in previous years.

SEC. 8029. *Walking Shield*.—Retains and modifies a provision carried in previous years.

SEC. 8030. *Investment Item Unit Cost*.—Retains a provision carried in previous years.

SEC. 8031. *Asia-Pacific Regional Initiative*.—Retains and modifies a provision carried in previous years.

SEC. 8032. *Tobacco Use in the Military*.—Retains a provision carried in previous years.

SEC. 8033. *Working Capital Fund Investment Item Restrictions*.—Retains and modifies a provision carried in previous years.

SEC. 8034. *CIA Availability of Funds*.—Retains and modifies a provision carried in previous years.

SEC. 8035. *Tribal Lands Environmental Impact*.—Retains a provision carried in previous years.

SEC. 8036. *Buy American Act Compliance*.—Retains a provision carried in previous years.

SEC. 8037. *Field Operating Agencies*.—Retains a provision carried in previous years.

SEC. 8038. *Contractor Conversion and Performance*.—Retains a provision carried in previous years.

SEC. 8039. *Rescissions*.—The Committee recommends a general provision rescinding funds from prior years as displayed below:

| | Amount |
|--|--------------|
| 2017 Appropriations | |
| Aircraft Procurement, Army: Utility F/W Aircraft | \$16,000,000 |
| Missile Procurement, Army: Patriot Mods | 12,900,000 |
| Other Procurement, Army: Tactical Bridging | 7,465,000 |
| Other Procurement, Navy: Ship Missile Support Equipment—NULKA Decoy | 32,344,000 |
| Aircraft Procurement, Air Force: KC-46A Tanker | 135,640,000 |
| C-130J | 8,900,000 |
| UH-1N Replacement | 3,037,000 |
| Compass Call | 5,352,000 |

| | Amount |
|--|-------------|
| VC-25A Mod | 21,100,000 |
| Classified adjustment | 5,000,000 |
| Space Procurement, Air Force: | |
| Spacelift Range System Space | 15,000,000 |
| Other Procurement, Air Force: | |
| Personal Safety and Rescue Equipment | 12,000,000 |
| Air Traffic Control & Landing Systems (D-RAPCON) | 17,600,000 |
| Defense Health Program—Procurement: | |
| Procurement JOMIS carryover | 2,413,000 |
| 2018 Appropriations | |
| Aircraft Procurement, Army: | |
| Utility F/W Aircraft | 4,939,000 |
| Missile Procurement, Army: | |
| Guided MLRS Rocket (GMLRS) | 80,000,000 |
| ATACMS Mods | 69,400,000 |
| Procurement of Weapons and Tracked Combat Vehicles, Army: | |
| Bradley Program (MOD) | 190,000,000 |
| Common Remotely Operated Weapons Station | 10,000,000 |
| M2 50 Cal Machine Gun Mods | 10,506,000 |
| Other Procurement, Army: | |
| Joint Light Tactical Vehicle | 46,389,000 |
| Signal Modernization Program | 15,000,000 |
| Persistent Cyber Training Environment | 4,000,000 |
| Indirect Fire Protection Family of Systems | 50,000,000 |
| Aircraft Procurement, Navy: | |
| V-22 (Medium Lift) | 14,600,000 |
| Other Procurement, Navy: | |
| Ship Missile Support Equipment—NULKA decoy | 22,400,000 |
| Ship Missile Support Equipment—ESSM missile launcher upgrade | 14,200,000 |
| Aircraft Procurement, Air Force: | |
| KC-46A Tanker | 9,084,000 |
| MQ-9 | 72,000,000 |
| B-1B—Integrated Battle Station | 28,000,000 |
| F-16—Communication Suite Upgrade | 19,916,000 |
| E-3—Electronic Protection | 22,139,000 |
| MQ-9 Mods—DAS-4 Upgrades | 10,600,000 |
| Initial Spares/Repair Parts—MQ-9 Reaper DAS-4 Spares | 14,600,000 |
| RQ-4 Post Production Charges—MS-177A | 67,427,000 |
| Classified adjustment | 10,400,000 |
| Space Procurement, Air Force: | |
| FAB-T | 20,000,000 |
| WGS | 41,000,000 |
| GPS III Space Segment | 35,500,000 |
| EELV | 45,800,000 |
| SBIR High | 50,000,000 |
| Procurement of Ammunition, Air Force: | |
| General Purpose Bombs | 17,100,000 |
| Other Procurement, Air Force: | |
| Classified adjustments | 128,500,000 |
| Research, Development, Test and Evaluation, Army: | |
| Landmine Warfare and Barrier— Adv Dev | 51,380,000 |
| Cyberspace Operations Forces and Force Support | 5,676,000 |
| Infantry Support Weapons | 18,689,000 |
| Infantry Support Weapons | 22,500,000 |
| Army Tactical Command & Control Hardware & Software | 4,848,000 |
| Indirect Fire Protection Capability Increment | 215,000,000 |
| Joint Light Tactical Vehicle EMD | 5,677,000 |
| Combat Vehicle Improvement Programs—Bradley | 40,000,000 |
| Information Systems Security Program—COMSEC Equipment | 73,614,000 |
| Research, Development, Test and Evaluation, Air Force: | |
| HC/MC-130 RDT&E | 20,300,000 |
| Minuteman Squadrons | 7,000,000 |
| MQ-9 UAV | 5,400,000 |
| Protected Tactical Service | 20,000,000 |
| Protected SATCOM Services | 12,000,000 |

| | Amount |
|---|-------------|
| Space Fence | 8,000,000 |
| GPS III | 19,200,000 |
| JSpOC Mission Support | 30,000,000 |
| JSTARS Recap | 383,400,000 |
| Research, Development, Test and Evaluation ,Defense-Wide: | |
| Classified adjustment (USD (P)) | 25,000,000 |
| Defense Health Program—Procurement: | |
| DHMS Carryover | 215,000,000 |

SEC. 8040. *Civilian Technician Reductions*.—Retains a provision carried in previous years.

SEC. 8041. *North Korea*.—Retains a provision carried in previous years.

SEC. 8042. *Reserve Component Intelligence Reimbursement*.—Retains a provision carried in previous years.

SEC. 8043. *Counter-Drug Activities Transfer*.—Retains a provision carried in previous years.

SEC. 8044. *Funding to Maintain Competitive Rates at Arsenals*.—Retains a provision carried in previous years.

SEC. 8045. *United Service Organizations Grant*.—Retains and modifies a provision carried in previous years.

SEC. 8046. *Buy American Computers*.—Retains a provision carried in previous years.

SEC. 8047. *Small Business Set-Asides*.—Retains a provision carried in previous years.

SEC. 8048. *Contractor Bonuses*.—Retains a provision carried in previous years.

SEC. 8049. *Reserve Peacetime Support*.—Retains a provision carried in previous years.

SEC. 8050. *Unexpended Balances*.—Retains a provision carried in previous years.

SEC. 8051. *National Guard Distance Learning*.—Retains a provision carried in previous years.

SEC. 8052. *Sexual Assault Prevention Programs*.—Retains and modifies a provision carried in previous years.

SEC. 8053. *End-Item Procurement*.—Retains and modifies a provision carried in previous years.

SEC. 8054. *Buy American Waivers*.—Retains a provision carried in previous years.

SEC. 8055. *O&M, Navy Transfer to Stennis Center*.—Retains a provision carried in previous years.

SEC. 8056. *Joint Capability Demonstration Project*.—Retains a provision carried in previous years.

SEC. 8057. *Secretary of Defense Reporting Requirement*.—Retains a provision carried in previous years.

SEC. 8058. *Missile Defense Authorization*.—Retains a provision carried in previous years.

SEC. 8059. *Armor-Piercing Ammo*.—Retains a provision carried in previous years.

SEC. 8060. *Personal Property Lease Payments*.—Retains a provision carried in previous years.

SEC. 8061. *O&M, Army Transfer*.—Retains and modifies a provision carried in previous years.

SEC. 8062. *National Intelligence Program Separation*.—Retains a provision carried in previous years.

SEC. 8063. *Assignment of Forces*.—Retains a provision carried in previous years.

SEC. 8064. *Rapid Acquisition Authority Reporting Requirement*.—Retains a provision carried in previous years.

SEC. 8065. *Israeli Cooperative Programs*.—Retains and modifies a provision carried in previous years.

SEC. 8066. *Prior Year Shipbuilding*.—Retains and modifies a provision carried in previous years.

SEC. 8067. *Intelligence Authorization*.—Retains and modifies a provision carried in previous years.

SEC. 8068. *New Start Authority*.—Retains a provision carried in previous years.

SEC. 8069. *Contingency Operations Budget Justification*.—Retains and modifies a provision carried in previous years.

SEC. 8070. *Nuclear Armed Interceptors*.—Retains a provision carried in previous years.

SEC. 8071. *Blocking Pornography on Computers*.—Retains a provision carried in previous years.

SEC. 8072. *Rapid Acquisition Authority*.—Retains a provision carried in previous years.

SEC. 8073. *53rd Weather Reconnaissance Squadron*.—Retains a provision carried in previous years.

SEC. 8074. *Integration of Foreign Intelligence*.—Retains a provision carried in previous years.

SEC. 8075. *Army Tactical UAVs*.—Retains a provision carried in previous years.

SEC. 8076. *DNI R&D Waiver*.—Retains and modifies a provision carried in previous years.

SEC. 8077. *Shipbuilding Obligations*.—Retains a provision carried in previous years.

SEC. 8078. *DNI Reprogramming Baseline*.—Retains and modifies a provision carried in previous years.

SEC. 8079. *T-AO(X) Oiler Program*.—Retains a provision carried in previous years.

SEC. 8080. *Support to Friendly Foreign Countries*.—Retains a provision carried in previous years.

SEC. 8081. *Defense Acquisition Workforce Development Fund*.—Retains and modifies a provision carried in previous years.

SEC. 8082. *Child Soldiers*.—Retains a provision carried in previous years.

SEC. 8083. *NIP Reprogramming*.—Retains a provision carried in previous years.

SEC. 8084. *Future-Years Intelligence Program*.—Retains a provision carried in previous years.

SEC. 8085. *Congressional Intelligence Committee Definition*.—Retains a provision carried in previous years.

SEC. 8086. *Fisher House Authorization*.—Retains a provision carried in previous years.

SEC. 8087. *Defense Acquisition Workforce Development Fund*.—Retains a provision carried in previous years.

SEC. 8088. *Public Disclosure of Agency Reports*.—Retains a provision carried in previous years.

SEC. 8089. *Contractor Compliance With the Civil Rights Act of 1964.*—Retains a provision carried in previous years.

SEC. 8090. *DOD–VA Medical Facility Demonstration.*—Retains and modifies a provision carried in previous years.

SEC. 8091. *Exchanging Ballistic Missile Defense Information.*—Retains a provision carried in previous years.

SEC. 8092. *Armored Vehicles.*—Retains a provision carried in previous years.

SEC. 8093. *NIP Reprogramming.*—Retains and modifies a provision carried in previous years.

SEC. 8094. *Transfer of Detainees to or Within the United States.*—Retains a provision carried in previous years.

SEC. 8095. *Detainee Facilities.*—Retains a provision carried in previous years.

SEC. 8096. *Detainee Transfer to a Foreign Country or Entity.*—Retains a provision carried in previous years.

SEC. 8097. *War Powers Resolution.*—Retains a provision carried in previous years.

SEC. 8098. *Rosoboronexport.*—Retains a provision carried in previous years.

SEC. 8099. *Crime Databases Reporting Requirement.*—Retains and modifies a provision carried in previous years.

SEC. 8100. *Ex Gratia Payments.*—Retains a provision carried in previous years.

SEC. 8101. *Strategic Delivery Vehicles.*—Retains a provision carried in previous years.

SEC. 8102. *Death Gratuity Payments.*—Includes a provision regarding the availability of working capital funds for death gratuity payments.

SEC. 8103. *Rapid Prototyping Fund reprogrammings and account reductions.*—Retains a provision carried in previous years.

SEC. 8104. *Restrictions on NSA.*—Retains a provision carried in previous years.

SEC. 8105. *Transfers to Another Federal Agency.*—Retains a provision carried in previous years.

SEC. 8106. *Support to Foreign Countries.*—Retains a provision carried in previous years.

SEC. 8107. *Authority to Transfer O&M, Navy Funds to Ready Reserve Force, Maritime Administration Account.*—Retains and modifies a provision carried in previous years.

SEC. 8108. *Authority to Use Funds for OPM Background Investigations.*—Retains and modifies a provision carried in previous years.

SEC. 8109. *Closure of GTMO.*—Retains a provision carried in previous years.

SEC. 8110. *Global Engagement Center Reprogrammings.*—Retains a provision carried in previous years.

SEC. 8111. *Rapid Prototyping with DAWDF.*—Retains a provision carried in previous years.

SEC. 8112. *Project Designated by the Secretary of Defense.*—Retains a provision carried in previous years.

SEC. 8113. *Prohibition on the Transfer of F-35 Aircraft to Turkey.*—Includes a provision regarding the prohibition on the transfer of F-35 aircraft to Turkey.

TITLE IX
OVERSEAS CONTINGENCY OPERATIONS

DEPARTMENT OF DEFENSE—MILITARY

The Committee recommends an appropriation of \$67,913,976,000 for operations related to Overseas Contingency Operations. In fiscal year 2018 Congress appropriated \$65,166,000,000 for activities funded in this title in Public Law 115–141.

COMMITTEE RECOMMENDED PROGRAM

The following table summarizes the Committee recommendation:

[In thousands of dollars]

| | Fiscal year 2018 enacted | Fiscal year 2019 estimate | Committee recommendation |
|---|-----------------------------|------------------------------|-----------------------------|
| Military Personnel | 4,326,172 | 4,660,661 | 4,660,661 |
| Operation and Maintenance | 50,317,919 | 48,782,670 | 50,405,932 |
| Procurement | 10,424,319 | 12,782,468 | 12,574,963 |
| Research, development, test and evaluation | 926,937 | 1,307,731 | 1,175,770 |
| Revolving and management funds | 148,956 | 15,190 | 15,190 |
| Other Department of Defense Programs | 616,797 | 529,860 | 519,860 |
| General Provisions (net) | – 1,595,100 | ..... | – 1,438,400 |
| Total, Overseas Contingency Operations | 65,166,000 | 68,078,580 | 67,913,976 |

OVERVIEW

COMMITTEE RECOMMENDATION

The Committee recommends \$67,913,976,000 of additional appropriations for Overseas Contingency Operations in fiscal year 2019. This funding will ensure that resources, equipment, and supplies are available for our servicemembers without interruption, and will enable the Department to avoid absorbing operational costs from within baseline programs that are critical to future readiness and home-station activities.

REPORTING REQUIREMENTS

The Secretary of Defense is directed to submit reports, on a quarterly basis, to the congressional defense committees not later than 30 days after the last day of each quarter of the fiscal year that detail commitment, obligation, and expenditure data by sub-activity group for the Afghanistan Security Forces Fund and the Counter-the Islamic State of Iraq and Syria Fund.

JOINT IMPROVISED-THREAT DEFEAT ORGANIZATION

The fiscal year 2019 President’s budget request includes \$704,701,000 for the Joint Improvised-Threat Defeat Organization

[JIDO] in the appropriations accounts for Operation and Maintenance, Defense-Wide; Procurement, Defense-Wide; and Research, Development, Test and Evaluation, Defense-Wide, reflecting the transition of the activities, functions, and resources of the Joint Improvised-Threat Defeat Agency to the JIDO under the authority, direction and control of the Defense Threat Reduction Agency, as previously directed by Congress. The Committee commends the Under Secretary of Defense (Comptroller) for requesting appropriations for the JIDO in appropriations accounts instead of the previously utilized Joint Improvised-Threat Defeat Fund [JITDF] and its predecessor fund, the Joint Improvised-Explosives Devices Defeat Fund [JIEDDF].

The Committee notes that unobligated and unexpended funds remaining in the JIEDDF and the JITDF will continue to execute, therefore precluding the termination of these Funds at this time. The Under Secretary of Defense (Comptroller) is directed to provide to the congressional defense committees, with submission of the fiscal year 2020 President's budget request, a plan to close out the JITDF and JIEDDF in the near-term.

MILITARY PERSONNEL

The Committee recommends a total of \$4,660,661,000 for pay, allowances, and other personnel costs for Active, Reserve, and Guard troops activated for duty in Afghanistan and other contingency operations. This recommendation includes funding for subsistence, permanent change of station travel, and special pays including imminent danger pay, family separation allowance, and hardship duty pay.

MILITARY PERSONNEL, ARMY

| | |
|--------------------------------|-----------------|
| Appropriations, 2018 | \$2,683,694,000 |
| Budget estimate, 2019 | 2,929,154,000 |
| Committee recommendation | 2,929,154,000 |

The Committee recommends an appropriation of \$2,929,154,000. This is equal to the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table details the program recommended by the Committee:

(In thousands of dollars)

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|---------------------------------------|----------------------|--------------------------|-----------------------------|
| | BA 1: Pay and Allowances of Officers | | | |
| 005 | Basic Pay | 534,241 | 534,241 | ..... |
| 010 | Retired Pay Accrual | 131,957 | 131,957 | ..... |
| 025 | Basic Allowance for Housing | 179,452 | 179,452 | ..... |
| 030 | Basic Allowance for Subsistence | 19,851 | 19,851 | ..... |
| 035 | Incentive Pays | 4,138 | 4,138 | ..... |
| 040 | Special Pays | 21,501 | 21,501 | ..... |
| 045 | Allowances | 16,036 | 16,036 | ..... |
| 050 | Separation Pay | 6,972 | 6,972 | ..... |
| 055 | Social Security Tax | 40,869 | 40,869 | ..... |

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|--|----------------------|--------------------------|-----------------------------|
| | Total | 955,017 | 955,017 | ..... |
| | BA 2: Pay and Allowances of Enlisted | | | |
| 060 | Basic Pay | 742,895 | 742,895 | ..... |
| 065 | Retired Pay Accrual | 183,495 | 183,495 | ..... |
| 080 | Basic Allowance for Housing | 361,724 | 361,724 | ..... |
| 085 | Incentive Pays | 2,315 | 2,315 | ..... |
| 090 | Special Pays | 78,317 | 78,317 | ..... |
| 095 | Allowances | 62,898 | 62,898 | ..... |
| 100 | Separation Pay | 13,750 | 13,750 | ..... |
| 105 | Social Security Tax | 56,831 | 56,831 | ..... |
| | Total | 1,502,225 | 1,502,225 | ..... |
| | BA 4: Subsistence of Enlisted Personnel | | | |
| 115 | Basic Allowance for Subsistence | 88,718 | 88,718 | ..... |
| 120 | Subsistence-In-Kind | 287,470 | 287,470 | ..... |
| | Total | 376,188 | 376,188 | ..... |
| | BA 5: Permanent Change of Station Travel | | | |
| 135 | Operational Travel | 34,924 | 34,924 | ..... |
| 140 | Rotational Travel | 5,933 | 5,933 | ..... |
| | Total | 40,857 | 40,857 | ..... |
| | BA 6: Other Military Personnel Costs | | | |
| 175 | Interest on Uniformed Services Savings | 3,112 | 3,112 | ..... |
| 180 | Death Gratuities | 2,000 | 2,000 | ..... |
| 185 | Unemployment Benefits | 39,923 | 39,923 | ..... |
| 216 | SGLI Extra Hazard Payments | 9,832 | 9,832 | ..... |
| | Total | 54,867 | 54,867 | ..... |
| | Total, Military Personnel, Army | 2,929,154 | 2,929,154 | ..... |

MILITARY PERSONNEL, NAVY

| | |
|--------------------------------|---------------|
| Appropriations, 2018 | \$377,857,000 |
| Budget estimate, 2019 | 385,461,000 |
| Committee recommendation | 385,461,000 |

The Committee recommends an appropriation of \$385,461,000. This is equal to the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table details the program recommended by the Committee:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|---------------------------------------|----------------------|--------------------------|-----------------------------|
| | BA 1: Pay and Allowances of Officers | | | |
| 005 | Basic Pay | 74,977 | 74,977 | ..... |
| 010 | Retired Pay Accrual | 18,520 | 18,520 | ..... |
| 025 | Basic Allowance for Housing | 25,660 | 25,660 | ..... |
| 030 | Basic Allowance for Subsistence | 2,623 | 2,623 | ..... |
| 035 | Incentive Pays | 540 | 540 | ..... |

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|---|----------------------|--------------------------|-----------------------------|
| 040 | Special Pays | 3,562 | 3,562 | ..... |
| 045 | Allowances | 8,096 | 8,096 | ..... |
| 055 | Social Security Tax | 5,736 | 5,736 | ..... |
| | Total | 139,714 | 139,714 | ..... |
| | BA 2: Pay and Allowances of Enlisted | | | |
| 060 | Basic Pay | 86,888 | 86,888 | ..... |
| 065 | Retired Pay Accrual | 21,463 | 21,463 | ..... |
| 080 | Basic Allowance for Housing | 47,583 | 47,583 | ..... |
| 085 | Incentive Pays | 215 | 215 | ..... |
| 090 | Special Pays | 9,302 | 9,302 | ..... |
| 095 | Allowances | 17,872 | 17,872 | ..... |
| 105 | Social Security Tax | 6,647 | 6,647 | ..... |
| | Total | 189,970 | 189,970 | ..... |
| | BA 4: Subsistence of Enlisted Personnel | | | |
| 115 | Basic Allowance for Subsistence | 9,878 | 9,878 | ..... |
| 120 | Subsistence—In—Kind | 24,054 | 24,054 | ..... |
| | Total | 33,932 | 33,932 | ..... |
| | BA 5: Permanent Change of Station Travel | | | |
| 125 | Accession Travel | 5,912 | 5,912 | ..... |
| 135 | Operational Travel | 1,119 | 1,119 | ..... |
| 140 | Rotational Travel | 355 | 355 | ..... |
| 145 | Separation Travel | 4,848 | 4,848 | ..... |
| | Total | 12,234 | 12,234 | ..... |
| | BA 6: Other Military Personnel Costs | | | |
| 180 | Death Gratuities | 300 | 300 | ..... |
| 185 | Unemployment Benefits | 6,066 | 6,066 | ..... |
| 212 | Reserve Income Replacement Program | 9 | 9 | ..... |
| 216 | SGLI Extra Hazard Payments | 3,236 | 3,236 | ..... |
| | Total | 9,611 | 9,611 | ..... |
| | Total, Military Personnel, Navy | 385,461 | 385,461 | ..... |

MILITARY PERSONNEL, MARINE CORPS

| | |
|--------------------------------|---------------|
| Appropriations, 2018 | \$103,979,000 |
| Budget estimate, 2019 | 109,232,000 |
| Committee recommendation | 109,232,000 |

The Committee recommends an appropriation of \$109,232,000. This is equal to the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table details the program recommended by the Committee:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|--|----------------------|--------------------------|-----------------------------|
| | BA 1: Pay and Allowances of Officers | | | |
| 005 | Basic Pay | 27,939 | 27,939 | ..... |
| 010 | Retired Pay Accrual | 6,901 | 6,901 | ..... |
| 025 | Basic Allowance for Housing | 9,815 | 9,815 | ..... |
| 030 | Basic Allowance for Subsistence | 927 | 927 | ..... |
| 035 | Incentive Pays | 253 | 253 | ..... |
| 040 | Special Pays | 1,498 | 1,498 | ..... |
| 045 | Allowances | 1,955 | 1,955 | ..... |
| 050 | Separation Pay | 1,165 | 1,165 | ..... |
| 055 | Social Security Tax | 2,137 | 2,137 | ..... |
| | Total | 52,590 | 52,590 | ..... |
| | BA 2: Pay and Allowances of Enlisted | | | |
| 060 | Basic Pay | 21,663 | 21,663 | ..... |
| 065 | Retired Pay Accrual | 5,351 | 5,351 | ..... |
| 080 | Basic Allowance for Housing | 12,633 | 12,633 | ..... |
| 085 | Incentive Pays | 28 | 28 | ..... |
| 090 | Special Pays | 6,442 | 6,442 | ..... |
| 095 | Allowances | 5,321 | 5,321 | ..... |
| 100 | Separation Pay | 467 | 467 | ..... |
| 105 | Social Security Tax | 1,657 | 1,657 | ..... |
| | Total | 53,562 | 53,562 | ..... |
| | BA 4: Subsistence of Enlisted Personnel | | | |
| 115 | Basic Allowance for Subsistence | 2,427 | 2,427 | ..... |
| | Total | 2,427 | 2,427 | ..... |
| | BA 6: Other Military Personnel Costs | | | |
| 175 | Interest on Uniformed Services Savings | 238 | 238 | ..... |
| 216 | SGLI Extra Hazard Payments | 415 | 415 | ..... |
| | Total | 653 | 653 | ..... |
| | Total, Military Personnel, Marine Corps | 109,232 | 109,232 | ..... |

MILITARY PERSONNEL, AIR FORCE

| | |
|--------------------------------|---------------|
| Appropriations, 2018 | \$914,119,000 |
| Budget estimate, 2019 | 964,508,000 |
| Committee recommendation | 964,508,000 |

The Committee recommends an appropriation of \$964,508,000. This is equal to the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table details the program recommended by the Committee:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|---|----------------------|--------------------------|-----------------------------|
| | BA 1: Pay and Allowances of Officers | | | |
| 005 | Basic Pay | 109,903 | 109,903 | ..... |
| 010 | Retired Pay Accrual | 27,146 | 27,146 | ..... |
| 025 | Basic Allowance for Housing | 34,021 | 34,021 | ..... |

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|---|----------------------|--------------------------|-----------------------------|
| 030 | Basic Allowance for Subsistence | 3,741 | 3,741 | ..... |
| 040 | Special Pays | 8,797 | 8,797 | ..... |
| 045 | Allowances | 5,917 | 5,917 | ..... |
| 055 | Social Security Tax | 8,408 | 8,408 | ..... |
| | Total | 197,933 | 197,933 | ..... |
| | BA 2: Pay and Allowances of Enlisted | | | |
| 060 | Basic Pay | 307,674 | 307,674 | ..... |
| 065 | Retired Pay Accrual | 75,995 | 75,995 | ..... |
| 080 | Basic Allowance for Housing | 129,809 | 129,809 | ..... |
| 090 | Special Pays | 37,166 | 37,166 | ..... |
| 095 | Allowances | 24,955 | 24,955 | ..... |
| 105 | Social Security Tax | 23,537 | 23,537 | ..... |
| | Total | 599,136 | 599,136 | ..... |
| | BA 4: Subsistence of Enlisted Personnel | | | |
| 115 | Basic Allowance for Subsistence | 32,575 | 32,575 | ..... |
| 120 | Subsistence-In-Kind | 118,489 | 118,489 | ..... |
| | Total | 151,064 | 151,064 | ..... |
| | BA 6: Other Military Personnel Costs | | | |
| 180 | Death Gratuities | 1,000 | 1,000 | ..... |
| 185 | Unemployment Benefits | 8,946 | 8,946 | ..... |
| 216 | SGLI Extra Hazard Payments | 6,429 | 6,429 | ..... |
| | Total | 16,375 | 16,375 | ..... |
| | Total, Military Personnel, Air Force | 964,508 | 964,508 | ..... |

RESERVE PERSONNEL, ARMY

| | |
|--------------------------------|--------------|
| Appropriations, 2018 | \$24,942,000 |
| Budget estimate, 2019 | 37,007,000 |
| Committee recommendation | 37,007,000 |

The Committee recommends an appropriation of \$37,007,000. This is equal to the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table details the program recommended by the Committee:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|---|----------------------|--------------------------|-----------------------------|
| | BA 1: Reserve Component Training and Support | | | |
| 080 | Special Training | 37,007 | 37,007 | ..... |
| | Total | 37,007 | 37,007 | ..... |
| | Total, Reserve Personnel, Army | 37,007 | 37,007 | ..... |

RESERVE PERSONNEL, NAVY

| | |
|--------------------------------|-------------|
| Appropriations, 2018 | \$9,091,000 |
| Budget estimate, 2019 | 11,100,000 |
| Committee recommendation | 11,100,000 |

The Committee recommends an appropriation of \$11,100,000. This is equal to the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table details the program recommended by the Committee:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|--|----------------------|--------------------------|-----------------------------|
| | BA 1: Reserve Component Training and Support | | | |
| 080 | Special Training | 11,100 | 11,100 | ..... |
| | Total | 11,100 | 11,100 | ..... |
| | Total, Reserve Personnel, Navy | 11,100 | 11,100 | ..... |

RESERVE PERSONNEL, MARINE CORPS

| | |
|--------------------------------|-------------|
| Appropriations, 2018 | \$2,328,000 |
| Budget estimate, 2019 | 2,380,000 |
| Committee recommendation | 2,380,000 |

The Committee recommends an appropriation of \$2,380,000. This is equal to the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table details the program recommended by the Committee:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|--|----------------------|--------------------------|-----------------------------|
| | BA 1: Reserve Component Training and Support | | | |
| 080 | Special Training | 2,336 | 2,336 | ..... |
| 090 | Administration and Support | 44 | 44 | ..... |
| | Total | 2,380 | 2,380 | ..... |
| | Total, Reserve Personnel, Marine Corps | 2,380 | 2,380 | ..... |

RESERVE PERSONNEL, AIR FORCE

| | |
|--------------------------------|--------------|
| Appropriations, 2018 | \$20,569,000 |
| Budget estimate, 2019 | 21,076,000 |
| Committee recommendation | 21,076,000 |

The Committee recommends an appropriation of \$21,076,000. This is equal to the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table details the program recommended by the Committee:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|--|----------------------|--------------------------|-----------------------------|
| 080 | BA 1: Reserve Component Training and Support | | | |
| | Special Training | 21,076 | 21,076 | ..... |
| | Total | 21,076 | 21,076 | ..... |
| | Total, Reserve Personnel, Air Force | 21,076 | 21,076 | ..... |

NATIONAL GUARD PERSONNEL, ARMY

| | |
|--------------------------------|---------------|
| Appropriations, 2018 | \$184,589,000 |
| Budget estimate, 2019 | 195,283,000 |
| Committee recommendation | 195,283,000 |

The Committee recommends an appropriation of \$195,283,000. This is equal to the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table details the program recommended by the Committee:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|--------------------------|---|----------------------|--------------------------|-----------------------------|
| 010 070 080 090 | BA 1: Reserve Component Training and Support | | | |
| | Pay Group A Training (15 Days & Drills 24/48) | 47,114 | 47,114 | ..... |
| | School Training | 2,939 | 2,939 | ..... |
| | Special Training | 135,655 | 135,655 | ..... |
| | Administration and Support | 9,575 | 9,575 | ..... |
| | Total | 195,283 | 195,283 | ..... |
| | Total, National Guard Personnel, Army | 195,283 | 195,283 | ..... |

NATIONAL GUARD PERSONNEL, AIR FORCE

| | |
|--------------------------------|-------------|
| Appropriations, 2018 | \$5,004,000 |
| Budget estimate, 2019 | 5,460,000 |
| Committee recommendation | 5,460,000 |

The Committee recommends an appropriation of \$5,460,000. This is equal to the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table details the program recommended by the Committee:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|--|----------------------|--------------------------|-----------------------------|
| 080 | BA 1: Reserve Component Training and Support | | | |
| | Special Training | 5,460 | 5,460 | ..... |
| | Total | 5,460 | 5,460 | ..... |
| | Total, National Guard Personnel, Air Force | 5,460 | 5,460 | ..... |

OPERATION AND MAINTENANCE

The Committee recommends \$50,405,932,000 for the operation and maintenance accounts. These funds are available to fund overseas deployments and other activities by the services and Special Operations Forces to include financing flying hours, ship steaming days, ground operations, special airlift missions, increased ship and aircraft maintenance, logistics support, fuel purchases, base support, civilian personnel, personnel support costs, overseas transportation, communications support, facility management, and other operation and maintenance requirements.

OPERATION AND MAINTENANCE, ARMY

| | |
|--------------------------------|------------------|
| Appropriations, 2018 | \$17,352,994,000 |
| Budget estimate, 2019 | 18,210,500,000 |
| Committee recommendation | 19,028,500,000 |

The Committee recommends an appropriation of \$19,028,500,000. This is \$818,000,000 above the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table details the program recommended by the Committee:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|--|----------------------|--------------------------|-----------------------------|
| 111 | Maneuver Units | 1,179,339 | 1,479,339 | + 300,000 |
| | Transfer: From Title II to Title IX for OCO Operations | | | + 300,000 |
| 113 | Echelons Above Brigade | 25,983 | 25,983 | |
| 114 | Theater Level Assets | 2,189,916 | 2,189,916 | |
| 115 | Land Forces Operations Support | 188,609 | 188,609 | |
| 116 | Aviation Assets | 120,787 | 120,787 | |
| 121 | Force Readiness Operations Support | 3,867,286 | 4,230,286 | + 363,000 |
| | Maintain program affordability: Unjustified growth | | | - 37,000 |
| | Transfer: From Title II to Title IX for OCO Operations | | | + 400,000 |
| 122 | Land Forces Systems Readiness | 550,068 | 475,068 | - 75,000 |
| | Maintain program affordability: Unjustified growth | | | - 75,000 |
| 123 | Land Forces Depot Maintenance | 195,873 | 495,873 | + 300,000 |
| | Transfer: From Title II to Title IX for OCO Operations | | | + 300,000 |
| 131 | Base Operations Support | 109,560 | 109,560 | |
| 132 | Facilities Sustainment, Restoration, and Modernization | 60,807 | 60,807 | |
| 135 | Additional Activities | 5,992,222 | 5,927,222 | - 65,000 |
| | Maintain program affordability: Unjustified growth | | | - 65,000 |
| 136 | Commander's Emergency Response Program | 10,000 | 5,000 | - 5,000 |
| | Maintain program affordability: Unjustified growth | | | - 5,000 |
| 137 | Reset | 1,036,454 | 1,036,454 | |
| 141 | US Africa Command | 248,796 | 248,796 | |
| 142 | US European Command | 98,127 | 98,127 | |
| 143 | US Southern Command | 2,550 | 2,550 | |
| 212 | Army Prepositioned Stocks | 158,753 | 158,753 | |
| 421 | Servicewide Transportation | 712,230 | 712,230 | |
| 422 | Central Supply Activities | 44,168 | 44,168 | |
| 423 | Logistics Support Activities | 5,300 | 5,300 | |
| 424 | Ammunition Management | 38,597 | 38,597 | |
| 434 | Other Personnel Support | 109,019 | 109,019 | |
| 437 | Real Estate Management | 191,786 | 191,786 | |
| 999 | Classified Programs | 1,074,270 | 1,074,270 | |
| | Total, Operation and Maintenance, Army | 18,210,500 | 19,028,500 | + 818,000 |

OPERATION AND MAINTENANCE, NAVY

Appropriations, 2018 \$6,449,404,000
 Budget estimate, 2019 4,757,155,000
 Committee recommendation 5,572,155,000

The Committee recommends an appropriation of \$5,572,155,000.
 This is \$815,000,000 above the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table details the program recommended by the Committee:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|--|----------------------|--------------------------|-----------------------------|
| 1A1A | Mission And Other Flight Operations | 435,507 | 935,507 | + 500,000 |
| | Transfer: From Title II to Title IX for OCO Operations | | | + 500,000 |
| 1A3A | Aviation Technical Data & Engineering Services | 800 | 800 | |
| 1A4A | Air Operations And Safety Support | 9,394 | 9,394 | |
| 1A4N | Air Systems Support | 193,384 | 193,384 | |
| 1A5A | Aircraft Depot Maintenance | 173,053 | 173,053 | |
| 1A6A | Aviation Depot Operations Support | 3,524 | 3,524 | |
| 1A9A | Aviation Logistics | 60,219 | 60,219 | |
| 1B1B | Mission And Other Ship Operations | 942,960 | 1,422,960 | + 480,000 |
| | Maintain program affordability: Unjustified growth | | | - 20,000 |
| | Transfer: From Title II to Title IX for OCO Operations | | | + 500,000 |
| 1B2B | Ship Operations Support & Training | 20,236 | 20,236 | |
| 1B4B | Ship Depot Maintenance | 1,022,647 | 1,022,647 | |
| 1C1C | Combat Communications and Electronic Warfare | 59,553 | 59,553 | |
| 1C4C | Warfare Tactics | 16,651 | 16,651 | |
| 1C5C | Operational Meteorology And Oceanography | 31,118 | 31,118 | |
| 1C6C | Combat Support Forces | 635,560 | 635,560 | |
| 1C7C | Equipment Maintenance and Depot Operations Support | 4,334 | 4,334 | |
| 1CCM | Combatant Commanders Direct Mission Support | 24,800 | 24,800 | |
| 1CCY | Cyberspace Activities | 355 | 355 | |
| 1D4D | Weapons Maintenance | 493,033 | 493,033 | |
| 1D7D | Other Weapons Systems Support | 12,780 | 12,780 | |
| BSM1 | Facilities Sustainment, Restoration And Modernization | 67,321 | 67,321 | |
| BSS1 | Base Operating Support | 211,394 | 211,394 | |
| 2C1H | Expeditionary Health Service Systems | 12,902 | 12,902 | |
| 2C3H | Coast Guard Support | 165,000 | | - 165,000 |
| | Coast Guard funded in Department of Homeland Security bill | | | - 165,000 |
| 3B1K | Specialized Skill Training | 51,138 | 51,138 | |
| 4A1M | Administration | 4,145 | 4,145 | |
| 4A4M | Military Manpower And Personnel Management | 7,503 | 7,503 | |
| 4B1N | Servicewide Transportation | 69,297 | 69,297 | |
| 4B3N | Acquisition, Logistics and Oversight | 10,912 | 10,912 | |
| 4C1P | Investigative and Security Services | 1,559 | 1,559 | |
| 999 | Classified Programs | 16,076 | 16,076 | |
| | Total, Operation and Maintenance, Navy | 4,757,155 | 5,572,155 | + 815,000 |

OPERATION AND MAINTENANCE, MARINE CORPS

Appropriations, 2018 \$1,401,536,000
 Budget estimate, 2019 1,121,900,000
 Committee recommendation 1,475,800,000

The Committee recommends an appropriation of \$1,475,800,000.
 This is \$353,900,000 above the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table details the program recommended by the Committee:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|---|----------------------|--------------------------|-----------------------------|
| 1A1A | Operational Forces | 734,505 | 934,505 | + 200,000 |
| | Transfer: Title II to Title IX for OCO Operations | | | + 200,000 |
| 1A2A | Field Logistics | 212,691 | 212,691 | |
| 1A3A | Depot Maintenance | 53,040 | 53,040 | |
| BSS1 | Base Operating Support | 23,047 | 176,947 | + 153,900 |
| | Transfer: Title II to Title IX for OCO Operations | | | + 153,900 |
| 3B4D | Training Support | 30,459 | 30,459 | |
| 4A3G | Servicewide Transportation | 61,400 | 61,400 | |
| 4A4G | Administration | 2,108 | 2,108 | |
| 999 | Classified Programs | 4,650 | 4,650 | |
| | Total, Operation and Maintenance, Marine Corps | 1,121,900 | 1,475,800 | + 353,900 |

OPERATION AND MAINTENANCE, AIR FORCE

| | |
|--------------------------------|------------------|
| Appropriations, 2018 | \$10,873,895,000 |
| Budget estimate, 2019 | 9,285,789,000 |
| Committee recommendation | 10,055,789,000 |

The Committee recommends an appropriation of \$10,055,789,000. This is \$770,000,000 above the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table details the program recommended by the Committee:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|---|----------------------|--------------------------|-----------------------------|
| 011A | Primary Combat Forces | 166,274 | 166,274 | |
| 011C | Combat Enhancement Forces | 1,492,580 | 1,492,580 | |
| 011D | Air Operations Training | 110,237 | 110,237 | |
| 011M | Depot Purchase Equipment Maintenance | 209,996 | 709,996 | + 500,000 |
| | Transfer: Title II to Title IX for OCO Operations | | | + 500,000 |
| 011R | Facilities Sustainment, Restoration & Modernization | 92,412 | 92,412 | |
| 011W | Contractor Logistics Support and System Support | 1,289,693 | 1,289,693 | |
| 011Y | Flying Hour Program | 2,355,264 | 2,855,264 | + 500,000 |
| | Transfer: Title II to Title IX for OCO Operations | | | + 500,000 |
| 011Z | Base Operating Support | 1,141,718 | 1,111,718 | - 30,000 |
| | Maintain program affordability: Unjustified growth | | | - 30,000 |
| 012A | Global C3I And Early Warning | 13,537 | 13,537 | |
| 012C | Other Combat Ops Spt Programs | 224,713 | 224,713 | |
| 012D | Cyberspace Activities | 17,353 | 17,353 | |
| 012F | Tactical Intelligence and Special Activities | 36,098 | 36,098 | |
| 013A | Launch Facilities | 385 | 385 | |
| 013C | Space Control Systems | 38,966 | 38,966 | |
| 015C | US NORTHCOM/NORAD | 725 | 725 | |
| 015D | US STRATCOM | 2,056 | 2,056 | |
| 015E | US CYBERCOM | 35,189 | 35,189 | |
| 015F | US CENTCOM | 162,691 | 208,191 | + 45,500 |
| | Transfer: Air Force-requested transfer of CENTCOM OSC-I costs from SAG 42G | | | + 45,500 |
| 015G | US SOCOM | 19,000 | 19,000 | |
| 021A | Airlift Operations | 1,287,659 | 1,087,659 | - 200,000 |
| | Maintain program affordability: Unjustified growth | | | - 200,000 |
| 021D | Mobilization Preparedness | 107,064 | 107,064 | |

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|---|----------------------|--------------------------|-----------------------------|
| 031A | Officer Acquisition | 300 | 300 | ..... |
| 031B | Recruit Training | 340 | 340 | ..... |
| 032A | Specialized Skill Training | 25,327 | 25,327 | ..... |
| 032B | Flight Training | 844 | 844 | ..... |
| 032C | Professional Development Education | 1,199 | 1,199 | ..... |
| 032D | Training Support | 1,320 | 1,320 | ..... |
| 041A | Logistics Operations | 154,485 | 154,485 | ..... |
| 041B | Technical Support Activities | 13,608 | 13,608 | ..... |
| 042A | Administration | 4,814 | 4,814 | ..... |
| 042B | Service-wide Communications | 131,123 | 131,123 | ..... |
| 042G | Other Service-wide Activities | 97,471 | 51,971 | - 45,500 |
| | Transfer: Air Force—requested transfer of CENTCOM OSC-I costs to SAG 15F ..... | ..... | ..... | - 45,500 |
| 043A | Security Programs | 51,108 | 51,108 | ..... |
| 044A | International Support | 240 | 240 | ..... |
| | Total, Operation and Maintenance, Air Force | 9,285,789 | 10,055,789 | + 770,000 |

OPERATION AND MAINTENANCE, DEFENSE-WIDE

| | |
|--------------------------------|-----------------|
| Appropriations, 2018 | \$7,575,195,000 |
| Budget estimate, 2019 | 8,549,908,000 |
| Committee recommendation | 8,354,905,000 |

The Committee recommends an appropriation of \$8,354,905,000. This is \$195,003,000 below the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table details the program recommended by the Committee:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|--|----------------------|--------------------------|-----------------------------|
| | Joint Chiefs of Staff | 28,671 | 28,671 | ..... |
| | Special Operations Command/Operating Forces | 3,733,161 | 3,718,508 | - 14,653 |
| | Maintain Program Affordability: Travel ..... | ..... | ..... | - 9,653 |
| | Improving Funds Management: CMNS ..... | ..... | ..... | - 5,000 |
| | Defense Contract Audit Agency | 1,781 | 1,781 | ..... |
| | Defense Contract Management Agency | 21,723 | 21,723 | ..... |
| | Defense Information Systems Agency | 111,702 | 111,702 | ..... |
| | Defense Legal Services Agency | 127,023 | 127,023 | ..... |
| | Defense Media Activity | 14,377 | 14,377 | ..... |
| | Department of Defense Education Activity | 31,620 | 31,620 | ..... |
| | Defense Security Cooperation Agency | 2,208,442 | 2,008,442 | - 200,000 |
| | Maintain Program Affordability: Maintain level of ef- fort—Security Cooperation ..... | ..... | ..... | - 150,000 |
| | Maintain Program Affordability: Unjustified growth— Lift and Sustain ..... | ..... | ..... | - 50,000 |
| | Defense Threat Reduction Agency | 302,250 | 321,900 | + 19,650 |
| | Program increase: JIDO Assist Situational Under- standing ..... | ..... | ..... | + 19,650 |
| | Office of the Secretary of Defense | 16,579 | 16,579 | ..... |
| | Washington Headquarters Services | 7,766 | 7,766 | ..... |
| | Classified Programs | 1,944,813 | 1,944,813 | ..... |
| | Total, Operation and Maintenance, Defense-Wide | 8,549,908 | 8,354,905 | - 195,003 |

Pakistan Reimbursements.—In January 2018, President Trump announced that the United States would withhold most security

aid from the government of Pakistan. The Committee understands that the Department of Defense continues to adjudicate the extent to which this policy applies to reimbursements for Pakistan’s counterterrorism activities using Operation and Maintenance Defense-wide, Coalition Support Funds [CSF]. In addition, S. 2987 the National Defense Authorization Act for Fiscal Year 2019, proposes elimination of CSF and funding Pakistan’s counterterrorism support activities using border security support authorities. While discussions in the Department and in Congress about the appropriate path forward continue, fiscal year 2017 and 2018 CSF for Pakistan remain unobligated. Therefore, the Committee recommends a rescission of \$800,000,000 of fiscal year 2018 two-year CSF funds. Should a decision be made that Pakistan has taken necessary decisive action to counter terrorist threats required for a resumption of CSF reimbursements, the Department may use CSF funds requested for fiscal year 2019 to make such payments, consistent with the authorities in the National Defense Authorization Act for Fiscal Year 2019.

Civilian Casualties Resulting from U.S. Military Operations.—The Committee supports the designation of a senior official responsible for developing, coordinating, and overseeing compliance with the policies of the Department of Defense related to civilian casualties resulting from U.S. military operations, as required by the John S. McCain National Defense Authorization Act for Fiscal Year 2019, as passed by the Senate. The Committee directs the Secretary of Defense and the Chairman of the Joint Chiefs of Staff to consult with the Committee not later than 90 days after the enactment of this act regarding coordination across the Department and among the Global Combatant Commands on the development and application of policies related to civilian casualties, including to ensure that the necessary personnel and resources are available on the Joint Staff to advise the Chairman on strategy and planning regarding compliance with such policies.

Train, Advise, Assist, and Accompany Activities.—The Committee is concerned about issues identified in the Army Regulation 15–6 Investigation, October 4, 2017 Enemy Contact Event in Tongo Tongo, Niger, in particular systemic issues with train, advise, assist, and accompany activities that fail to comply with well-established parameters and guidance. The Committee agrees with the report’s findings that the Department should review these activities and the training provided to U.S. forces engaged in them, to ensure that they, and their partner forces, fully understand the advise and assist role and its limitations. In order to more fully understand the extent of these issues, the Committee directs the Secretary of Defense to report to the congressional defense committees on its world-wide counter-terrorism train, advise, assist, and accompany activities and the steps taken to implement the 15–6 Investigation’s recommendations related to these missions.

OPERATION AND MAINTENANCE, ARMY RESERVE

| | |
|--------------------------------|--------------|
| Appropriations, 2018 | \$24,699,000 |
| Budget estimate, 2019 | 41,887,000 |
| Committee recommendation | 41,887,000 |

The Committee recommends an appropriation of \$41,887,000. This is equal to the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table details the program recommended by the Committee:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|--|----------------------|--------------------------|-----------------------------|
| 113 | Echelons Above Brigade | 20,700 | 20,700 | ..... |
| 121 | Force Readiness Operations Support | 700 | 700 | ..... |
| 131 | Base Operations Support | 20,487 | 20,487 | ..... |
| | Total, Operation and Maintenance, Army Reserve | 41,887 | 41,887 | ..... |

OPERATION AND MAINTENANCE, NAVY RESERVE

| | |
|--------------------------------|--------------|
| Appropriations, 2018 | \$23,980,000 |
| Budget estimate, 2019 | 25,637,000 |
| Committee recommendation | 25,637,000 |

The Committee recommends an appropriation of \$25,637,000. This is equal to the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table details the program recommended by the Committee:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|--|----------------------|--------------------------|-----------------------------|
| 1A3A | Intermediate Maintenance | 500 | 500 | ..... |
| 1A5A | Aircraft Depot Maintenance | 11,400 | 11,400 | ..... |
| 1C6C | Combat Support Forces | 13,737 | 13,737 | ..... |
| | Total, Operation and Maintenance, Navy Reserve | 25,637 | 25,637 | ..... |

OPERATION AND MAINTENANCE, MARINE CORPS RESERVE

| | |
|--------------------------------|-------------|
| Appropriations, 2018 | \$3,367,000 |
| Budget estimate, 2019 | 3,345,000 |
| Committee recommendation | 3,345,000 |

The Committee recommends an appropriation of \$3,345,000. This is equal to the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table details the program recommended by the Committee:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|--|----------------------|--------------------------|-----------------------------|
| 1A1A | Operational Forces | 2,550 | 2,550 | ..... |
| BSS1 | Base Operating Support | 795 | 795 | ..... |
| | Total, Operation and Maintenance, Marine Corps Reserve | 3,345 | 3,345 | ..... |

OPERATION AND MAINTENANCE, AIR FORCE RESERVE

| | |
|--------------------------------|--------------|
| Appropriations, 2018 | \$53,523,000 |
| Budget estimate, 2019 | 60,500,000 |
| Committee recommendation | 60,500,000 |

The Committee recommends an appropriation of \$60,500,000. This is equal to the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table details the program recommended by the Committee:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|---|----------------------|--------------------------|-----------------------------|
| 011M | Depot Purchase Equipment Maintenance | 51,000 | 51,000 | ..... |
| 011Z | Base Operating Support | 9,500 | 9,500 | ..... |
| | Total, Operation and Maintenance, Air Force Reserve | 60,500 | 60,500 | ..... |

OPERATION AND MAINTENANCE, ARMY NATIONAL GUARD

| | |
|--------------------------------|---------------|
| Appropriations, 2018 | \$108,111,000 |
| Budget estimate, 2019 | 110,729,000 |
| Committee recommendation | 110,729,000 |

The Committee recommends an appropriation of \$110,729,000. This is equal to the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table details the program recommended by the Committee:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|---|----------------------|--------------------------|-----------------------------|
| 111 | Maneuver Units | 42,519 | 42,519 | ..... |
| 112 | Modular Support Brigades | 778 | 778 | ..... |
| 113 | Echelons Above Brigade | 12,093 | 12,093 | ..... |
| 114 | Theater Level Assets | 708 | 708 | ..... |
| 116 | Aviation Assets | 28,135 | 28,135 | ..... |
| 121 | Force Readiness Operations Support | 5,908 | 5,908 | ..... |
| 131 | Base Operations Support | 18,877 | 18,877 | ..... |
| 133 | Management and Operational Headquarters | 956 | 956 | ..... |
| 432 | Servicewide Communications | 755 | 755 | ..... |
| | Total, Operation and Maintenance, Army National Guard | 110,729 | 110,729 | ..... |

OPERATION AND MAINTENANCE, AIR NATIONAL GUARD

| | |
|--------------------------------|--------------|
| Appropriations, 2018 | \$15,400,000 |
| Budget estimate, 2019 | 15,870,000 |
| Committee recommendation | 15,870,000 |

The Committee recommends an appropriation of \$15,870,000. This is equal to the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table details the program recommended by the Committee:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|--|----------------------|--------------------------|-----------------------------|
| 011G | Mission Support Operations | 3,560 | 3,560 | ..... |
| 011Z | Base Support | 12,310 | 12,310 | ..... |
| | Total, Operation and Maintenance, Air National Guard | 15,870 | 15,870 | ..... |

AFGHANISTAN SECURITY FORCES FUND

| | |
|--------------------------------|-----------------|
| Appropriations, 2018 | \$4,666,815,000 |
| Budget estimate, 2019 | 5,199,450,000 |
| Committee recommendation | 4,666,815,000 |

The Committee recommends an appropriation of \$4,666,815,000. This is \$532,635,000 below the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table details the program recommended by the Committee:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|---|----------------------|--------------------------|-----------------------------|
| | Sustainment | 1,522,777 | 1,365,956 | - 156,821 |
| | Insufficient budget justification ..... | ..... | ..... | - 156,821 |
| | Infrastructure | 137,732 | 82,540 | - 55,192 |
| | Insufficient budget justification ..... | ..... | ..... | - 55,192 |
| | Equipment and Transportation | 71,922 | 61,922 | - 10,000 |
| | Insufficient budget justification ..... | ..... | ..... | - 10,000 |
| | Training and Operations | 175,846 | 155,846 | - 20,000 |
| | Insufficient budget justification ..... | ..... | ..... | - 20,000 |
| | Subtotal: Afghan National Army | 1,908,277 | 1,666,264 | - 242,013 |
| | Sustainment | 527,554 | 487,554 | - 40,000 |
| | Insufficient budget justification ..... | ..... | ..... | - 40,000 |
| | Infrastructure | 42,984 | 25,000 | - 17,984 |
| | Insufficient budget justification ..... | ..... | ..... | - 17,984 |
| | Equipment and Transportation | 14,554 | 14,554 | ..... |
| | Training and Operations | 181,922 | 86,501 | - 95,421 |
| | Insufficient budget justification ..... | ..... | ..... | - 95,421 |
| | Subtotal: Afghan National Police | 767,014 | 613,609 | - 153,405 |
| | Sustainment | 942,279 | 902,452 | - 39,827 |
| | Insufficient budget justification ..... | ..... | ..... | - 39,827 |
| | Infrastructure | 30,350 | 30,350 | ..... |
| | Equipment and Transportation | 572,310 | 537,310 | - 35,000 |
| | Insufficient budget justification ..... | ..... | ..... | - 35,000 |
| | Training and Operations | 277,191 | 259,801 | - 17,390 |
| | Insufficient budget justification ..... | ..... | ..... | - 17,390 |
| | Subtotal: Afghan Air Force | 1,822,130 | 1,729,913 | - 92,217 |
| | Sustainment | 353,734 | 353,734 | ..... |
| | Infrastructure | 43,132 | 43,132 | ..... |
| | Equipment and Transportation | 151,790 | 136,790 | - 15,000 |
| | Insufficient budget justification ..... | ..... | ..... | - 15,000 |
| | Training and Operations | 153,373 | 123,373 | - 30,000 |

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|--|----------------------|--------------------------|-----------------------------|
| | Insufficient budget justification ..... | ..... | ..... | – 30,000 |
| | Subtotal: Afghan Special Security Forces | 702,029 | 657,029 | – 45,000 |
| | Total, Afghanistan Security Forces Fund | 5,199,450 | 4,666,815 | – 532,635 |

Afghanistan Security Forces Fund Reprogramming and Budget Submission Requirements.—The Committee appreciates the efforts of the Department of Defense to comply with prior year direction to provide detailed execution information concurrent with the budget request and Financial Activity Plan [FAP] submissions for the Afghanistan Security Forces Fund [ASFF] appropriation. However, the Department remains unable to provide an accurate accounting of current and prior year spending at the budget justification request line level. Without such an accounting, the Committee is unable to conduct sufficient budget analysis to determine appropriate funding levels for fiscal year 2019. Therefore, the Committee recommends maintaining the fiscal year 2018 enacted budget level of \$4,666,815,000, a reduction of \$532,635,000 from the fiscal year 2019 request.

Moreover, the Committee is concerned that the budget flexibility allowed within the ASFF appropriation in the past has led to a lack of budget discipline that challenges effective congressional and executive branch oversight and risks wasteful spending. Therefore, the Committee directs that, for the ASFF appropriation, the Secretary of Defense comply with reprogramming procedures required elsewhere in this report for the service and defense wide appropriations.

—The Secretary of Defense shall submit the Base for Reprogramming (DD Form 1414) for ASFF for fiscal year 2019, not later than 60 days after the enactment of this act. The Secretary of Defense is prohibited from executing any reprogramming or transfer of funds for any purpose other than originally appropriated until the aforementioned report is submitted to the House and Senate Appropriations Committees.

—Items for which additional funds have been recommended or items for which funding is specifically reduced as shown in the tables detailing Committee recommended adjustments or in paragraphs using the phrase “only for” or “only to” are congressional special interest items for the purpose of the Base for Reprogramming (DD Form 1414). Each of these items must be carried on the DD Form 1414 at the stated amount, as specifically addressed elsewhere in this report.

—The Secretary of Defense shall use prior approval reprogramming procedures to transfer funds in excess of \$20,000,000 between ASFF sub-activity groups.

The Committee continues direction that the Secretary shall provide budget justification materials that include: the budget request amount, the appropriated amount, and the actual obligation amount by line item, for the prior 2 years. In addition, concurrent with the submission of each FAP, the Secretary of Defense shall

provide the congressional defense committees with line item detail of planned funding movements within each ASFF sub-activity group using line item titles from the appropriate year's budget justification submission. Any line item that did not appear in the budget justification submission shall be delineated as a new line item in the line item detail accompanying the FAP.

COUNTER-ISIS TRAIN AND EQUIP FUND

| | |
|--------------------------------|-----------------|
| Appropriations, 2018 | \$1,769,000,000 |
| Budget estimate, 2019 | 1,400,000,000 |
| Committee recommendation | 994,000,000 |

The Committee recommends an appropriation of \$994,000,000. This is \$406,000,000 below the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table details the program recommended by the Committee:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|--|----------------------|--------------------------|-----------------------------|
| | Counter-ISIS Train and Equip Fund | 1,400,000 | 994,000 | - 406,000 |
| | Insufficient budget documentation: Iraq—Miscellaneous Items ..... | ..... | ..... | - 84,000 |
| | Insufficient budget documentation: Syria—Non-NATO standard weapons ..... | ..... | ..... | - 72,000 |
| | Reduce duplication: Border security ..... | ..... | ..... | - 250,000 |
| | Total, Counter-ISIS Train and Equip Fund | 1,400,000 | 994,000 | - 406,000 |

PROCUREMENT

The Committee recommends \$12,574,963,000 for the procurement accounts. The Overseas Contingency Operations funding supports our forces engaged in Operation Enduring Freedom and other contingency operations. The Committee recommends funding to replace combat losses and equipment left behind in theater, augment and upgrade equipment for deploying units, sustain munitions and other war consumables, and reset the units returning home to an equipment-ready status. Funding adjustments have been made in instances where the requirement was poorly defined, funding was requested ahead of need or program execution has been delayed.

AIRCRAFT PROCUREMENT, ARMY

| | |
|--------------------------------|---------------|
| Appropriations, 2018 | \$420,086,000 |
| Budget estimate, 2019 | 363,363,000 |
| Committee recommendation | 363,363,000 |

The Committee recommends an appropriation of \$363,363,000 below. This is equal to the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table details the program recommended by the Committee:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|---|----------------------|--------------------------|-----------------------------|
| 3 | MQ-1 UAV | 60,000 | 60,000 | ..... |
| 11 | UH-60 Blackhawk M Model [MYP] | 21,246 | 21,246 | ..... |
| 14 | CH-47 Helicopter | 25,000 | 25,000 | ..... |
| 17 | MQ-1 Payload [MIP] | 11,400 | 11,400 | ..... |
| 19 | Gray Eagle Mods2 | 32,000 | 32,000 | ..... |
| 20 | Multi Sensor ABN Recon [MIP] | 51,000 | 51,000 | ..... |
| 32 | RQ-7 UAV MODS | 50,868 | 50,868 | ..... |
| 33 | UAS MODS | 3,402 | 3,402 | ..... |
| 36 | CMWS | 84,387 | 84,387 | ..... |
| 37 | Common Infrared Countermeasures (CIRCM) | 24,060 | 24,060 | ..... |
| | Total, Aircraft Procurement, Army | 363,363 | 363,363 | ..... |

MISSILE PROCUREMENT, ARMY

| | |
|--------------------------------|---------------|
| Appropriations, 2018 | \$709,283,000 |
| Budget estimate, 2019 | 1,802,351,000 |
| Committee recommendation | 1,740,985,000 |

The Committee recommends an appropriation of \$1,740,985,000. This is \$61,366,000 below the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table details the program recommended by the Committee:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|---|----------------------|--------------------------|-----------------------------|
| 2 | MSE Missile | 260,000 | 260,000 | ..... |
| 5 | Hellfire Sys Summary | 255,040 | 193,674 | - 61,366 |
| | Improving funds management: Munitions funded in Public Law 115-141 ..... | ..... | ..... | - 50,000 |
| | Insufficient budget justification: Reimbursable to direct conversions unaccounted for ..... | ..... | ..... | - 1,366 |
| | Improving funds management: Forward financing support costs ..... | ..... | ..... | - 10,000 |
| 8 | Javelin (Aaws-M) System Summary | 31,120 | 31,120 | ..... |
| 11 | Guided MLRS Rocket [GMLRS] | 624,500 | 624,500 | ..... |
| 13 | High Mobility Artillery Rocket System [HIMARS] | 171,138 | 171,138 | ..... |
| 14 | LETHAL MINIATURE AERIAL MISSILE SYSTEM [LMAMS] | 112,973 | 112,973 | ..... |
| 16 | ATACMS MODS | 225,580 | 225,580 | ..... |
| 21 | MLRS Mods | 122,000 | 122,000 | ..... |
| | Total, Missile Procurement, Army | 1,802,351 | 1,740,985 | - 61,366 |

PROCUREMENT OF WEAPONS AND TRACKED COMBAT VEHICLES, ARMY

| | |
|--------------------------------|-----------------|
| Appropriations, 2018 | \$1,191,139,000 |
| Budget estimate, 2019 | 1,107,183,000 |
| Committee recommendation | 1,107,183,000 |

The Committee recommends an appropriation of \$1,107,183,000. This is equal to the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table details the program recommended by the Committee:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|---|----------------------|--------------------------|-----------------------------|
| 1 | Bradley Program | 205,000 | 205,000 | ..... |
| 2 | Armored Multi Purpose Vehicle [AMPV] | 230,359 | 230,359 | ..... |
| 6 | Bradley Program (MOD) | 50,000 | 50,000 | ..... |
| 8 | Paladin Integrated Management [PIM] | 67,000 | 67,000 | ..... |
| 9 | Improved Recovery Vehicle (M88A2 Hercules) | 42,354 | 42,354 | ..... |
| 14 | M1 Abrams Tank (MOD) | 34,000 | 34,000 | ..... |
| 15 | Abrams Upgrade Program | 455,000 | 455,000 | ..... |
| 18 | M240 Medium Machine Gun (7.62MM) | 126 | 126 | ..... |
| 22 | Mortar Systems | 11,842 | 11,842 | ..... |
| 25 | Carbine | 1,800 | 1,800 | ..... |
| 27 | Common Remotely Operated Weapons Station | 3,378 | 3,378 | ..... |
| 32 | M2 50 Cal Machine Gun Mods | 4,920 | 4,920 | ..... |
| 34 | M240 Medium Machine Gun Mods | 7 | 7 | ..... |
| 39 | Items Less Than \$5.0m (WOCV-WTCV) | 1,397 | 1,397 | ..... |
| | Total, Procurement of Weapons and Tracked Combat Vehicles, Army | 1,107,183 | 1,107,183 | ..... |

PROCUREMENT OF AMMUNITION, ARMY

| | |
|--------------------------------|---------------|
| Appropriations, 2018 | \$191,836,000 |
| Budget estimate, 2019 | 309,525,000 |
| Committee recommendation | 299,075,000 |

The Committee recommends an appropriation of \$299,075,000. This is \$10,450,000 below the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table details the program recommended by the Committee:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|---|----------------------|--------------------------|-----------------------------|
| 1 | Ctg, 5.56mm, All Types | 3,392 | 3,392 | ..... |
| 2 | CTG, 7.62mm, All Types | 40 | 40 | ..... |
| 3 | CTG, Handgun, All Types | 17 | 17 | ..... |
| 4 | CTG, .50 Cal, All Types | 189 | 189 | ..... |
| 5 | CTG, 20mm, All Types | 1,605 | 1,605 | ..... |
| 7 | CTG, 30mm, All Types | 25,000 | 25,000 | ..... |
| 9 | 60MM Mortar, All Types | 218 | 218 | ..... |
| 10 | 81MM Mortar, All Types | 484 | 484 | ..... |
| 14 | Artillery Projectile, 155MM, All Types | 79,400 | 79,400 | ..... |
| 15 | Proj 155mm Extended Range M982 | 72,985 | 72,985 | ..... |
| 16 | Artillery Propellants, Fuzes and Primers, All | 63,900 | 63,900 | ..... |
| 18 | Shoulder Launched Munitions, All Types | 22,242 | 11,792 | - 10,450 |
| | Improving funds management: program delays ..... | ..... | ..... | - 10,450 |
| 19 | Rocket, Hydra 70, All Types | 39,974 | 39,974 | ..... |
| 21 | Demolition Munitions, All Types | 5 | 5 | ..... |
| 22 | Grenades, All Types | 8 | 8 | ..... |
| 27 | Items Less Than \$5 Million (AMMO) | 66 | 66 | ..... |
| | Total, Procurement of Ammunition, Army | 309,525 | 299,075 | - 10,450 |

OTHER PROCUREMENT, ARMY

| | |
|--------------------------------|---------------|
| Appropriations, 2018 | \$405,575,000 |
| Budget estimate, 2019 | 1,382,047,000 |
| Committee recommendation | 1,372,487,000 |

The Committee recommends an appropriation of \$1,372,487,000. This is \$9,560,000 below the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table details the program recommended by the Committee:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|--|----------------------|--------------------------|-----------------------------|
| 2 | Semitrailers, Flatbed: | 8,000 | 8,000 | ..... |
| 3 | Ambulance, 4 LITTER, 5/4 TON, 4x4 | 20,770 | 20,770 | ..... |
| 10 | Family of Heavy Tactical Vehicles [FHTV] | 115,400 | 39,400 | - 76,000 |
| | Transfer: Army requested transfer to OPA line 12 ..... | ..... | ..... | - 76,000 |
| 11 | Pls Esp ..... | ..... | ..... | ..... |
| 12 | Hvy Expanded Mobile Tactical Truck Ext Serv | 6,682 | 82,682 | + 76,000 |
| | Transfer: Army requested transfer from OPA line 10 ..... | ..... | ..... | + 76,000 |
| 13 | Tactical Wheeled Vehicle Protection Kits | 50,000 | 50,000 | ..... |
| 14 | Modification of In Svc Equip | 186,377 | 186,377 | ..... |
| 15 | Mine-Resistant Ambush-Protected [MRAP] Mods ..... | ..... | ..... | ..... |
| 20 | Signal Modernization Program ..... | ..... | ..... | ..... |
| 28 | Transportable Tactical Command Communications | 7,100 | 7,100 | ..... |
| 37 | Joint Tactical Radio System | 1,560 | 1,560 | ..... |
| 42 | Tractor Ride | 13,190 | 13,190 | ..... |
| 45 | Tactical Communications and Protective System | 9,549 | 9,549 | ..... |
| 47 | COTS Communications Equipment | 22,000 | 22,000 | ..... |
| 50 | CI Automation Architecture [MIP] | 9,800 | 9,800 | ..... |
| 55 | Communications Security [COMSEC] | 3 | ..... | - 3 |
| | Maintain program affordability: Unjustified request ..... | ..... | ..... | - 3 |
| 59 | Base Support Communications | 690 | 690 | ..... |
| 60 | Information Systems | 8,750 | 8,750 | ..... |
| 63 | Installation Info Infrastructure Mod Program | 60,337 | 60,337 | ..... |
| 68 | DCGS-A [MIP] | 37,806 | 37,806 | ..... |
| 70 | Trojan [MIP] | 6,926 | 6,926 | ..... |
| 71 | Mod of In-Svc Equip (Intel Spt) [MIP] | 2,011 | 2,011 | ..... |
| 72 | CI HUMINT Auto Reprting & Coll [CHARCS] [MIP] ..... | ..... | ..... | ..... |
| 75 | Biometric Tactical Collection Devices [MIP] | 5,370 | 5,370 | ..... |
| 80 | Crew | 42,651 | 42,651 | ..... |
| 81 | Family of Persistent Surveillance Cap. [MIP] | 20,050 | 20,050 | ..... |
| 82 | Counterintelligence/Security Countermeasures | 12,974 | 12,974 | ..... |
| 85 | Night Vision Devices | 463 | 463 | ..... |
| 86 | Long Range Advanced Scout Surveillance System | 2,861 | 2,861 | ..... |
| 87 | Small Tactical Optical Rifle Mounted MLRF | 60 | 60 | ..... |
| 88 | Radiation Monitoring Systems | 11 | ..... | - 11 |
| | Maintain program affordability: Unjustified request ..... | ..... | ..... | - 11 |
| 90 | Indirect Fire Protection Family of Systems | 251,062 | 251,062 | ..... |
| 91 | Family of Weapon Sights (FWS) | 525 | 525 | ..... |
| 94 | Joint Battle Command—Platform [JBC-P] | 26,146 | 18,300 | - 7,846 |
| | Maintain program affordability: Unjustified program growth ..... | ..... | ..... | - 7,846 |
| 96 | Mod of In-Svc Equip [LLDR] | 4,050 | 4,050 | ..... |
| 97 | Computer Ballistics: LHMCB XM32 | 960 | 960 | ..... |
| 98 | Mortar Fire Control System | 7,660 | 7,660 | ..... |
| 99 | Counterfire Radars | 165,200 | 165,200 | ..... |
| 102 | AIR & MSL Defense Planning & Control Sys ..... | ..... | ..... | ..... |
| 112 | Automated Data Processing Equip | 28,475 | 28,475 | ..... |
| 121 | Protective Systems | 27 | 27 | ..... |
| 122 | Family of Non-Lethal Equipment [FNLE] | 20,200 | 20,200 | ..... |
| 123 | Base Defense Systems [BDS] | 39,200 | 39,200 | ..... |
| 124 | CBRN Defense | 2,317 | 2,317 | ..... |

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|--|----------------------|--------------------------|-----------------------------|
| 129 | Grnd Standoff Mine Detectn Systm [GSTAMIDS] | 16,000 | 14,335 | - 1,665 |
| | Maintain program affordability: Unjustified program growth | | | - 1,665 |
| 130 | Area Mine Detection System [AMDS] | 1 | | - 1 |
| | Maintain program affordability: Unjustified request | | | - 1 |
| 132 | Robotic Combat Support System [RCSS] | 4,850 | 4,850 | |
| 136 | Remote Demolition Systems | 1 | | - 1 |
| | Maintain program affordability: Unjustified request | | | - 1 |
| 139 | Heaters and ECU'S | 270 | 270 | |
| 141 | Personnel Recovery Support System [PRSS] | 4,300 | 4,300 | |
| 142 | Ground Soldier System | 1,725 | 1,725 | |
| 144 | Force Provider | 55,800 | 55,800 | |
| 145 | Field Feeding Equipment | 1,035 | 1,035 | |
| 146 | Cargo Aerial Del & Personnel Parachute System | 1,980 | 1,980 | |
| 151 | Combat Support Medical | 17,527 | 17,527 | |
| 152 | Mobile Maintenance Equipment Systems | | | |
| 153 | Items Less Than \$5.0M (Maint Eq) | 268 | 268 | |
| 156 | Hydraulic Excavator | | | |
| 159 | High Mobility Engineer Excavator [HMEE] | 25,700 | 25,700 | |
| 165 | Generators and Associated Equip | 569 | 569 | |
| 169 | Training Devices, Nonsystem | | | |
| 174 | Integrated Family of Test Equipment [IFTE] | 9,495 | 9,495 | |
| 176 | M25 Stabilized Binocular | 33 | | - 33 |
| | Maintain program affordability: Unjustified request | | | - 33 |
| 177 | Rapid Equipping Soldier Support Equipment | 18,000 | 18,000 | |
| 178 | Physical Security Systems (OPA3) | 6,000 | 6,000 | |
| 179 | Base Level Common Equipment | 2,080 | 2,080 | |
| 180 | Modification of In-Svc Equipment (OPA3) | 19,200 | 19,200 | |
| | Total, Other Procurement, Army | 1,382,047 | 1,372,487 | - 9,560 |

AIRCRAFT PROCUREMENT, NAVY

| | |
|--------------------------------|---------------|
| Appropriations, 2018 | \$157,300,000 |
| Budget estimate, 2019 | 80,119,000 |
| Committee recommendation | 80,119,000 |

The Committee recommends an appropriation of \$80,119,000. This is equal to the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table details the program recommended by the Committee:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|---|----------------------|--------------------------|-----------------------------|
| 25 | STUASLO UAV | 35,065 | 35,065 | |
| 32 | SH-60 Series | 4,858 | 4,858 | |
| 34 | EP-3 Series | 5,380 | 5,380 | |
| 44 | Special Project Aircraft | 2,165 | 2,165 | |
| 49 | Common ECM Equipment | 9,820 | 9,820 | |
| 51 | Common Defensive Weapon System | 3,206 | 3,206 | |
| 61 | QRC | 2,410 | 2,410 | |
| 63 | RQ-21 | 17,215 | 17,215 | |
| | Total, Aircraft Procurement, Navy | 80,119 | 80,119 | |

WEAPONS PROCUREMENT, NAVY

| | |
|--------------------------------|---------------|
| Appropriations, 2018 | \$130,994,000 |
| Budget estimate, 2019 | 14,134,000 |
| Committee recommendation | 14,134,000 |

The Committee recommends an appropriation of \$14,134,000. This is equal to the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table details the program recommended by the Committee:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|--|----------------------|--------------------------|-----------------------------|
| 4 | AMRAAM | 1,183 | 1,183 | ..... |
| 5 | Sidewinder | 381 | 381 | ..... |
| 12 | Hellfire | 1,530 | 1,530 | ..... |
| 15 | Aerial Targets | 6,500 | 6,500 | ..... |
| 35 | Small Arms and Weapons | 1,540 | 1,540 | ..... |
| 38 | Gun Mount Mods | 3,000 | 3,000 | ..... |
| | Total, Weapons Procurement, Navy | 14,134 | 14,134 | ..... |

PROCUREMENT OF AMMUNITION, NAVY AND MARINE CORPS

| | |
|--------------------------------|---------------|
| Appropriations, 2018 | \$233,406,000 |
| Budget estimate, 2019 | 246,541,000 |
| Committee recommendation | 223,312,000 |

The Committee recommends an appropriation of \$223,312,000. This is \$23,229,000 below the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table details the program recommended by the Committee:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|--|----------------------|--------------------------|-----------------------------|
| 1 | General Purpose Bombs | 62,530 | 41,530 | - 21,000 |
| | Improving funds management: Previously funded requirements | | | - 21,000 |
| 2 | JDAM | 93,019 | 93,019 | ..... |
| 3 | Airborne Rockets, All Types | 2,163 | 2,163 | ..... |
| 4 | Machine Gun Ammunition | 5,000 | 5,000 | ..... |
| 6 | Cartridges & Cart Actuated Devices | 5,334 | 5,334 | ..... |
| 7 | Air Expendable Countermeasures | 36,580 | 36,580 | ..... |
| 8 | JATOS | 747 | 747 | ..... |
| 11 | Other Ship Gun Ammunition | 2,538 | 2,538 | ..... |
| 13 | Pyrotechnic and Demolition | 1,807 | 1,807 | ..... |
| 15 | Ammunition Less Than \$5 Million | 2,229 | | - 2,229 |
| | Improving funds management: Prior year carryover | | | - 2,229 |
| 19 | Mortars | 2,018 | 2,018 | ..... |
| 21 | Direct Support Munitions | 632 | 632 | ..... |
| 22 | Infantry Weapons Ammunition | 779 | 779 | ..... |
| 26 | Combat Support Munitions | 164 | 164 | ..... |
| 29 | Artillery Munitions | 31,001 | 31,001 | ..... |
| | Total, Procurement of Ammunition, Navy and Marine Corps | 246,541 | 223,312 | - 23,229 |

OTHER PROCUREMENT, NAVY

| | |
|--------------------------------|---------------|
| Appropriations, 2018 | \$239,359,000 |
| Budget estimate, 2019 | 187,173,000 |
| Committee recommendation | 181,173,000 |

The Committee recommends an appropriation of \$181,173,000. This is \$6,000,000 below the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table details the program recommended by the Committee:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|---|----------------------|--------------------------|-----------------------------|
| 21 | Underwater EOD Programs | 9,200 | 9,200 | ..... |
| 28 | Standard Boats | 19,060 | 19,060 | ..... |
| 43 | Fixed Surveillance System | 56,950 | 56,950 | ..... |
| 77 | Satellite Communications Systems | 3,200 | 3,200 | ..... |
| 82 | Cryptologic Communications Equip | 2,000 | 2,000 | ..... |
| 88 | Sonobuoys—All Types | 21,156 | 21,156 | ..... |
| 104 | Explosive Ordnance Disposal Equip | 33,580 | 27,580 | - 6,000 |
| | Restoring acquisition accountability: JCREW excess unit cost growth ..... | ..... | ..... | - 6,000 |
| 108 | Passenger Carrying Vehicles | 170 | 170 | ..... |
| 109 | General Purpose Trucks | 400 | 400 | ..... |
| 111 | Fire Fighting Equipment | 770 | 770 | ..... |
| 112 | Tactical Vehicles | 7,298 | 7,298 | ..... |
| 118 | First Destination Transportation | 500 | 500 | ..... |
| 123 | Medical Support Equipment | 6,500 | 6,500 | ..... |
| 128 | Environmental Support Equipment | 2,200 | 2,200 | ..... |
| 129 | Physical Security Equipment | 19,389 | 19,389 | ..... |
| 999 | Classified Programs | 4,800 | 4,800 | ..... |
| | Total, Other Procurement, Navy | 187,173 | 181,173 | - 6,000 |

PROCUREMENT, MARINE CORPS

| | |
|--------------------------------|--------------|
| Appropriations, 2018 | \$64,307,000 |
| Budget estimate, 2019 | 58,023,000 |
| Committee recommendation | 58,023,000 |

The Committee recommends an appropriation of \$58,023,000. This is equal to the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table details the program recommended by the Committee:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|--|----------------------|--------------------------|-----------------------------|
| 22 | Fire Support System | 5,583 | 5,583 | ..... |
| 37 | Motor Transport Modifications | 44,440 | 44,440 | ..... |
| 45 | EOD Systems | 8,000 | 8,000 | ..... |
| | Total, Procurement, Marine Corps | 58,023 | 58,023 | ..... |

AIRCRAFT PROCUREMENT, AIR FORCE

| | |
|--------------------------------|---------------|
| Appropriations, 2018 | \$503,938,000 |
| Budget estimate, 2019 | 1,018,888,000 |
| Committee recommendation | 1,007,888,000 |

The Committee recommends an appropriation of \$1,007,888,000. This is \$11,000,000 below the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table details the program recommended by the Committee:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|--|----------------------|--------------------------|-----------------------------|
| 6 | HC-130J | 100,000 | 89,000 | - 11,000 |
| | Restoring acquisition accountability: Unit cost growth | | | - 11,000 |
| 17 | MQ-9 | 339,740 | 339,740 | |
| 18 | RQ-20B Puma | 13,500 | 13,500 | |
| 20 | B-1B | 4,000 | 4,000 | |
| 22 | Large Aircraft Infrared Countermeasures | 149,778 | 149,778 | |
| 23 | A-10 | 10,350 | 10,350 | |
| 45 | U-2 Mods | 7,900 | 7,900 | |
| 54 | Compass Call Mods | 36,400 | 36,400 | |
| 59 | E-8 | 13,000 | 13,000 | |
| 63 | H-60 | 40,560 | 40,560 | |
| 65 | HC/MC-130 Modifications | 87,900 | 87,900 | |
| 66 | Other Aircraft | 53,731 | 53,731 | |
| 68 | MQ-9 UAS Payloads | 16,000 | 16,000 | |
| 70 | Initial Spares/Repair Parts | 91,500 | 91,500 | |
| 71 | Aircraft Replacement Support Equip | 32,529 | 32,529 | |
| 77 | Other Production Charges | 22,000 | 22,000 | |
| | Total, Aircraft Procurement, Air Force | 1,018,888 | 1,007,888 | - 11,000 |

MISSILE PROCUREMENT, AIR FORCE

| | |
|--------------------------------|---------------|
| Appropriations, 2018 | \$481,700,000 |
| Budget estimate, 2019 | 493,526,000 |
| Committee recommendation | 493,526,000 |

The Committee recommends an appropriation of \$493,526,000. This is equal to the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table details the program recommended by the Committee:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|--|----------------------|--------------------------|-----------------------------|
| 2 | Joint Air-Surface Standoff Missile | 61,600 | 61,600 | |
| 5 | AMRAAM | 2,600 | 2,600 | |
| 6 | Predator Hellfire Missile | 255,000 | 255,000 | |
| 7 | Small Diameter Bomb | 140,724 | 140,724 | |
| 13 | AGM-65D Maverick | 33,602 | 33,602 | |
| | Total, Missile Procurement, Air Force | 493,526 | 493,526 | |

PROCUREMENT OF AMMUNITION, AIR FORCE

| | |
|--------------------------------|---------------|
| Appropriations, 2018 | \$551,509,000 |
| Budget estimate, 2019 | 1,421,516,000 |
| Committee recommendation | 1,371,516,000 |

The Committee recommends an appropriation of \$1,371,516,000. This is \$50,000,000 below the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table details the program recommended by the Committee:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|---|----------------------|--------------------------|-----------------------------|
| 2 | Cartridges | 29,587 | 29,587 | ..... |
| 4 | General Purpose Bombs | 551,862 | 551,862 | ..... |
| 6 | Joint Direct Attack Munition | 738,451 | 688,451 | - 50,000 |
| | Improving funds management: Previously funded requirement ..... | ..... | ..... | - 50,000 |
| 15 | Flares | 12,116 | 12,116 | ..... |
| 16 | Fuzes | 81,000 | 81,000 | ..... |
| 17 | Small Arms | 8,500 | 8,500 | ..... |
| | Total, Procurement of Ammunition, Air Force | 1,421,516 | 1,371,516 | - 50,000 |

OTHER PROCUREMENT, AIR FORCE

| | |
|--------------------------------|-----------------|
| Appropriations, 2018 | \$3,324,590,000 |
| Budget estimate, 2019 | 3,725,944,000 |
| Committee recommendation | 3,705,044,000 |

The Committee recommends an appropriation of \$3,705,044,000. This is \$20,900,000 below the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table details the program recommended by the Committee:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|--|----------------------|--------------------------|-----------------------------|
| 1 | Passenger Carrying Vehicles | 9,680 | 9,680 | ..... |
| 2 | Medium Tactical Vehicle | 9,680 | 9,680 | ..... |
| 4 | Cargo and Utility Vehicles | 19,680 | 19,680 | ..... |
| 6 | Security And Tactical Vehicles | 24,880 | 24,880 | ..... |
| 7 | Special Purpose Vehicles | 34,680 | 34,680 | ..... |
| 8 | Fire Fighting/Crash Rescue Vehicles | 9,736 | 9,736 | ..... |
| 9 | Materials Handling Vehicles | 24,680 | 24,680 | ..... |
| 10 | Runway Snow Remov And Cleaning Equ | 9,680 | 9,680 | ..... |
| 11 | Base Maintenance Support Vehicles | 9,680 | 9,680 | ..... |
| 15 | Intelligence Comm Equipment | 6,156 | 6,156 | ..... |
| 16 | Air Traffic Control & Landing Sys | 56,884 | 35,984 | - 20,900 |
| | D-RAPCON ..... | ..... | ..... | - 20,900 |
| 29 | Air Force Physical Security System | 46,236 | 46,236 | ..... |
| 37 | Theater Battle Mgt C2 System | 2,500 | 2,500 | ..... |
| 45 | Tactical C-E Equipment | 27,911 | 27,911 | ..... |
| 51 | Personal Safety and Rescue Equipment | 13,600 | 13,600 | ..... |
| 53 | Base Procured Equipment | 28,800 | 28,800 | ..... |
| 54 | Engineering and EOD Equipment | 53,500 | 53,500 | ..... |
| 55 | Mobility Equipment | 78,562 | 78,562 | ..... |
| 56 | Base Maintenance and Support Equipment | 28,055 | 28,055 | ..... |

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|---|----------------------|--------------------------|-----------------------------|
| 59 | DCGS-AF | 2,000 | 2,000 | ..... |
| 999 | Classified Programs | 3,229,364 | 3,229,364 | ..... |
| | Total, Other Procurement, Air Force | 3,725,944 | 3,705,044 | - 20,900 |

PROCUREMENT, DEFENSE-WIDE

| | |
|--------------------------------|---------------|
| Appropriations, 2018 | \$517,041,000 |
| Budget estimate, 2019 | 572,135,000 |
| Committee recommendation | 557,135,000 |

The Committee recommends an appropriation of \$557,135,000. This is \$15,000,000 below the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table details the program recommended by the Committee:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|---|----------------------|--------------------------|-----------------------------|
| 8 | Teleport Program | 3,800 | 3,800 | ..... |
| 17 | Defense Information Systems Network | 12,000 | 12,000 | ..... |
| 25 | Counter IED & Improvised Threat Technologies | 5,534 | 5,534 | ..... |
| 47 | Manned ISR | 5,000 | 5,000 | ..... |
| 48 | MC-12 | 5,000 | 5,000 | ..... |
| 49 | MH-60 Blackhawk | 27,600 | 27,600 | ..... |
| 51 | Unmanned ISR | 17,000 | 17,000 | ..... |
| 52 | Non-Standard Aviation | 13,000 | 13,000 | ..... |
| 53 | U-28 | 51,722 | 51,722 | ..... |
| 54 | MH-47 Chinook | 36,500 | 36,500 | ..... |
| 61 | Ordnance Items <\$5M | 100,850 | 85,850 | - 15,000 |
| | Restoring acquisition accountability: Unit cost adjustments | | | - 15,000 |
| 62 | Intelligence Systems | 16,500 | 16,500 | ..... |
| 64 | Other Items <\$5M | 7,700 | 7,700 | ..... |
| 67 | Tactical Vehicles | 59,891 | 59,891 | ..... |
| 68 | Warrior Systems <\$5M | 21,135 | 21,135 | ..... |
| 69 | Combat Mission Requirements | 10,000 | 10,000 | ..... |
| 71 | Operational Enhancements Intelligence | 10,805 | 10,805 | ..... |
| 73 | Operational Enhancements | 126,539 | 126,539 | ..... |
| 999 | Classified Programs | 41,559 | 41,559 | ..... |
| | Total, Procurement, Defense-wide | 572,135 | 557,135 | - 15,000 |

RESEARCH, DEVELOPMENT, TEST AND EVALUATION

The Committee recommends \$1,175,770,000 for research, development, test and evaluation.

RESEARCH, DEVELOPMENT, TEST AND EVALUATION, ARMY

| | |
|--------------------------------|---------------|
| Appropriations, 2018 | \$235,368,000 |
| Budget estimate, 2019 | 325,104,000 |
| Committee recommendation | 325,104,000 |

The Committee recommends an appropriation of \$325,104,000. This is equal to the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table details the program recommended by the Committee:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|---|----------------------|--------------------------|-----------------------------|
| 56 | Air and Missile Defense Systems Engineering | 1,000 | 1,000 | ..... |
| 58 | Smoke, Obscurant and Target Defeating Sys-Adv Dev | 1,500 | 1,500 | ..... |
| 60 | Soldier Support and Survivability | 3,000 | 3,000 | ..... |
| 76 | Maneuver—Short Range Air Defense (M—SHORAD) | 23,000 | 23,000 | ..... |
| 88 | TRACTOR CAGE | 12,000 | 12,000 | ..... |
| 100 | Air Defense Command, Control and Intelligence—Eng Dev | 119,300 | 119,300 | ..... |
| 125 | TRACTOR TIRE | 66,760 | 66,760 | ..... |
| 128 | Common Infrared Countermeasures (CIRCM) | 2,670 | 2,670 | ..... |
| 136 | Aircraft Survivability Development | 34,933 | 34,933 | ..... |
| 147 | TROJAN—RH12 | 1,200 | 1,200 | ..... |
| 184 | Weapons and Munitions Product Improvement Programs | 2,548 | 2,548 | ..... |
| 185 | TRACTOR SMOKE | 7,780 | 7,780 | ..... |
| 206 | Missile/Air Defense Product Improvement Program | 2,000 | 2,000 | ..... |
| 209 | Integrated Base Defense—Operational System Dev | 8,000 | 8,000 | ..... |
| 216 | Security Intelligence Activities | 23,199 | 23,199 | ..... |
| 226 | Airborne Reconnaissance Systems | 14,000 | 14,000 | ..... |
| 231 | Biometrics Enabled Intelligence | 2,214 | 2,214 | ..... |
| | Total, Research, Development, Test and Evaluation, Army | 325,104 | 325,104 | ..... |

RESEARCH, DEVELOPMENT, TEST AND EVALUATION, NAVY

| | |
|--------------------------------|---------------|
| Appropriations, 2018 | \$167,565,000 |
| Budget estimate, 2019 | 167,812,000 |
| Committee recommendation | 167,812,000 |

The Committee recommends an appropriation of \$167,812,000. This is equal to the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table details the program recommended by the Committee:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|---|----------------------|--------------------------|-----------------------------|
| 41 | RETRACT LARCH | 18,000 | 18,000 | ..... |
| 61 | Joint Service Explosive Ordnance Development | 13,900 | 13,900 | ..... |
| 74 | Land Attack Technology | 1,400 | 1,400 | ..... |
| 149 | Ship Self Defense (Detect & Control) | 1,100 | 1,100 | ..... |
| 236 | Marine Corps Communications Systems | 16,130 | 16,130 | ..... |
| XXX | Classified Programs | 117,282 | 117,282 | ..... |
| | Total, Research, Development, Test and Evaluation, Navy | 167,812 | 167,812 | ..... |

RESEARCH, DEVELOPMENT, TEST AND EVALUATION, AIR FORCE

| | |
|--------------------------------|---------------|
| Appropriations, 2018 | \$129,608,000 |
| Budget estimate, 2019 | 314,271,000 |
| Committee recommendation | 287,971,000 |

The Committee recommends an appropriation of \$287,971,000. This is \$26,300,000 below the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table details the program recommended by the Committee:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|---|----------------------|--------------------------|-----------------------------|
| 65 | Space Control Technology | 1,100 | 1,100 | ..... |
| 70 | Operationally Responsive Space | 12,395 | 12,395 | ..... |
| 186 | MQ-9 UAV | 4,500 | 4,500 | ..... |
| 187 | Joint Counter RCIED Electronic Warfare | 4,000 | 4,000 | ..... |
| 188 | A-10 Squadrons | 1,000 | 1,000 | ..... |
| 217 | Battlefield Abn Comm Node (BACN) | 42,349 | 42,349 | ..... |
| 228 | Intel Data Applications | 1,200 | 1,200 | ..... |
| 254 | Weather Service | 3,000 | 3,000 | ..... |
| 268 | Dragon U-2 | 22,100 | 22,100 | ..... |
| 272 | Distributed Common Ground/Surface Systems | 29,500 | 29,500 | ..... |
| 310 | AF TENCAP | 5,000 | 5,000 | ..... |
| | Classified Programs | 188,127 | 161,827 | - 26,300 |
| | Classified adjustment | | | - 26,300 |
| | Total, Research Development, Test and Evaluation, Air Force | 314,271 | 287,971 | - 26,300 |

RESEARCH, DEVELOPMENT, TEST AND EVALUATION, DEFENSE-WIDE

| | |
|--------------------------------|---------------|
| Appropriations, 2018 | \$394,396,000 |
| Budget estimate, 2019 | 500,544,000 |
| Committee recommendation | 394,883,000 |

The Committee recommends an appropriation of \$394,883,000. This is \$105,661,000 below the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table details the program recommended by the Committee:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|---|----------------------|--------------------------|-----------------------------|
| 24 | Combating Terrorism Technology Support | 25,000 | ..... | - 25,000 |
| | Transfer funding to RDDW Base, Line 24: Anti-Tunneling ..... |  | ..... | - 25,000 |
| 26 | Counter Improvised-Threat Simulation | 13,648 | 13,648 | ..... |
| 94 | Counter Improvised-Threat Demonstration, Prototype Development, and Testing | 242,668 | 162,007 | - 80,661 |
| | JIDO program adjustment ..... |  | ..... | - 84,161 |
| | Program increase: Hyperspectral IED detection ..... |  | ..... | + 3,500 |
| 250 | Operational Enhancements | 3,632 | 3,632 | ..... |
| 251 | Warrior Systems | 11,040 | 11,040 | ..... |
| 253 | Unmanned ISR | 11,700 | 11,700 | ..... |
| 254 | SOF Tactical Vehicles | 725 | 725 | ..... |
| | Classified Programs | 192,131 | 192,131 | ..... |
| | Total, Research, Development, Test and Evaluation, Defense-Wide | 500,544 | 394,883 | - 105,661 |

Joint Improvised-Threat Defeat Organization: Hyperspectral Improvised Explosive Device Detection.—The Committee understands the need for new and emerging stand-off hyperspectral imaging [HSI] technologies for the detection of improvised explosive devices [IEDs] and for the detection of the constituent chemicals and other

materials used in the manufacture of IEDs' such as nitrates, nitrites, phosphates and ammonia. The Committee recommends an additional \$3,500,000 for HSI sensor technology development and deployment.

REVOLVING AND MANAGEMENT FUNDS

DEFENSE WORKING CAPITAL FUNDS

| | |
|--------------------------------|---------------|
| Appropriations, 2018 | \$148,956,000 |
| Budget estimate, 2019 | 15,190,000 |
| Committee recommendation | 15,190,000 |

The Committee recommends an appropriation of \$15,190,000. This is equal to the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table details the programs recommended by the Committee:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|--|----------------------|--------------------------|-----------------------------|
| | Supply Management | 6,600 | 6,600 | ..... |
| | Total, Defense Working Capital Fund, Army | 6,600 | 6,600 | ..... |
| | Supply Management | 8,590 | 8,590 | ..... |
| | Total, Defense Working Capital Fund, Air Force | 8,590 | 8,590 | ..... |
| | Grand Total, Defense Working Capital Funds | 15,190 | 15,190 | ..... |

OTHER DEPARTMENT OF DEFENSE PROGRAMS

DEFENSE HEALTH PROGRAM

| | |
|--------------------------------|---------------|
| Appropriations, 2018 | \$395,805,000 |
| Budget estimate, 2019 | 352,068,000 |
| Committee recommendation | 352,068,000 |

The Committee recommends an appropriation of \$352,068,000. This is equal to the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table details the program recommended by the Committee:

[In thousands of dollars]

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|-------------------------------------|----------------------|--------------------------|-----------------------------|
| | Operation and Maintenance ..... | ..... | ..... | ..... |
| | In-House Care | 72,627 | 72,627 | ..... |
| | Private Sector Care | 277,066 | 277,066 | ..... |
| | Consolidated Health Care | 2,375 | 2,375 | ..... |
| | Total, Defense Health Program | 352,068 | 352,068 | ..... |

DRUG INTERDICTION AND COUNTER-DRUG ACTIVITIES, DEFENSE

| | |
|--------------------------------|---------------|
| Appropriations, 2018 | \$196,300,000 |
| Budget estimate, 2019 | 153,100,000 |
| Committee recommendation | 143,100,000 |

The Committee recommends an appropriation of \$143,100,000. This is \$10,000,000 below the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table summarizes the budget estimate for this appropriation, the Committee recommendation, and the Committee recommended adjustments to the budget estimate:

(In thousands of dollars)

| Line | Item | 2019 budget estimate | Committee recommendation | Change from budget estimate |
|------|--|----------------------|--------------------------|-----------------------------|
| 1 | Enable Rapid Capability Delivery ..... | ..... | ..... | ..... |

OFFICE OF THE INSPECTOR GENERAL

| | |
|--------------------------------|--------------|
| Appropriations, 2018 | \$24,692,000 |
| Budget estimate, 2019 | 24,692,000 |
| Committee recommendation | 24,692,000 |

The Committee recommends an appropriation of \$24,692,000. This is equal to the budget estimate.

GENERAL PROVISIONS—THIS TITLE

The following lists general provisions proposed by the Committee. The Committee recommends inclusion of several proposals which have been incorporated in previous appropriations acts, provisions requested for inclusion by the Defense Department, and new provisions. The Committee recommendations are as follows:

SEC. 9001. *Funds in Addition to Base.*—Retains and modifies a provision carried in previous years.

SEC. 9002. *Special Transfer Authority.*—Retains and modifies a provision carried in previous years.

SEC. 9003. *Supervision and Administration Costs.*—Retains a provision carried in previous years.

SEC. 9004. *Vehicle Procurement.*—Retains a provision carried in previous years.

SEC. 9005. *Commanders' Emergency Response Program.*—Retains a provision carried in previous years.

SEC. 9006. *Coalition Lift and Sustainment.*—Retains a provision carried in previous years.

SEC. 9007. *Permanent Military Installations.*—Retains a provision carried in previous years.

SEC. 9008. *U.N. Convention Against Torture.*—Retains a provision carried in previous years.

SEC. 9009. *Afghanistan Resource Oversight Council.*—Retains a provision carried in previous years.

SEC. 9010. *Investment Unit Cost.*—Retains a provision carried in previous years.

SEC. 9011. *Coalition Support Funds.*—Retains a provision carried in previous years.

SEC. 9012. *C-130 Cargo Aircraft Transfers.*—Retains a provision carried in previous years.

SEC. 9013. *Rescissions.*—The Committee recommends a general provision rescinding funds from prior years as displayed below:

| | Amount |
|---|---------------|
| 2018 Appropriations | |
| Operation and Maintenance, Defense-Wide: | |
| DSCA: Security Cooperation | \$150,000,000 |
| Coalition Support Funds | 800,000,000 |
| Counter-Islamic State of Iraq and Syria Train and Equipment Fund: | |
| Counter-ISIS Train and Equip | 400,000,000 |
| Aircraft Procurement, Air Force: | |
| HC/MC-130 Modifications | 88,400,000 |

SEC. 9014. *Afghanistan Security Forces Fund Certification.*—Retains a provision carried in previous years.

SEC. 9015. *Counterterrorism Partnerships Fund Excess Equipment.*—Inserts a new provision that provides for the transfer of excess equipment to foreign forces receiving equipment through the Counter-ISIS Train and Equip Fund.

SEC. 9016. *Emergency Designation.*—Retains a provision carried in previous years.

COMPLIANCE WITH PARAGRAPH 7, RULE XVI OF THE
STANDING RULES OF THE SENATE

Paragraph 7 of rule XVI requires that Committee reports on general appropriations bills identify each Committee amendment to the House bill “which proposes an item of appropriation which is not made to carry out the provisions of an existing law, a treaty stipulation, or an act or resolution previously passed by the Senate during that session.”

The Committee recommends funding for the following accounts which currently lack authorization for fiscal year 2019:

Military Personnel, Army
Military Personnel, Navy
Military Personnel, Marine Corps
Military Personnel, Air Force
Reserve Personnel, Air Force
Reserve Personnel, Army
Reserve Personnel, Navy
Reserve Personnel, Marine Corps
Reserve Personnel, Air Force
National Guard Personnel, Army
National Guard Personnel, Air Force
Operation and Maintenance, Army
Operation and Maintenance, Navy
Operation and Maintenance, Marine Corps
Operation and Maintenance, Air Force
Operation and Maintenance, Defense-Wide
Operation and Maintenance, Army Reserve
Operation and Maintenance, Navy Reserve
Operation and Maintenance, Marine Corps Reserve
Operation and Maintenance, Army National Guard
Operation and Maintenance, Air National Guard
United States Court of Appeals for the Armed Forces
Environmental Restoration, Army
Environmental Restoration, Navy
Environmental Restoration, Air Force
Environmental Restoration, Defense-Wide
Environmental Restoration, Formerly Used Defense Sites
Overseas Humanitarian, Disaster, and Civic Aid
Cooperative Threat Reduction Account
Afghanistan Security Forces Fund
Counter-ISIS Train and Equip Fund
Aircraft Procurement, Army
Missile Procurement, Army
Procurement of Weapons and Tracked Combat Vehicles, Army
Procurement of Ammunition, Army
Other Procurement, Army
Aircraft Procurement, Navy

Weapons Procurement, Navy
 Procurement of Ammunition, Navy and Marine Corps
 Shipbuilding and Conversion, Navy
 Ohio Replacement Submarine [AP]
 Carrier Replacement Program [CVN 80]
 Virginia Class Submarine
 Virginia Class Submarine [AP]
 CVN Refueling Overhauls [AP]
 DDG-1000
 DDG-51
 DDG-51 [AP]
 Littoral Combat Ship
 LPD-17
 Expeditionary Seabase
 LHA Replacement [AP]
 Expeditionary Fast Transport (EPF)
 TAO Fleet Oiler
 TAO Fleet Oiler [AP]
 Towing, Salvage, and Rescue Ship
 LCU 1700
 Outfitting, Post Delivery, Conversions and First Destination
 Transportation
 Ship to Shore Connector
 Service Craft
 LCAC Service Life Extension Program
 Completion of Prior Year Shipbuilding Programs
 Cable Ship
 Other Procurement, Navy
 Procurement, Marine Corps
 Aircraft Procurement, Air Force
 Missile Procurement, Air Force
 Space Procurement, Air Force
 Procurement of Ammunition, Air Force
 Other Procurement, Air Force
 Procurement, Defense-Wide
 National Guard and Reserve Equipment
 Research, Development, Test, and Evaluation, Army
 Research, Development, Test, and Evaluation, Navy
 Research, Development, Test, and Evaluation, Air Force
 Research, Development, Test, and Evaluation, Defense-Wide
 Operational Test and Evaluation, Defense
 Defense Working Capital Funds
 Defense Health Program
 Chemical Agents and Munitions Destruction
 Drug Interdiction and Counter-drug Activities
 Office of the Inspector General
 Intelligence Community Management Account (ICMA)

**COMPLIANCE WITH PARAGRAPH 7(c), RULE XXVI OF THE
 STANDING RULES OF THE SENATE**

Pursuant to paragraph 7(c) of rule XXVI, on June 28, 2018, the Committee ordered favorably reported an original bill (S. 3159) making appropriations for the Department of Defense for the fiscal year ending September 30, 2019, and for other purposes, provided

that the bill be subject to amendment and that the bill be consistent with its budget allocation, and provided that the Chairman of the Committee or his designee be authorized to offer the substance of the original bill as a Committee amendment in the nature of a substitute to the House companion measure, by a recorded vote of 30–1, a quorum being present. The vote was as follows:

| Yeas | Nays |
|-----------------|-------------|
| Chairman Shelby | Mr. Merkley |
| Mr. McConnell | |
| Mr. Alexander | |
| Ms. Collins | |
| Ms. Murkowski | |
| Mr. Graham | |
| Mr. Blunt | |
| Mr. Moran | |
| Mr. Hoeven | |
| Mr. Boozman | |
| Mrs. Capito | |
| Mr. Lankford | |
| Mr. Daines | |
| Mr. Kennedy | |
| Mr. Rubio | |
| Mrs. Hyde-Smith | |
| Mr. Leahy | |
| Mrs. Murray | |
| Mrs. Feinstein | |
| Mr. Durbin | |
| Mr. Reed | |
| Mr. Tester | |
| Mr. Udall | |
| Mrs. Shaheen | |
| Mr. Coons | |
| Mr. Schatz | |
| Ms. Baldwin | |
| Mr. Murphy | |
| Mr. Manchin | |
| Mr. Van Hollen | |

COMPLIANCE WITH PARAGRAPH 12, RULE XXVI OF THE
STANDING RULES OF THE SENATE

Paragraph 12 of rule XXVI requires that Committee reports on a bill or joint resolution repealing or amending any statute or part of any statute include “(a) the text of the statute or part thereof which is proposed to be repealed; and (b) a comparative print of that part of the bill or joint resolution making the amendment and of the statute or part thereof proposed to be amended, showing by stricken-through type and italics, parallel columns, or other appropriate typographical devices the omissions and insertions which would be made by the bill or joint resolution if enacted in the form recommended by the Committee.”

The Committee bill as recommended contains no such provisions.

BUDGETARY IMPACT OF BILL

PREPARED IN CONSULTATION WITH THE CONGRESSIONAL BUDGET OFFICE PURSUANT TO SEC.
308(a), PUBLIC LAW 93-344, AS AMENDED

[In millions of dollars]

| | Budget authority | | Outlays | |
|---|----------------------|----------------|----------------------|----------------------|
| | Committee allocation | Amount in bill | Committee allocation | Amount in bill |
| Comparison of amounts in the bill with the subcommittee allocation for 2019: Subcommittee on Defense: | | | | |
| Mandatory | 514 | 514 | 514 | ¹ 514 |
| Discretionary | 607,129 | 675,043 | 588,788 | ¹ 626,073 |
| Security | 607,000 | 674,914 | NA | NA |
| Nonsecurity | 129 | 129 | NA | NA |
| Projection of outlays associated with the recommendation: | | | | |
| 2019 | | | | ² 389,030 |
| 2020 | | | | 158,968 |
| 2021 | | | | 62,553 |
| 2022 | | | | 31,501 |
| 2023 and future years | | | | 23,002 |
| Financial assistance to State and local governments for 2019 | NA | | NA | ² |

¹ Includes outlays from prior-year budget authority.

² Excludes outlays from prior-year budget authority.

NA: Not applicable.

NOTE.—Consistent with the funding recommended in the bill for overseas contingency operations and in accordance with subparagraph (A)(ii) of section 251(b)(2) of the BBEDCA of 1985, the Committee anticipates that the Budget Committee will provide a revised 302(a) allocation for the Committee on Appropriations reflecting an upward adjustment of \$67,914,000,000 in budget authority plus the associated outlays.

COMPARATIVE STATEMENT OF NEW BUDGET (OBLIGATIONAL) AUTHORITY FOR FISCAL YEAR 2018 AND BUDGET ESTIMATES AND AMOUNTS RECOMMENDED IN THE BILL FOR FISCAL YEAR 2019
 (In thousands of dollars)

| Item | 2018 appropriation | Budget estimate | Committee recommendation | Senate Committee recommendation compared with (+ or -) | |
|---|--------------------|-----------------|--------------------------|--|-----------------|
| | | | | 2018 appropriation | Budget estimate |
| TITLE I | | | | | |
| MILITARY PERSONNEL | | | | | |
| Military Personnel, Army | 41,628,855 | 43,670,542 | 43,060,042 | + 1,431,187 | - 610,500 |
| Military Personnel, Navy | 28,772,118 | 30,426,211 | 30,305,481 | + 1,533,363 | - 120,730 |
| Military Personnel, Marine Corps | 13,231,114 | 13,890,968 | 13,799,038 | + 567,924 | - 91,930 |
| Military Personnel, Air Force | 28,790,440 | 30,526,011 | 30,173,691 | + 1,383,251 | - 352,320 |
| Reserve Personnel, Army | 4,715,608 | 4,955,947 | 4,870,947 | + 155,339 | - 85,000 |
| Reserve Personnel, Navy | 1,988,362 | 2,067,521 | 2,059,521 | + 71,159 | - 8,000 |
| Reserve Personnel, Marine Corps | 764,903 | 788,090 | 787,090 | + 22,187 | - 1,000 |
| Reserve Personnel, Air Force | 1,802,554 | 1,894,286 | 1,871,286 | + 68,732 | - 23,000 |
| National Guard Personnel, Army | 8,264,626 | 8,744,345 | 8,650,645 | + 386,019 | - 93,700 |
| National Guard Personnel, Air Force | 3,408,817 | 3,725,380 | 3,718,780 | + 309,963 | - 6,600 |
| Total, Title I, Military Personnel | 133,367,397 | 140,689,301 | 139,296,521 | + 5,929,124 | - 1,392,780 |
| TITLE II | | | | | |
| OPERATION AND MAINTENANCE | | | | | |
| Operation and Maintenance, Army | 38,816,957 | 42,009,317 | 40,634,715 | + 1,817,758 | - 1,374,602 |
| Operation and Maintenance, Navy | 45,384,353 | 49,003,633 | 47,296,183 | + 1,911,830 | - 1,707,450 |
| Operation and Maintenance, Marine Corps | 6,605,546 | 6,832,510 | 6,372,000 | - 233,546 | - 460,510 |
| Operation and Maintenance, Air Force | 39,544,193 | 42,060,568 | 40,775,374 | + 1,231,181 | - 1,285,194 |
| Operation and Maintenance, Defense-Wide | 34,059,257 | 36,352,625 | 35,662,783 | + 1,603,526 | - 689,842 |
| Operation and Maintenance, Army Reserve | 2,877,104 | 2,916,909 | 2,854,909 | - 22,195 | - 62,000 |
| Operation and Maintenance, Navy Reserve | 1,069,707 | 1,027,006 | 1,018,006 | - 51,701 | - 9,000 |
| Operation and Maintenance, Marine Corps Reserve | 284,837 | 271,570 | 271,570 | - 13,267 | ..... |
| Operation and Maintenance, Air Force Reserve | 3,202,307 | 3,260,234 | 3,247,534 | + 45,227 | - 12,700 |
| Operation and Maintenance, Army National Guard | 7,284,170 | 7,399,295 | 7,261,295 | + 22,875 | - 138,000 |
| Operation and Maintenance, Air National Guard | 6,900,798 | 6,427,622 | 6,433,697 | - 467,101 | + 6,075 |

| | | | | | | |
|--|-------------|-------------|-------------|-------------|-------------|-------------|
| United States Court of Appeals for the Armed Forces | 14,538 | 14,662 | 14,662 | 14,662 | + 124 | ..... |
| Environmental Restoration, Army | 235,809 | 203,449 | 228,449 | 228,449 | - 7,360 | + 25,000 |
| Environmental Restoration, Navy | 365,883 | 329,253 | 329,253 | 329,253 | - 36,630 | ..... |
| Environmental Restoration, Air Force | 352,549 | 296,808 | 365,808 | 365,808 | + 13,259 | + 69,000 |
| Environmental Restoration, Defense-Wide | 19,002 | 8,926 | 8,926 | 8,926 | - 10,076 | ..... |
| Environmental Restoration, Formerly Used Defense Sites | 248,673 | 212,346 | 212,346 | 212,346 | - 36,327 | ..... |
| Overseas Humanitarian, Disaster, and Civic Aid | 129,900 | 107,663 | 107,663 | 107,663 | - 22,237 | ..... |
| Cooperative Threat Reduction Account | 350,000 | 335,240 | 335,240 | 335,240 | - 14,760 | ..... |
| Department of Defense Acquisition Workforce Development Fund | 500,000 | 400,000 | 552,000 | 552,000 | + 52,000 | + 152,000 |
| Total, Title II, Operation and maintenance | 188,245,583 | 199,469,636 | 193,982,413 | 193,982,413 | + 5,736,830 | - 5,487,223 |
| TITLE III PROCUREMENT | | | | | | |
| Aircraft Procurement, Army | 5,535,794 | 3,782,558 | 4,890,658 | 4,890,658 | - 645,136 | + 1,108,100 |
| Missile Procurement, Army | 3,196,910 | 3,355,777 | 3,160,597 | 3,160,597 | - 36,313 | - 195,180 |
| Procurement of Weapons and Tracked Combat Vehicles, Army | 4,391,573 | 4,489,118 | 4,515,290 | 4,515,290 | + 123,717 | + 26,172 |
| Procurement of Ammunition, Army | 2,548,740 | 2,234,761 | 2,283,369 | 2,283,369 | - 265,371 | + 48,608 |
| Other Procurement, Army | 8,298,418 | 7,999,529 | 7,709,078 | 7,709,078 | - 589,340 | - 290,451 |
| Aircraft Procurement, Navy | 19,957,380 | 19,041,799 | 20,083,169 | 20,083,169 | + 125,789 | + 1,041,370 |
| Weapons Procurement, Navy | 3,510,590 | 3,702,393 | 3,780,572 | 3,780,572 | + 269,982 | + 78,179 |
| Procurement of Ammunition, Navy and Marine Corps | 804,335 | 1,006,209 | 970,454 | 970,454 | + 166,119 | - 35,755 |
| Shipbuilding and Conversion, Navy | 23,824,738 | 21,871,437 | 23,992,937 | 23,992,937 | + 168,199 | + 2,121,500 |
| Other Procurement, Navy | 7,941,018 | 9,414,355 | 10,393,562 | 10,393,562 | + 2,452,544 | + 979,207 |
| Procurement, Marine Corps | 1,942,737 | 2,860,410 | 2,800,997 | 2,800,997 | + 858,260 | - 59,413 |
| Aircraft Procurement, Air Force | 18,504,556 | 16,206,937 | 15,772,473 | 15,772,473 | - 2,732,083 | - 434,464 |
| Missile Procurement, Air Force | 2,207,747 | 2,669,454 | 2,614,954 | 2,614,954 | + 407,207 | - 54,500 |
| Space Procurement, Air Force | 3,552,175 | 2,527,542 | 2,224,142 | 2,224,142 | - 1,328,033 | - 303,400 |
| Procurement of Ammunition, Air Force | 1,651,977 | 1,587,304 | 1,564,880 | 1,564,880 | - 87,097 | - 22,424 |
| Other Procurement, Air Force | 20,503,273 | 20,890,164 | 20,839,366 | 20,839,366 | + 336,093 | - 50,798 |
| Procurement, Defense-Wide | 5,429,270 | 6,786,271 | 6,663,821 | 6,663,821 | + 1,234,551 | - 122,450 |
| Defense Production Act Purchases | 67,401 | 38,578 | 38,578 | 38,578 | - 28,823 | ..... |
| Joint Urgent Operational Needs Fund ..... | ..... | 100,025 | ..... | ..... | ..... | - 100,025 |
| National Guard and Reserve Equipment ..... | ..... | ..... | 900,000 | ..... | + 900,000 | + 900,000 |
| Total, Title III, Procurement | 133,868,632 | 130,564,621 | 135,198,897 | 135,198,897 | + 1,330,265 | + 4,634,276 |

COMPARATIVE STATEMENT OF NEW BUDGET (OBLIGATIONAL) AUTHORITY FOR FISCAL YEAR 2018 AND BUDGET ESTIMATES AND AMOUNTS RECOMMENDED IN THE BILL
 FOR FISCAL YEAR 2019—Continued
 (In thousands of dollars)

| Item | 2018 appropriation | Budget estimate | Committee recommendation | Senate Committee recommendation compared with (+ or -) | |
|---|--------------------|-----------------|--------------------------|--|-----------------|
| | | | | 2018 appropriation | Budget estimate |
| TITLE IV | | | | | |
| RESEARCH, DEVELOPMENT, TEST AND EVALUATION | | | | | |
| Research, Development, Test and Evaluation, Army | 10,647,426 | 10,159,379 | 10,812,458 | + 165,032 | + 653,079 |
| Research, Development, Test and Evaluation, Navy | 18,010,754 | 18,481,666 | 18,992,064 | + 981,310 | + 510,398 |
| Research, Development, Test and Evaluation, Air Force | 37,428,078 | 40,178,343 | 40,896,667 | + 3,468,589 | + 718,324 |
| Research, Development, Test and Evaluation, Defense-Wide | 22,016,553 | 22,010,975 | 24,049,621 | + 2,038,646 | + 2,033,068 |
| Operational Test and Evaluation, Defense | 210,900 | 221,009 | 381,009 | + 170,109 | + 160,000 |
| Total, Title IV, Research, Development, Test and Evaluation | 88,308,133 | 91,056,950 | 95,131,819 | + 6,823,686 | + 4,074,869 |
| TITLE V | | | | | |
| REVOLVING AND MANAGEMENT FUNDS | | | | | |
| Defense Working Capital Funds | 1,685,596 | 1,542,115 | 1,641,115 | - 44,481 | + 99,000 |
| Total, Title V, Revolving and Management Funds | 1,685,596 | 1,542,115 | 1,641,115 | - 44,481 | + 99,000 |
| TITLE VI | | | | | |
| OTHER DEPARTMENT OF DEFENSE PROGRAMS | | | | | |
| Defense Health Program Operation and maintenance | 31,521,850 | 32,145,395 | 31,588,995 | + 67,145 | - 556,400 |
| Procurement | 867,002 | 873,160 | 873,160 | + 6,158 | ..... |
| Research, development, test and evaluation | 2,039,315 | 710,637 | 1,673,837 | - 365,478 | + 963,200 |
| Total, Defense Health Program 1 | 34,428,167 | 33,729,192 | 34,135,992 | - 292,175 | + 406,800 |
| Chemical Agents and Munitions Destruction, Defense: | | | | | |
| Operation and maintenance | 104,237 | 105,997 | 105,997 | + 1,760 | ..... |
| Procurement | 18,081 | 1,091 | 1,091 | - 16,990 | ..... |

| | | | | | |
|---|-------------|-------------|-------------|-------------|---------------|
| Research, development, test and evaluation | 839,414 | 886,728 | 886,728 | + 47,314 | ..... |
| Total, Chemical Agents ² | 961,732 | 993,816 | 993,816 | + 32,084 | ..... |
| Drug Interdiction and Counter-Drug Activities, Defense ¹ | 934,814 | 787,525 | 872,525 | - 62,289 | + 85,000 |
| Office of the Inspector General ¹ | 321,887 | 329,273 | 329,273 | + 7,386 | ..... |
| Total, Title VI, Other Department of Defense Programs | 36,646,600 | 35,839,806 | 36,331,606 | - 314,994 | + 491,800 |
| TITLE VII | | | | | |
| RELATED AGENCIES | | | | | |
| Central Intelligence Agency Retirement and Disability System Fund | 514,000 | 514,000 | 514,000 | ..... | ..... |
| Intelligence Community Management Account (ICMA) | 537,600 | 539,124 | 529,624 | - 7,976 | - 9,500 |
| Total, Title VII, Related agencies | 1,051,600 | 1,053,124 | 1,043,624 | - 7,976 | - 9,500 |
| TITLE VIII | | | | | |
| GENERAL PROVISIONS | | | | | |
| Additional transfer authority (Sec.8005) | (4,250,000) | (5,000,000) | (4,000,000) | (- 250,000) | (- 1,000,000) |
| FFRDC (Sec.8023) | - 131,000 | ..... | - 179,000 | - 48,000 | - 179,000 |
| Rescissions (Sec.8039) | - 942,242 | ..... | - 2,400,935 | - 1,458,693 | - 2,400,935 |
| National grants (Sec.8045) | 44,000 | ..... | 20,000 | - 24,000 | + 20,000 |
| Shipbuilding and conversion, Navy Judgment Fund ..... | ..... | 5,000 | ..... | ..... | - 5,000 |
| O&M, Defense-wide transfer authority (Sec.8049) | (30,000) | (30,000) | (30,000) | ..... | ..... |
| John C. Stennis Center for Public Service Development Trust Fund (O&M, Navy transfer authority) (Sec. 8055) | (1,000) | ..... | ..... | (- 1,000) | ..... |
| Fisher House Foundation | 10,000 | ..... | ..... | - 10,000 | ..... |
| Revised economic assumptions | - 4,000 | ..... | ..... | + 4,000 | ..... |
| Fisher House O&M Army Navy Air Force transfer authority (Sec.8086) | (11,000) | (11,000) | (11,000) | ..... | ..... |
| Defense Health O&M transfer authority (Sec.8090) | (115,519) | (113,000) | (113,000) | (- 2,519) | ..... |
| Revised fuel costs | - 110,780 | ..... | ..... | + 110,780 | ..... |
| Operation and Maintenance, Defense-Wide (Department of the Interior Compact Review Agreement) | ..... | 110,800 | ..... | ..... | - 110,800 |
| Public Schools on Military Installations | 235,000 | ..... | ..... | - 235,000 | ..... |
| Total, Title VIII, General Provisions | - 899,022 | 115,800 | - 2,559,935 | - 1,660,913 | - 2,675,735 |

COMPARATIVE STATEMENT OF NEW BUDGET (OBLIGATIONAL) AUTHORITY FOR FISCAL YEAR 2018 AND BUDGET ESTIMATES AND AMOUNTS RECOMMENDED IN THE BILL
FOR FISCAL YEAR 2019—Continued
(In thousands of dollars)

| Item | 2018 appropriation | Budget estimate | Committee recommendation | Senate Committee recommendation compared with (+ or -) | |
|---|--------------------|------------------|--------------------------|--|-----------------|
| | | | | 2018 appropriation | Budget estimate |
| TITLE IX | | | | | |
| OVERSEAS CONTINGENCY OPERATIONS/GLOBAL WAR ON TERRORISM (GWOT) | | | | | |
| Military Personnel | | | | | |
| Military Personnel, Army (GWOT) | 2,683,694 | 2,929,154 | 2,929,154 | | |
| Military Personnel, Navy (GWOT) | 377,857 | 385,461 | 385,461 | + 245,460 | |
| Military Personnel, Marine Corps (GWOT) | 103,979 | 109,232 | 109,232 | + 7,604 | |
| Military Personnel, Air Force (GWOT) | 914,119 | 964,508 | 964,508 | + 5,253 | |
| Reserve Personnel, Army (GWOT) | 24,942 | 37,007 | 37,007 | + 50,389 | |
| Reserve Personnel, Navy (GWOT) | 9,091 | 11,100 | 11,100 | + 12,065 | |
| Reserve Personnel, Marine Corps (GWOT) | 2,328 | 2,380 | 2,380 | + 2,009 | |
| Reserve Personnel, Air Force (GWOT) | 20,569 | 21,076 | 21,076 | + 52 | |
| National Guard Personnel, Army (GWOT) | 184,589 | 195,283 | 195,283 | + 507 | |
| National Guard Personnel, Air Force (GWOT) | 5,004 | 5,460 | 5,460 | + 10,694 | |
| Total, Military Personnel (OCO/GWOT) | 4,326,172 | 4,660,661 | 4,660,661 | + 334,489 | |
| Operation and Maintenance | | | | | |
| Operation & Maintenance, Army (GWOT) | 17,352,994 | 18,210,500 | 19,028,500 | + 1,675,506 | + 818,000 |
| Operation & Maintenance, Navy (GWOT) | 6,449,404 | 4,757,155 | 5,572,155 | - 877,249 | + 815,000 |
| (Coast Guard) (by transfer) (GWOT) | | (165,000) | | | (- 165,000) |
| Operation & Maintenance, Marine Corps (GWOT) | 1,401,536 | 1,121,900 | 1,475,800 | + 74,264 | + 353,900 |
| Operation & Maintenance, Air Force (GWOT) | 10,873,895 | 9,285,789 | 10,055,789 | - 818,106 | + 770,000 |
| Operation & Maintenance, Defense-Wide (GWOT) | 7,575,195 | 8,549,908 | 8,354,905 | + 779,710 | - 195,003 |
| (Coalition support funds) (GWOT) | | | | | |
| Operation & Maintenance, Army Reserve (GWOT) | 24,699 | 41,887 | 41,887 | + 17,188 | |
| Operation & Maintenance, Navy Reserve (GWOT) | 23,980 | 25,637 | 25,637 | + 1,657 | |
| Operation & Maintenance, Marine Corps Reserve (GWOT) | 3,367 | 3,345 | 3,345 | - 22 | |
| Operation & Maintenance, Air Force Reserve (GWOT) | 53,523 | 60,500 | 60,500 | + 6,977 | |

| | | | | | | |
|---|------------|------------|------------|------------|------------|------------|
| Operation & Maintenance, Army National Guard (GWOT) | 108,111 | 110,729 | 110,729 | 110,729 | +2,618 | ..... |
| Operation & Maintenance, Air National Guard (GWOT) | 15,400 | 15,870 | 15,870 | 15,870 | +470 | ..... |
| Subtotal, Operation and Maintenance | 43,882,104 | 42,183,220 | 44,745,117 | 44,745,117 | +863,013 | +2,561,897 |
| Afghanistan Security Forces Fund (GWOT) | 4,666,815 | 5,199,450 | 4,666,815 | 4,666,815 | -532,635 | -532,635 |
| Counter-ISIL Train and Equip Fund (GWOT) | 1,769,000 | 1,400,000 | 994,000 | 994,000 | -775,000 | -406,000 |
| Total, Operation and Maintenance (OCO/GWOT) | 50,317,919 | 48,782,670 | 50,405,932 | 50,405,932 | +88,013 | +1,623,262 |
| Procurement | | | | | | |
| Aircraft Procurement, Army (GWOT) | 420,086 | 363,363 | 363,363 | 363,363 | -56,723 | ..... |
| Missile Procurement, Army (GWOT) | 709,283 | 1,802,351 | 1,740,985 | 1,740,985 | +1,031,702 | -61,366 |
| Procurement of Weapons and Tracked Combat Vehicles, Army (GWOT) | 1,191,139 | 1,107,183 | 1,107,183 | 1,107,183 | -83,956 | ..... |
| Procurement of Ammunition, Army (GWOT) | 191,836 | 309,525 | 299,075 | 299,075 | +107,239 | -10,450 |
| Other Procurement, Army (GWOT) | 405,575 | 1,382,047 | 1,372,487 | 1,372,487 | +966,912 | -9,560 |
| Aircraft Procurement, Navy (GWOT) | 157,300 | 80,119 | 80,119 | 80,119 | -77,181 | ..... |
| Weapons Procurement, Navy (GWOT) | 130,994 | 14,134 | 14,134 | 14,134 | -116,860 | ..... |
| Procurement of Ammunition, Navy and Marine Corps (GWOT) | 233,406 | 246,541 | 223,312 | 223,312 | -10,094 | -23,229 |
| Other Procurement, Navy (GWOT) | 239,359 | 187,173 | 181,173 | 181,173 | -58,186 | -6,000 |
| Procurement, Marine Corps (GWOT) | 64,307 | 58,023 | 58,023 | 58,023 | -6,284 | ..... |
| Aircraft Procurement, Air Force (GWOT) | 503,938 | 1,018,888 | 1,007,888 | 1,007,888 | +503,950 | -11,000 |
| Missile Procurement, Air Force (GWOT) | 481,700 | 493,526 | 493,526 | 493,526 | +11,826 | ..... |
| Space Procurement, Air Force (GWOT) | 2,256 | ..... | ..... | ..... | -2,256 | ..... |
| Procurement of Ammunition, Air Force (GWOT) | 551,509 | 1,421,516 | 1,371,516 | 1,371,516 | +820,007 | -50,000 |
| Other Procurement, Air Force (GWOT) | 3,324,590 | 3,725,944 | 3,705,044 | 3,705,044 | +380,454 | -20,900 |
| Procurement, Defense-Wide (GWOT) | 517,041 | 572,135 | 557,135 | 557,135 | +40,094 | -15,000 |
| National Guard and Reserve Equipment (GWOT) | 1,300,000 | ..... | ..... | ..... | -1,300,000 | ..... |
| Total, Procurement (OCO/GWOT) | 10,424,319 | 12,782,468 | 12,574,963 | 12,574,963 | +2,150,644 | -207,505 |
| Research, Development, Test and Evaluation | | | | | | |
| Research, Development, Test & Evaluation, Army (GWOT) | 235,368 | 325,104 | 325,104 | 325,104 | +89,736 | ..... |
| Research, Development, Test & Evaluation, Navy (GWOT) | 167,565 | 167,812 | 167,812 | 167,812 | +247 | ..... |
| Research, Development, Test & Evaluation, Air Force (GWOT) | 129,608 | 314,271 | 287,971 | 287,971 | +158,363 | -26,300 |
| Research, Development, Test and Evaluation, Defense-Wide (GWOT) | 394,396 | 500,544 | 394,883 | 394,883 | +487 | -105,661 |
| Total, Research, Development, Test and Evaluation (OCO/GWOT) | 926,937 | 1,307,731 | 1,175,770 | 1,175,770 | +248,833 | -131,961 |

COMPARATIVE STATEMENT OF NEW BUDGET (OBLIGATIONAL) AUTHORITY FOR FISCAL YEAR 2018 AND BUDGET ESTIMATES AND AMOUNTS RECOMMENDED IN THE BILL
 FOR FISCAL YEAR 2019—Continued
 (In thousands of dollars)

| Item | 2018 appropriation | Budget estimate | Committee recommendation | Senate Committee recommendation compared with (+ or -) | |
|---|--------------------|-----------------|--------------------------|--|-----------------|
| | | | | 2018 appropriation | Budget estimate |
| Revolving and Management Funds | | | | | |
| Defense Working Capital Funds (GWOT) | 148,956 | 15,190 | 15,190 | -133,766 | |
| Other Department of Defense Programs | | | | | |
| Defense Health Program: | | | | | |
| Operation & Maintenance (GWOT) | 395,805 | 352,068 | 352,068 | -43,737 | |
| Drug Interdiction and Counter-Drug Activities, Defense (GWOT) | 196,300 | 153,100 | 143,100 | -53,200 | -10,000 |
| Office of the Inspector General (GWOT) | 24,692 | 24,692 | 24,692 | | |
| Total, Other Department of Defense Programs (OCO/GWOT) | 616,797 | 529,860 | 519,860 | -96,937 | -10,000 |
| TITLE IX General Provisions | | | | | |
| Additional transfer authority (GWOT) (Sec.9002) | (2,250,000) | (4,500,000) | (2,000,000) | (-250,000) | (-2,500,000) |
| Ukraine Security Assistance Initiative (GWOT) | 200,000 | | | -200,000 | |
| Intelligence, Surveillance, and Reconnaissance (GWOT) | 770,000 | | | -770,000 | |
| Rescissions (GWOT) (Sec. 9013) | -2,565,100 | | -1,438,400 | +1,126,700 | -1,438,400 |
| Total, General Provisions | -1,595,100 | | -1,438,400 | +156,700 | -1,438,400 |
| Total, Title IX (OCO/GWOT) | 65,166,000 | 68,078,580 | 67,913,976 | +2,747,976 | -164,604 |
| OTHER APPROPRIATIONS | | | | | |
| Operation and Maintenance | | | | | |
| Operation and Maintenance, Navy (emergency) | 673,500 | | | -673,500 | |
| Operation and Maintenance, Air Force (emergency) | 18,750 | | | -18,750 | |
| Operation and Maintenance, Defense-Wide (emergency) | 23,735 | | | -23,735 | |

| | | | | | | |
|---|-----------|--|--|--|------------|--|
| Total, Title II, Operation and maintenance (emergency) | 715,985 | | | | -715,985 | |
| Procurement | | | | | | |
| Missile Procurement, Army (emergency) | 884,000 | | | | -884,000 | |
| Missile Procurement, Air Force (emergency) | 12,000 | | | | -12,000 | |
| Other Procurement, Air Force (emergency) | 288,055 | | | | -288,055 | |
| Procurement, Defense-Wide (emergency) | 1,239,140 | | | | -1,239,140 | |
| Total, Title III, Procurement (emergency) | 2,423,195 | | | | -2,423,195 | |
| Research, Development, Test and Evaluation | | | | | | |
| Research, Development, Test and Evaluation, Army (emergency) | 20,700 | | | | -20,700 | |
| Research, Development, Test and Evaluation, Navy (emergency) | 60,000 | | | | -60,000 | |
| Research, Development, Test and Evaluation, Air Force (emergency) | 255,744 | | | | -255,744 | |
| Research, Development, Test and Evaluation, Defense-Wide (emergency) | 1,010,220 | | | | -1,010,220 | |
| Total, Title IV, Research, Development, Test and Evaluation (emergency) | 1,346,664 | | | | -1,346,664 | |
| FURTHER ADDITIONAL SUPPLEMENTAL APPROPRIATIONS FOR DISASTER RELIEF REQUIREMENTS ACT, 2018 | | | | | | |
| DEPARTMENT OF DEFENSE--MILITARY PROGRAMS | | | | | | |
| OPERATION AND MAINTENANCE | | | | | | |
| Operation and Maintenance, Army (emergency) | 20,110 | | | | -20,110 | |
| Operation and Maintenance, Navy (emergency) | 267,796 | | | | -267,796 | |
| Operation and Maintenance, Marine Corps (emergency) | 17,920 | | | | -17,920 | |
| Operation and Maintenance, Air Force (emergency) | 20,916 | | | | -20,916 | |
| Operation and Maintenance, Defense-Wide (emergency) | 2,650 | | | | -2,650 | |
| Operation and Maintenance, Army Reserve (emergency) | 12,500 | | | | -12,500 | |
| Operation and Maintenance, Navy Reserve (emergency) | 2,922 | | | | -2,922 | |
| Operation and Maintenance, Air Force Reserve (emergency) | 5,770 | | | | -5,770 | |
| Operation and Maintenance, Army National Guard (emergency) | 55,471 | | | | -55,471 | |
| Total, Operation and Maintenance (emergency) | 406,055 | | | | -406,055 | |
| PROCUREMENT | | | | | | |
| Other Procurement, Navy (emergency) | 18,000 | | | | -18,000 | |

COMPARATIVE STATEMENT OF NEW BUDGET (OBLIGATIONAL) AUTHORITY FOR FISCAL YEAR 2018 AND BUDGET ESTIMATES AND AMOUNTS RECOMMENDED IN THE BILL
FOR FISCAL YEAR 2019—Continued
[In thousands of dollars]

| Item | 2018 appropriation | Budget estimate | Committee recommendation | Senate Committee recommendation compared with (+ or -) | |
|---|--------------------|-----------------|--------------------------|--|-----------------|
| | | | | 2018 appropriation | Budget estimate |
| REVOLVING AND MANAGEMENT FUNDS | | | | | |
| Defense Working Capital Funds (emergency) | 9,486 | ..... | ..... | -9,486 | ..... |
| OTHER DEPARTMENT OF DEFENSE PROGRAMS | | | | | |
| Defense Health Program: Operation & Maintenance (emergency) | 704 | ..... | ..... | -704 | ..... |
| Total, Fiscal Year 2018 Department of Defense (emergency) (P.L. 115-123, DivB, Subdivision1, Title III) | 434,245 | ..... | ..... | -434,245 | ..... |
| Total, Other Appropriations | 4,920,089 | ..... | ..... | -4,920,089 | ..... |
| Grand Total Bill | 652,360,608 | 668,409,933 | 667,980,036 | +15,619,428 | -429,897 |
| Appropriations | (583,216,761) | (600,331,353) | (602,466,995) | (+19,250,234) | (+2,135,642) |
| Emergency appropriations | (4,920,089) | ..... | ..... | (-4,920,089) | ..... |
| Global War on Terrorism (GWOT) | (67,731,100) | (68,078,580) | (69,352,376) | (+1,621,276) | (+1,273,796) |
| Rescissions | (-942,242) | ..... | (-2,400,935) | (-1,458,693) | (-2,400,935) |
| Rescissions (GWOT) | (-2,565,100) | ..... | (-1,438,400) | (+1,126,700) | (-1,438,400) |

¹ Excludes GWOT New and Advance appropriations. Includes Prior GWOT Outlays.

² Includes GWOT and emergency (except permanent appropriations).

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