## [COMMITTEE PRINT]

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## Calendar No. 000

115th Congress | 2d Session

SENATE

REPORT 115-000

## DEPARTMENT OF DEFENSE APPROPRIATIONS BILL, 2019

JUNE 00, 2018.—Ordered to be printed

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

## REPORT

[To accompany S. 0000]

The Committee on Appropriations reports the bill (S. 0000) 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
Amount of 2018 appropriations
Amount of 2019 budget estimate
Bill as recommended to Senate compared to—
2018 appropriations
2019 budget estimate

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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

[In thousands of dollars]

	Fiscal year 2018 enacted	Fiscal year 2019 estimate	Committee recommendation
Title VI—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 ta-

bles 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 para-graphs 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 Com-

mittee 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 Directed 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 tech-

nically 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 demonstra-

tion 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, in-

cluding 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 ac-

quisition 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 sys-

 ${\sf tems}.$ 

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 deploy-

ment 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 rec-

ommends \$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 supported the Department's 115–141) request \$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 Execu-

tive 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
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

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RECOMMENDED END STRENGTH—Continued

	2018 authorization	2019 budget estimate	Committee recommendation	Change from budget estimate
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	- 50
Subtotal	816,900	817,700	816,900	- 80
Total	2,139,400	2,155,800	2,146,361	- 9,43

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	<b>- 440</b>
Air National Guard	16,260	19,861	19,450	- 411
Total	78,626	83,062	81,816	- 1 <b>,24</b> 6

## 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 Committee report.  $_{
m in}$ the Below Threshold Reprogrammings may not be used to either restore or reduce funding from congressional special interest items as identified on the DĎ 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.

## MILITARY PERSONNEL, ARMY

Appropriations, 2018	\$41,628,855,000
Budget estimate, 2019	40,010,042,000
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	7,224,373	7,224,373	
5	BASIC PAY	2,192,145	2.192.145	
10	RETIRED PAY ACCRUAL	132,476	132,476	
11	THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS		2,165,218	
25	BASIC ALLOWANCE FOR HOUSING	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	
33	SOCIAL SECONTT TAX			
	TOTAL, BUDGET ACTIVITY 1	13,350,696	13,350,696	
	ACTIVITY 2: PAY AND ALLOWANCES OF ENLISTED PERSONNEL	12 025 005	13,825,095	
60	BASIC PAY	13,825,095	4,197,573	
65	RETIRED PAY ACCRUAL	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	
110	ACTIVITY 4: SUBSISTENCE OF ENLISTED PERSONNEL			
	BASIC ALLOWANCE FOR SUBSISTENCE	1,264,097	1,264,097	
115	BASIC ALLOWANCE FOR SUBSISTENCE	636,029	636,029	
120	SUBSISTENCE-IN-KIND	83		
121	FAMILY SUBSISTENCE SUPPLEMENTAL ALLOWANCE	63	- 00	
	TOTAL, BUDGET ACTIVITY 4	1,900,209	1,900,209	
	ACTIVITY 5: PERMANENT CHANGE OF STATION			
125		173,692		
130		158,716		
135	ROTATIONAL TRAVEL			

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### [in thousands of dollars]

Line	ltem	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	ltem	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:

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## [in thousands of dollars]

ine	Hem	2019 budget estimate	Committee recommendation	Change from budget estimat
	MILITARY PERSONNEL, NAVY			
	ACTIVITY 1: PAY AND ALLOWANCES OF OFFICERS			
5	BASIC PAY	4,382,346	. 4 363 346	
	RETIRED PAY ACCRUAL		4,382,346	
10	THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS	1,331,184	1,331,184	
11		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	
00	ACTIVITY 2: PAY AND ALLOWANCES OF ENLISTED PERSONNEL	0.047.000	0.047.000	
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	***************************************
00	SEPARATION PAY	117,648	117,648	
05	SOCIAL SECURITY TAX	738,001	738,001	•••••
	TOTAL, BUDGET ACTIVITY 2	19,777,426	19,777,426	
10	ACTIVITY 3: PAY AND ALLOWANCES OF MIDSHIPMEN MIDSHIPMEN	83,875	83,875	
10	ACTIVITY 4: SUBSISTENCE OF ENLISTED PERSONNEL	00,075	00,070	***************************************
15	BASIC ALLOWANCE FOR SUBSISTENCE	821,434	821,434	
20	SUBSISTENCE-IN-KIND	418,478	418,478	
21	FAMILY SUBSISTENCE SUPPLEMENTAL ALLOWANCE	5	5	
	TOTAL, BUDGET ACTIVITY 4	1,239,917	1,239,917	
	ACTIVITY 5: PERMANENT CHANGE OF STATION			
25	ACCESSION TRAVEL	98,373	98,373	
30	TRAINING TRAVEL	89,865	89,865	
35	OPERATIONAL TRAVEL	227,416	227,416	
40	ROTATIONAL TRAVEL	356,813	356,813	
45	SEPARATION TRAVEL	109,210	109,210	
50	TRAVEL OF ORGANIZED UNITS	30,763	30,763	
55	NON-TEMPORARY STORAGE	13,156	13,156	
60	TEMPORARY LODGING EXPENSE	15,753	15,753	
	TOTAL, BUDGET ACTIVITY 5	941,349	941,349	
	ACTIVITY 6: OTHER MILITARY PERSONNEL COSTS	_		
70	APPREHENSION OF MILITARY DESERTERS	35	35	
75	INTEREST ON UNIFORMED SERVICES SAVINGS	1,220	1,220	
80	DEATH GRATUITIES	21,300	21,300	
85	UNEMPLOYMENT BENEFITS	58,148	58,148	
95	EDUCATION BENEFITS	12,065	12,065	
00	ADOPTION EXPENSES	173	173	
10	TRANSPORTATION SUBSIDY	4,162	4,162	
15	PARTIAL DISLOCATION ALLOWANCE	34	.34	
17	RESERVE OFFICERS TRAINING CORPS (ROTC)	21,032	21,032	
18	JUNIOR ROTC	14,961	15,231	+2
	TOTAL, BUDGET ACTIVITY 6	133,130	133,400	+2
	LESS REIMBURSABLES	-366,631	- 366,631	

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### [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	ltem	2019 budget estimate	Committee recommendation	Change from budget estimate
218	Junior ROTC	14,961	15,231	+ 270 + 270
UNDIST	Program increase		- 26,000 - 95,000	- 26,000 - 95.000
UNDIST	Improving funds management: Revised budget estimate		- 33,000	33,000

## 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	ltem	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	l

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### [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	
105	ACTIVITY 5: PERMANENT CHANGE OF STATION			
125	ACCESSION TRAVEL	48,992	48,992	
130 135	TRAINING TRAVEL	16,506	16,506	
140	OPERATIONAL TRAVEL	166,904	166,904	
145	ROTATIONAL TRAVELSEPARATION TRAVEL	110,869	110,869	
150	TRAVEL OF ORGANIZED UNITS	87,538	87,538	
155	NON-TEMPORARY STORAGE	890	890	***************************************
160	TEMPORARY LODGING EXPENSE	8,730	8,730	
165	OTHER	5,743 2,140	5,743 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	
195 200	EDUCATION BENEFITS	4,661	4,661	***************************************
210	ADOPTION EXPENSES	86	86	
215	TRANSPORTATION SUBSIDY	1,448	1,448	
218	PARTIAL DISLOCATION ALLOWANCE	103	103	
210	JUNIOR ROTC	3,790	3,860	+70
	TOTAL, BUDGET ACTIVITY 6	60,557	60,627	+70
	LESS REIMBURSABLES	- 28.956	-28.956	
- N	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: $\ensuremath{\mathsf{Committee}}$

## [In thousands of dollars]

Line	Item	2019 budget estimate	Committee recommendation	Change from budget estimate
218	Junior ROTC	3,790	3,860	+ 70 + 70
UNDIST UNDIST	Improving funds management: Rate adjustments		- 17,000 - 75,000	- 17,000 - 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	ltem	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	5,071,405	3,071,400	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
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	410171400000000000000000000000000000000
	TOTAL, BUDGET ACTIVITY 2	18,552,069	18,552,069	
110	ACTIVITY 3: PAY AND ALLOWANCES OF CADETS 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	140,005	
		1 107 404	1 107 404	
	TOTAL, BUDGET ACTIVITY 4	1,187,424	1,187,424	
125	ACCISSION TRAVEL	102 101	102 161	
125	ACCESSION TRAVEL	102,161 70,306	102,161 70,306	
130		279,456	279.456	
135 140	OPERATIONAL TRAVEL	516,029	516.029	
140	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	25,450	55	

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### [In thousands of dollars]

Line	ltem	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	<b>- 478,724</b>	
	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]

ltem	2019 budget estimate	Committee recommendation	Change from budget estimate
Junior ROTC	18,825	19,205	+ 380 + 380
Improving funds management: Rate adjustments		- 26,000	- 26,000
Improving funds management: Revised budget estimate		- 350,000	- 350,000
		22 200	+ 23 300
	Junior ROTC	Junior ROTC  Program increase  Improving funds management: Rate adjustments Improving funds management: Revised budget estimate  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	Junior ROTC Program increase Improving funds management: Rate adjustments Improving funds management: Revised budget estimate 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

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## RESERVE PERSONNEL, ARMY

Appropriations, 2018	P4 715 000 000
Budget estimate 2010	\$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:

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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	
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	91,300,002,000
Committee recommendation	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	ltem	2019 budget estimate	Committee recommendation	Change from budget estimate
	RESERVE PERSONNEL, NAVY			
10	ACTIVITY 1: RESERVE COMPONENT TRAINING AND SUPPORT PAY GROUP A TRAINING (15 DAYS & DRILLS 24/48)	698,480	698,480	
20	PAY GROUP B TRAINING (BACKFILL FOR ACTIVE DUTY) PAY GROUP F TRAINING (RECRUITS)	8,364 62,628	8,364 62,628	
30 60	MOBILIZATION TRAINING	11,535	11,535 55,012	
70 80	SCHOOL TRAINING	55,012 109,433	109,433	
90	ADMINISTRATION AND SUPPORT	1,052,934 14,011	1,052,934 14.011	
94 100	THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS	78	78	
120	HEALTH PROFESSION SCHOLARSHIP	55,046	55,046	
	TOTAL, BUDGET ACTIVITY 1	2,067,521	2,067,521	
	UNDISTRIBUTED ADJUSTMENT		-8,000	-8,00
	TOTAL, RESERVE PERSONNEL, NAVY	2,067,521	2,059,521	-8,00

## 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 budgetestimate		-7,000	-7,000

## RESERVE PERSONNEL, MARINE CORPS

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

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	ltem	2019 budget estimate	Committee recommendation	Change from budget estimate
	RESERVE PERSONNEL, MARINE CORPS			
10 20	ACTIVITY 1: RESERVE COMPONENT TRAINING AND SUPPORT PAY GROUP A TRAINING (15 DAYS & DRILLS 24/48)	284,427 44,091	284,427 44,091	

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### [In thousands of dollars]

Line	Item	2019 budget estimate	Committee recommendation	Change from budget estimate
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	-1,00
	TOTAL, RESERVE PERSONNEL, MARINE CORPS	788,090	787,090	- 1,000

## COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:  $\ensuremath{\mathsf{Committee}}$ 

### [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:

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Line	ltem	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	Hem	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	<u></u>
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	ltem	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	ltem	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	ltem	2019 budget estimate	Committee recommendation	Change from budget estimate
080	Special Training Program increase: State Partnership Program	167,411	171,011	+ 3,600 + 3,600
UNDIST	Improving funds management: Rate adjustments		-2,000	-2,000
UNDIST UNDIST	Improving funds management: Revised budget estimate Program increase: Advanced trauma training program		- 10,000 1,800	- 10,000 + 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:			4 874 885
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, <b>70</b> 0
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
Dehartilient of perense vedaration Mornorce pessionnent Lang	100,000	002,000	
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

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 in-

creases 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 budg-

et 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 subactivity 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 vol-

untary 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 nor-

mal 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 pro-

gram 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 Sum-

mary 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 Island 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	Committee	Change from
-	2277	estimate	recommendation	budget estima
	OPERATION AND MAINTENANCE, ARMY			
	BUDGET ACTIVITY 1: OPERATING FORCES			
10	LAND FORCES			
10 20		2,076,360	1,761,360	- 315,00
30		107,946	107,946	
40		732,485	732,485	
50	THEATER LEVEL ASSETS	1,169,508	1,079,508	90,00
60	AVIATION ASSETS	1,180,460 1,467,500	1,180,460	
	LAND FORCES READINESS	1,407,300	1,417,500	- 50,00
70	FORCE READINESS OPERATIONS SUPPORT	4.005.011		
80	LAND FORCES SYSTEMS READINESS	4,285,211	3,895,211	- 390,00
90	LAND FORCES DEPOT MAINTENANCE	482,201 1,536,851	482,201	200.00
	LAND FORCES READINESS SUPPORT	1,550,651	1,236,851	- 300,00
100	BASE OPERATIONS SUPPORT	9 974 900	0.040.000	
110	FACILITIES SUSTAINMENT, RESTORATION, & MODERNIZATION	8,274,299 3,516,859	8,242,299	- 32,00
120	MANAGEMENT AND OPERATIONAL HEADQUARTERS	438.733	3,523,609 438,733	+6,75
	COMBATANT COMMAND SUPPORT	430,733	430,733	
180	US AFRICA COMMAND	231,518	221 510	
190	US EUROPEAN COMMAND	150,268	231,518 141,268	0.00
200	US SOUTHERN COMMAND	195,964	213,964	- 9,00 + 18.00
210	US FORCES KOREA	59,625	59.625	T 10,00
	TOTAL, BUDGET ACTIVITY 1	25 005 700	04.744.500	
	BUDGET ACTIVITY 2: MOBILIZATION	25,905,788	24,744,538	- 1,161,250
			- 1	
220	MOBILITY OPERATIONS			
230	STRATEGIC MOBILITY	370,941	354,941	-16,000
240	ARMY PREPOSITIONED STOCKS	573,560	562,560	-11,000
.40	INDUSTRIAL FREFAREDNESS	7,678	7,678	
	TOTAL, BUDGET ACTIVITY 2	952,179	925,179	- 27,000
- 1	BUDGET ACTIVITY 3: TRAINING AND RECRUITING			,
	ACCESSION TRAINING			
50	OFFICER ACQUISITION	135,832	135,832	
60	RECRUIT TRAINING	54,819		
70	ONE STATION UNIT TRAINING	69,599	00 500	
80	SENIOR RESERVE OFFICERS TRAINING CORPS	518,998	518,998	
	BASIC SKILL AND ADVANCED TRAINING			
90	SPECIALIZED SKILL TRAINING	1,020,073	1,007,073	-13,000
00	FLIGHT TRAINING	1,082,190	1,082,190	
20	PROFESSIONAL DEVELOPMENT EDUCATION	220,399		
- 10	TRAINING SUPPORT	611,482	611,482	
30	RECRUITING AND OTHER TRAINING AND EDUCATION RECRUITING AND ADVERTISING			
10	EXAMINING	698,962	648,962	-50,000
	OFF-DUTY AND VOLUNTARY EDUCATION	162,049		
0	CIVILIAN EDUCATION AND TRAINING	215,622 176,914	4=0.04.	
0 .	JUNIOR RESERVE OFFICERS TRAINING CORPS	174,430	176,914   180,570	+6,140
		, 100	100,070	1.0,140

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[In thousands of dollars]

Line	ltem	2019 budget estimate	Committee recommendation	Change from budget estimate
	BUDGET ACTIVITY 4: ADMIN & SERVICEWIDE ACTIVITIES			
390 400 410 420	LOGISTICS OPERATIONS SERVICEWIDE TRANSPORTATION CENTRAL SUPPLY ACTIVITIES LOGISTICS SUPPORT ACTIVITIES AMMUNITION MANAGEMENT	588,047 931,462 696,114 461,637	588,047 921,462 696,114 461,637	-10,000
430 440 450 460 470 480 490 500	SERVICEWIDE SUPPORT ADMINISTRATION SERVICEWIDE COMMUNICATIONS MANPOWER MANAGEMENT OTHER PERSONNEL SUPPORT OTHER SERVICE SUPPORT ARMY CLAIMS ACTIVITIES REAL ESTATE MANAGEMENT BASE OPERATIONS SUPPORT	447,564 2,069,127 261,021 379,541 1,699,767 192,686 240,917 291,569	447,564 2,069,127 261,021 349,541 1,687,767 192,686 240,917 291,569	- 30,000 - 12,000
510 520	SUPPORT OF OTHER NATIONS SUPPORT OF NATO OPERATIONS MISC. SUPPORT OF OTHER NATIONS	442,656 48,251	442,656 48,251	
	OTHER PROGRAMS OTHER PROGRAMS	1,259,622	1,281,130	+ 21,508
	TOTAL, BUDGET ACTIVITY 4	10,009,981	9,979,489 100,000 1,000	- 30,492 - 100,000 + 1,000
	TOTAL, OPERATION AND MAINTENANCE, ARMY	42,009,317	40,634,715	- 1,374,602

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Line	ltem	2019 budget estimate	Committee recommendation	Change from hudget estimate
111	Maneuver Units	2,076,360	1,761,360	-315,00
***	Maintain program affordability: Unjustified growth Transfer: From Title II to Title IX for OCO Operations			- 15,00 - 300,00
114	Theater Level Assets	1,169,508	1,079,508	- 90,00
114	Maintain program affordability: Unjustified growth			-90,00
116	Aviation Assets	1,467,500	1,417,500	- 50,00
	Maintain program affordability: Unjustified growth			- 50,00
121	Force Readiness Operations Support	4,285,211	3,895,211	- 390,00
	Program increase: Advanced combat helmets			+ 10,00 - 400,00
	Transfer: From Title II to Title IX for OCO Operations	1.536.851	1,236,851	- 400,00 - 300.00
123	Land Forces Depot Maintenance	' '		- 300,00 - 300,00
101	Transfer: From Title II to Title IX for OCO Operations	8.274.299		- 32,00
131	Base Operations Support Improving funds management: Remove one—time fiscal	0,214,233	0,212,200	, , , ,
	year 2018 increase		***************************************	50,00
	Program increase: PFOS/PFOA treatment, sampling, site			
	investigations			+ 17,00
	Program increase: Prevention of child abuse and train-			
	ing on safe childcare practices			+1,00
132	Facilities Sustainment, Restoration & Modernization	3,516,859	3,523,609	+ 6,75
	Program increase: Advanced manufacturing			+4,2! +2,50
	Program increase: Energy resilience		141,268	-9,00
142	US European Command	150,200	141,200	- 5,01
	Improving funds management: Remove one—time fiscal year 2018 increase			- 9,00

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[In thousands of dollars]

Line	Item	2019 budget estimate	Committee recommendation	Change from budget estimate
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 unac-			
	counted 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 unac-			
	counted for	,,,,		-12,000
INDIST	Maintain program affordability: Overestimation of Civilian			
	FTE		-100,000	-100,000
NDIST	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	ltem	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	-600,00
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	-12,00
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	-610,00
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	-6,30
150	SPACE SYSTEMS AND SURVEILLANCE	215.255	215,255	
160	WARFARE TACTICS	632,446	617,446	15.00
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	-20,00
	BASE SUPPORT			
300	ENTERPRISE INFORMATION TECHNOLOGY	921,936	921,936	
310	FACILITIES SUSTAINMENT, RESTORATION & MODERNIZATION	2,040,389	2,390,389	+ 350,00
320	BASE OPERATING SUPPORT	4,414,753	4,418,253	+ 3,50
	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		

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[In thousands of dollars]

	In thousands of dollar	ars]		
Line	ltem	2019 budget estimate	Committee recommendation	Change from budget estimate
360	ACTIVATIONS/INACTIVATIONS SHIP ACTIVATIONS/INACTIVATIONS MOBILIZATION PREPAREDNESS	161,150	161,150	
370 390	FLEET HOSPITAL PROGRAM	120,338 24,097	120,338 24,097	
	TOTAL, BUDGET ACTIVITY 2BUDGET ACTIVITY 3: TRAINING AND RECRUITING	1,165,532	1,165,532	
400	ACCESSION TRAINING			
400 410 420	OFFICER ACQUISITION	9,637	145,481 9,637	
430	BASIC SKILLS AND ADVANCED TRAINING SPECIALIZED SKILL TRAINING	1 10,007	151,187	+1,500
450 460	PROFESSIONAL DEVELOPMENT EDUCATION TRAINING SUPPORT	194 426	793,557 184,436 223.159	— 86,000 
470	RECRUITING, AND OTHER TRAINING AND EDUCATION RECRUITING AND ADVERTISING	181.086	181,086	
480 490 500	OFF-DUTY AND VOLUNTARY EDUCATION	96,006	96,006 72,083	
500	JUNIOR ROTC		55,106	+ 950
	TOTAL, BUDGET ACTIVITY 3  BUDGET ACTIVITY 4: ADMIN & SERVICEWIDE ACTIVITIES	1,995,288	1,911,738	-83,550
F10	SERVICEWIDE SUPPORT			
510 530 540	Administration Civilian Manpower and Personnel Management Military Manpower and Personnel Management	1,089,964 164,074 418.350	1,069,964 164,074	-20,000
580	LOGISTICS OPERATIONS AND TECHNICAL SUPPORT SERVICEWIDE TRANSPORTATION		418,350	***************************************
600 610	PLANNING, ENGINEERING AND PROGRAM SUPPORT	167,106 333,556 663,690	167,106 336,556 663,690	+3,000
650	SECURITY PROGRAMS NAVAL INVESTIGATIVE SERVICE	705.087	705.007	
	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 PRICING ADJUSTMENT PL115-68 IMPLEMENTATION		1,400 75,000	+ 1,400 - 75,000
	TOTAL, OPERATION AND MAINTENANCE, NAVY	49,003,633	1,000	+ 1,000
	, se section and manufacturing, MAY (	43,003,033	47,296,183	- 1,707,450

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Line	ftem	2019 budget estimate	Committee recommendation	Change from budget estimate
1A1A	Mission and Other Flight Operations	5,372,399	4,772,399	- 600,000
	Transfer From Title II to Title IV for 000 0			-100,000
1 5 484	Transfer: From Title II to Title IX for OCO Operations			-500,000
1A4N	Air Systems Support	682,379	670,379	-12.000

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(in thousands of dollars)

Line	Item	2019 budget estimate	Committee recommendation	Change from budget estimate
	Maintain program affordability: Unjustified growth			-12,000
1010	Mission and Other Ship Operations	4.439.566	3,819,566	-620,000
181B	Maintain program affordability: Unjustified growth	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		-120,000
	Transfer: From Title II to Title IX for OCO Operations			-500,000
1010	Ship Depot Maintenance	8,751,526	8.141.526	-610,000
1B4B	Transfer: To Other Procurement, Navy for the USS BOISE, USS NEW YORK and USS GUNSTON HALL	0,701,010	3,212,223	
- 1	availabilities			-610,000
1C1C	Combat Communications and Electronic WarfareImproving funds management: Remove one-time fis-	1,349,593	1,343,293	-6,300
- 1	cal year 2018 increases			- 25,000
	Program increase: SOUTHCOM ISR requirements		.,.,	+18,700
1040	Warfare Tactics	632,446	617,446	-15,000
1C4C	Maintain program affordability: Unjustified growth			-15,000
1070	Maintain piggiani anordabinty: Onjustined growth	494,101	474,101	-20.000
1D7D	Other Weapon Systems Support	454,101		-20.000
	Classified program adjustment	2.040.389	2,390,389	+ 350,000
BSM1	Sustainment, Restoration and Modernization	2,040,000		+ 350,000
	Program increase	4,414,753	4,418,253	+ 3,500
BSS1	Base Operating Support	4,414,730	4,410,200	- 27.000
	Maintain program affordability: Unjustified growth	***************************************		21,000
- 1	Program increase: Aqueous foam disposal and re-			+ 28,000
	placement		***************************************	1 20,000
	Program increase: Amphibious readiness group plan-			+ 1,500
	ning and design	414444444444444444444444444444444444444		7 1,500
	Program increase: Prevention of child abuse and			+1.000
	training on safe childcare practices		151 107	+ 1,500
3A3J	Reserve Officers Training Corps	149,687	151,187	
	Program increase: Navy ROTC			+ 1,500
3B1K	Specialized Skill Training	879,557	793,557	- 86,00
	Maintain program affordability: Ready, Relevant			00.000
	Learning funding ahead of need			- 86,000
3C5L	Junior ROTC	54,156	55,106	+ 950
0002	Program increase			+ 95
4A1M	Administration	1,089,964	1,069,964	-20,00
4/11111	Improving funds management: Program decrease un-		1	
	accounted for			- 20,00
4B2N	Planning, Engineering and Program Support	333,556	336,556	+3,00
4DZIV	Program increase: Alternative energy			+3,00
999	Classified Programs	574,994	570,494	-4,50
999	Classified program adjustment			4,50
UNDICT	Program increase: Public Law 115-68 implementation at			
UNDIST			1,000	+1,00
	Combatant Commands			1
UNDIST	Program increase: Joint travel regulation-long term tem-		1,400	+ 1.40
	porary duty waivers	,	1,400	1 1,40
UNDIST	Improving funds management: Navy supply manage- ment pricing adjustment to reflect correct rates		- 75,000	- 75,00

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 expend training expertunities

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.

tenance, 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 meth-

ods 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.

## OPERATION AND MAINTENANCE, MARINE CORPS

	\$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	ltem	2019 budget estimate	Committee recommendation	Change from budget estimate
	OPERATION AND MAINTENANCE, MARINE CORPS			
	BUDGET ACTIVITY 1: OPERATING FORCES			
10 20 30	EXPEDITIONARY FORCES  OPERATIONAL FORCES  FIELD LOGISTICS  DEPOT MAINTENANCE	873,320 1,094,187 314,182	637,320 1,094,187 314,182	- 236,000
40	USMC PREPOSITIONING MARITIME PREPOSITIONING	98,136	98,136	

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### [In thousands of dollars]

Line	ltem	2019 budget estimate	Committee recommendation	Change from budget estimate
50	COMBAT OPERATIONS/SUPPORT CYBERSPACE ACTIVITIES	183,546	183,546	
60 70	BASE SUPPORT FACILITIES SUSTAINMENT, RESTORATION & MODERNIZATION BASE OPERATING SUPPORT	832,636 2,151,390	832,636 1,963,490	- 187,900
	TOTAL, BUDGET ACTIVITY 1	5,547,397	5,123,497	- 423.900
	BUDGET ACTIVITY 3: TRAINING AND RECRUITING		-,-=-,	120,000
80 90	ACCESSION TRAINING RECRUIT TRAINING OFFICER ACQUISITION	16,453 1,144	16,453 1,144	
100 110 120	BASIC SKILLS AND ADVANCED TRAINING SPECIALIZED SKILLS TRAINING PROFESSIONAL DEVELOPMENT EDUCATION TRAINING SUPPORT	106,360 46,096 389,751	106,360 46,096 389,751	
130 140 150	RECRUITING AND OTHER TRAINING EDUCATION RECRUITING AND ADVERTISING OFF-DUTY AND VOLUNTARY EDUCATION JUNIOR ROTC	201,662 32,461 24,217	201,662 32,461 24,607	+ 390
	TOTAL, BUDGET ACTIVITY 3	818,144	818,534	+ 390
	BUDGET ACTIVITY 4: ADMIN & SERVICEWIDE ACTIVITIES			
160 170	SERVICEWIDE SUPPORT SERVICEWIDE TRANSPORTATION	29,735 386,375	29,735 366,375	
	SECURITY PROGRAMS SECURITY PROGRAMS	50,859	50,859	***************************************
	TOTAL, BUDGET ACTIVITY 4	466,969	446,969 — 17,000	- 20,000 - 17,000
	TOTAL, OPERATION AND MAINTENANCE, MARINE CORPS	6,832,510	6,372,000	<b>-460,510</b>

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Line	ltem	2019 budget estimate	Committee recommendation	Change from budget estimate
lala	Operational Forces Improving funds management: Remove one-time fiscal year 2018 increase		637,320	- 236,000
	Maintain program affordability: Unjustified growth Program increase: Marine hearing enhancement and protection		***************************************	- 25,000 - 16,000
BSS1	Transfer: From Title II to Title IX for OCO Operations  Base Operating Support	2,151,390	1,963,490	+ 5,000 - 200,000 - 187,900
	counted for	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		- 35,000
3C3F	Transfer: From Title II to Title IX for OCO Operations Junior ROTC Program increase	24,217	24,607	+1,000 -153,900 +390
4A4G	Administration	386,375	366,375	+ 390 - 20,000
NDIST	Maintain program affordability: Unjustified growth Improving funds management: Overestimation of civilian FTE		- 17,000	- 20,000 - 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 2019	
Appropriations, 2018	\$39 544 193 000
Dauger estimate, 2013	40.000 500.000
Committee recommendation	42,060,568,000
committee recommendation	40 775 974 000

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:

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# [in thousands of dollars]

Line	ltem	2019 budget estimate	Committee recommendation	Change from budget estimate
-	OPERATION AND MAINTENANCE, AIR FORCE			
- 1	BUDGET ACTIVITY 1: OPERATING FORCES			
- 1	AIR OPERATIONS			
10	PRIMARY COMBAT FORCES	758,178	758,178 1,227,027	-282,000
20	COMBAT ENHANCEMENT FORCES	1,509,027 1,323,330	1,280,730	- 42,600
30	AIR OPERATIONS TRAINING	3,511,830	2,994,830	-517,000
40 50	FACULTIES SUSTAINMENT RESTORATION & MODERNIZATION	2,892,705	2,917,705	+ 25,000
60	CONTRACTOR LOGISTICS SUPPORT AND SYSTEM SUPPORT	7,613,084 4,345,208	7,848,084 3,685,208	+ 235,000 660,000
70	FLYING HOUR PROGRAM BASE OPERATING SUPPORT	5,989,215	6,016,115	+ 26,900
80		3,222,223		
90	COMBAT RELATED OPERATIONS GLOBAL C31 AND EARLY WARNING	928,023	928,023	
100	OTHER COMBAT OPERATIONS SUPPORT PROGRAMS	1,080,956	1,080,956 813,032	-66,000
110	CYBERSPACE ACTIVITIES	879,032	613,032	00,000
	Space operations Launch facilities	183,777	183,777	
130 140	SPACE CONTROL SYSTEMS	404,072	404,072	
1-10	COCOM		457.075	
170	US NORTHCOM/NORAD	187,375	187,375 529,902	***************************************
180	IIS STRATCOM	529,902 329,474	329,474	***************************************
190	US CYBERCOM US CENTCOM	166,024	166,024	***************************************
200 210	IIS 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			
	MORILITY OPERATIONS		1 157 605	150,000
230	AIRLIFT OPERATIONS	1,307,695 144,417	1,157,695 144,417	- 150,000
240		-		
	TOTAL, BUDGET ACTIVITY 2	1,452,112	1,302,112	- 150,000
	BUDGET ACTIVITY 3: TRAINING AND RECRUITING			
	ACCESSION TRAINING	133,187	133,187	
280		25,041		1
290 300				
	BASIC SKILLS AND ADVANCED TRAINING			
33	SPECIALIZED SKILL TRAINING	401,996 477,064		
34		276,423		
35 36		95,948		
-	RECOULTING AND OTHER TRAINING AND EDUCATION		454500	
38	DECRIPTING AND ADVERTISING	. 154,530 4,132		
39	D EXAMINING	. 4,132		
40		209,49	7 209,497	7
41 42		59,90		+ 1,00
	TOTAL, BUDGET ACTIVITY 3		4 2,179,21	+ 1,00
	BUDGET ACTIVITY 4: ADMIN & SERVICEWIDE ACTIVITIES			
43	LOGISTICS OPERATIONS LOGISTICS OPERATIONS	681,78		
	O TECHNICAL SUPPORT ACTIVITIES	117,81	211 117,81	2 🖟

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### [in thousands of dollars]

Line	ltem	2019 budget estimate	Committee recommendation	Change from budget estimate
480 490 500 510	SERVICEWIDE ACTIVITIES ADMINISTRATION SERVICEWIDE COMMUNICATIONS OTHER SERVICEWIDE ACTIVITIES CIVIL AIR PATROL CORPORATION	953,102 358,389 1,194,862 29,594	933,102 424,389 1,195,862 33,600	20,000 +- 66,000 +- 1,000 +- 4,006
530	SUPPORT TO OTHER NATIONS INTERNATIONAL SUPPORT	74,959	74,959	
	SECURITY PROGRAMS	1,222,456	1,178,956	<b>- 43,500</b>
	TOTAL, BUDGET ACTIVITY 4	4,632,962	4,640,468	+7,506
	PL115—68 IMPLEMENTATION		1,000 142,400	+ 1,000 + 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:  $\ensuremath{\mathsf{Committee}}$ 

#### [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
011D	the request of the Air Force	1,323,330	1.280.730	- 282,000 - 42,600
	Maintain program affordability: Unjustified growth Program increase: Training range upgrades to support F-35A beddown			- 60,000 + 17,400
011M	Depot Purchase Equipment Maintenance  Maintain program affordability: Unjustified growth  Transfer: From Title II to Title IX for OCO Operations	3,511,830	2,994,830	- 517,000 - 17,000 - 500,000
011R	Facilities Sustainment, Restoration & Modernization Program increase: Additional demo		2,917,705	+ 25,000 + 25,000
011W	Contractor Logistics Support and System Support	7,613,084	7,848,084	+ 235,000 - 90,000 + 300,000
011Y	depot component repair capability  Flying Hour Program  Maintain program affordability: Unjustified growth  Transfer: From Title II to Title IX for OCO Operations	4,345,208	3,685,208	+ 25,000 - 660,000 - 160,000 - 500,000
011Z	Base Support	5,989,215	6,016,115	+ 26,900 - 14,000
	ForceProgram increase: Civil engineers equipment			+35,900 +5,000
012D	Cyberspace Activities	879,032	813,032	-66,000
	Cloud Migration costs	\		-66,000

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[In thousands of dollars]

Line	ltem	2019 budget estimate	Committee recommendation	Change from budget estimate
999	Classified Programs	1,164,810	1,158,410	- 6,400 - 6,400
021A	Airlift Operations	1,307,695	1,157,695	- 150,000 - 150,000
033E	Junior ROTC Program increase	59,908	60,908	+ 1,000 + 1,000
042A	Administration  Maintain program affordability: Unjustified growth	953,102	933,102	20,000 20,000
042B	Servicewide Communications  Transfer: Air Force—requested transfer from SAG 12D	358,389	424,389	+66,000
	for Cloud Migration costs			+66,000
042G	Other Servicewide Activities	1,194,862	1,195,862	+1,000
	training on safe childcare practices			+1,000
0421	Civil Air Patrol	29,594	33,600	+ 4,006 + 4,006
999	Classified Programs	1,222,456	1,178,956	- 43,500 - 3,500
	Maintain program affordability: Unjustified growth for	***************************************	***************************************	·
UNDIST	security clearance investigations Program increase: Public Law 115–68 implementation at			- 40,000
	Combatant Commands		1,000	+1,000
UNDIST	Program increase: Procurement of 7 DABS for INDOPACOM		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 probability 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 inter-

operability 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	A0 4 0 = 0
Budget estimate 9010	\$34,059,257,000
Dauget commate, 2019	DO OFO DOF AAA
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 dolla:
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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	100.016		
20	OFFICE OF THE SECRETARY OF DEFENSE	430,215	430,995	+ 78
40	SPECIAL OPERATIONS COMMAND	602,186	602,186	
	S. ZONE OF ENVIRONG GOMMAND	5,389,250	5,308,115	-81,13
	TOTAL, BUDGET ACTIVITY 1	6,421,651	6,341.296	00.25
		0,421,031	0,341,290	- 80,35
50	BUDGET ACTIVITY 3: TRAINING AND RECRUITING			
60	DEFENSE ACQUISITION UNIVERSITY	181,601	181,601	***************************************
UU	JOINT CHIEFS OF STAFF RECRUITING, AND OTHER TRAINING AND	1		
70	EDUCATION	96,565	96,565	
70	SPECIAL OPERATIONS COMMAND	370,583	370,583	
	TOTAL, BUDGET ACTIVITY 3	C40.740	040 740	
- 4		648,749	648,749	
00	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
.30	DEFENSE INFORMATION SYSTEMS AGENCY	2,106,930	2.046.930	- 60,000
150	DEFENSE LEGAL SERVICES AGENCY	27,403	/ L1/111	
160	DEFENSE LOGISTICS AGENCY	379,275	397,775	+ 18,500
70	DEFENSE MEDIA ACTIVITY	207,537	217,537	+ 10,000
80	DEFENSE PERSONNEL ACCOUNTING AGENCY	130,696		
90	DEFENSE SECURITY COOPERATION AGENCY	754,711	686,744	- 67.967
00	DEFENSE SECURITY SERVICE	789,175	772,816	- 16,359
20	DEFENSE TECHNOLOGY SECURITY AGENCY	34,951		- 10,333
3U	DEFENSE THREAT REDUCTION AGENCY	553,329	545.840	- 7.489
ן טכ	DEPARTMENT OF DEFENSE EDUCATION ACTIVITY	2,892,284	2,855,239	- 37,045
bU	MISSILE DEFENSE AGENCY	499,817		- 37,043
50	OFFICE OF ECONOMIC ADMISTMENT	70,035		
9U	OFFICE OF THE SECRETARY OF DEFFNSF	1,519,655	1,547,883	+ 28.228
JU	SPECIAL OPERATIONS COMMAND	97,787	99,787	+ 2.000
ין טו	WASHINGTON HEADQUARTERS SERVICES	456,407	454,727	- 1,680
-	OTHER PROGRAMS	15,645,192	15,104,857	- 540,335
	TOTAL, BUDGET ACTIVITY 4	20 202 225		
1		29,282,225	28,699,078	- 583,147
n ).	MPACT AID		40.000	+40.000

[In thousands of dollars]

Line	Item	2019 budget estimale	Committee recommendation	Change from budget estimate
	IMPACT AID FOR CHILDREN WITH DISABILITIES HISTORICAL UNDEREXECUTION SEXUAL TRAUMA TREATMENT PILOT PROGRAM VIETNAM DIOXIN REMEDIATION		10,000 - 93,340 2,000 15,000	+ 10,000 - 93,340 + 2,000 + 15,000
	TOTAL, OPERATION AND MAINTENANCE, DEFENSE—WIDE	36,352,625	35,662,783	- 689,842

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

ine	ltem	2019 budget estimate	Committee recommendation	Change from budget estimate
	Joint Chiefs of Staff	430,215	430,995	+ 78
	Program increase: Operational logistics exercise ele-			2.50
	ments			+ 2,50
				-1,72
	Special Operations Command/Operating Forces	5,389,250	5,308,115	- 81,13
	Maintain Program Affordability: Base support			- 8,40
	Improving Funds Management: Civilian FTE pricing		.,,	- 14,78
	Maintain Program Affordability: Unjustified growth for			
	contract services		,	- 11,86
	Maintain Program Affordability: Unjustified growth for			
	TACLAN		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	- 18,1
	Maintain Program Affordability: Unjustified growth for			l,
	Maintain Program Anordaumity: Onjustined growth to			- 20,0°
	maintenance			
	Maintain Program Affordability: Unjustified growth for			-8,0
	GM/CM	166,131	204.131	+ 38,0
	Civil Military Programs	100,131	20-1,202	+10,0
	Program increase: Innovative readiness training			+ 13,0
	Program increase: National Guard Youth Challenge	,		+ 15.0
	Program increase: STARBASE	050 022	910.923	+ 51.0
	Defense Human Resources Activity	859,923	/	+ 20,0
	Program increase: Beyond the Yellow Ribbon			7 20,0
	Program increase: Defense critical language and cul-		1	+6.0
	ture program			+25,0
	Program increase: Special Victims' Counsel		0.040.020	
	Defense Information Systems Agency	2,106,930	2,046,930	-60,0
	Maintain Program Affordability: Unjustified growth for			50.4
	NBIS		007.775	-60,0
	Defense Logistics Agency	379,275	397,775	+ 18,
	Program increase: AM-2 airfield landing matting			+ 10,
	Program increase: Procurement technical assistance			
	program			+8,
	Defense Media Activity	207,537	217,537	+ 10,
	Program increase: IP streaming	,	***************************************	+10,
	Defense Security Cooperation Agency	754,711	686,744	<b>−67</b> ,
	Maintain Program Affordability: Maintain level of ef-			
	fort—Regional Centers			-3,
	Maintain Program Affordability: Maintain level of ef-			1
	fort—Wales Initiative			-4,
	Maintain Program Affordability: FTE overestimation—			
	Maintain Program Anordaumty: TTE overestimation			4,
	DSCA Headquarters			
	Maintain Program Affordability: Maintain level of ef-			_ 5,
	fort—Defense Institution Reform Building			1
	Maintain Program Affordability: Maintain level of ef-			- 38
	fort—Security Cooperation			.
	Maintain Program Affordability: Maintain level of ef-			-13
	fort—South East Asia Maritime Security Initiative	700 175		
	Defense Security Service	789,178	112,010	-10

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[In thousands of dollars]

Line	Hem	2019 budget estimate	Committee recommendation	Change from budget estimate
	Improving Funds Management: Civilian FTE pricing Maintain Program Affordability: Unjustified growth in			- 5,202
	travel			-1,157
	PSSD			- 10,000
	Defense Threat Reduction Agency	553,329	545,840	-7,489
1	Improving Funds Management: Remove one—time costs Maintain Program Affordability: JIDO mission enablers		***************************************	- 3,878
	unjustified growth			-3,611
	Department of Defense Education Activity	2,892,284	2,855,239	- 37,045
	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 Program increase: CDC water contamination study and		<b></b>	+ 6,000
	assessment			+10,000
	Program increase: Clearinghouse Program increase: Defense Environmental International			+1,000
	Cooperations			+1,000
	Program increase: Defense Fellows Program			+10,000
	Program increase: DOD emerging contaminants			+1,000
	Program increase: DOD environmental resiliency Program increase: Readiness and environmental pro-			+ 1,000
	tection initiative Maintain Program Affordability: Unjustified growth for		***************************************	+10,000
	civilian personnel		***************************************	-3,672
	contract services			-8,100
	Special Operations Command/Admin & Svc—wide Activities Program increase: Defense critical language and cul-	97,787	99,787	+ 2,000
	ture program			+2,000
	Washington Headquarters Services	456,407	454,727	- 1,680
	Pricing		***************************************	1,680
	Classified Programs	15,645,192	15,104,857	-540,335
aun ior	Classified adjustment			-540,335
INDIST INDIST	Program increase: Impact aid for children with disabilities Program increase: Impact aid for schools with military de-		10,000	+10,000
	pendent students		40,000	+40,000
NDIST	Program increase: Sexual trauma treatment pilot program		2,000	+2,000
NDIST	Program increase: Vietnam dioxin remediation		15,000	+15,000
NDIST	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.

### OPERATION AND MAINTENANCE, ARMY RESERVE

Appropriations, 2018	\$2.877,104,000
Budget estimate, 2019	
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			
10 20 30 40 50	LAND FORCES MODULAR SUPPORT BRIGADES ECHELONS ABOVE BRIGADES THEATER LEVEL ASSETS LAND FORCES OPERATIONS SUPPORT AVIATION ASSETS	13,867 536,438 113,225 551,141 89,073	13,867 536,438 113,225 537,141 89,073	- 14,000
60 70 80	LAND FORCES READINESS FORCES READINESS OPERATIONS SUPPORT LAND FORCES SYSTEM READINESS DEPOT MAINTENANCE	409,531 101,411 60,114	392,531 101,411 60,114	- 17,000
90 100 110	LAND FORCES READINESS SUPPORT BASE OPERATIONS SUPPORT	595,728 304,658 22,175	579,728 304,658 22,175	- 16,000
	TOTAL, BUDGET ACTIVITY 1BUDGET ACTIVITY 4: ADMIN & SERVICEWIDE ACTIVITIES	2,797,361	2,750,361	<b>-47,000</b>
120 130 140 150 160	ADMINISTRATION AND SERVICEWIDE ACTIVITIES SERVICEWIDE TRANSPORTATION ADMINISTRATION SERVICEWIDE COMMUNICATIONS PERSONNEL/FINANCIAL ADMINISTRATION RECRUITING AND ADVERTISING	11,832 18,218 25,069 6,248 58,181	11,832 18,218 25,069 6,248 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	ltem	2019 budget estimate	Committee recommendation	Change from budget estimate
115	Land Forces Operations Support	551,141	537,141	- 14,000 - 14,000
121	Force Readiness Operations Support  Maintain program affordability: Unjustified growth	409,531	392,531	- 17,000 - 17,000 - 17,000

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#### [In thousands of dollars]

Line	ltem	2019 budget estimate	Committee recommendation	Change from budget estimate
131	Base Operations Support	595,728	579,728	- 16,000
UNDIST	counted for			-16,000
UNDIST	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	ltem	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	-6,00
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	- 3,00
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	- 9,00
	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	- 9,00

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Line	ftem	2019 budget estimate	Committee recommendation	Change from budget estimate
1A1A	Mission and Other Flight Operations	569,584	563,584	- 6,000 - 6,000
1C6C	Combat Support Forces	121,070	118,070	-3,000
	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	ltem .	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	- 50,00
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 60	CONTRACTOR LOGISTICS SUPPORT AND SYSTEM SUPPORT	241,239 385,922	284,239 385,922	+43,000
ชบ	BASE OPERATING SUPPORT	360,922	300,922	***************************************
	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	- 12,70

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 - 50,000
011R	Facilities Sustainment, Restoration & Modernization Program increase: Additional demo	120,736	123,536	+ 2,800 + 2,800
011W	Contractor Logistics Support and System Support Improving funds management: Program decrease unac-	241,239	284,239	+43,000
	counted for			<b>-9,000</b>
	Program increase			+ 52,000
UNDIST	Improving funds management: Program decrease unac-			
	counted 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	ftem	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	-20,00
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	- 18,80
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	- 21,00
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	- 59,80
	BUDGET ACTIVITY 4: ADMIN & SERVICEWIDE ACTIVITIES			
	ADMINISTRATION AND SERVICEWIDE ACTIVITIES			
130	SERVICEWIDE TRANSPORTATION	10,017	10,017	
140	ADMINISTRATION	72,746	76,546	+3,80

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#### [In thousands of dollars]

Line	Item	2019 budget estimate	Committee recommendation	Change from budget estimate
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	ltem	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 unac-			
	counted 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 unac-			
	counted for			- 25,000
	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
NDIST	Maintain program affordability: Unjustified growth		- 88,000	- 88,000
NDIST	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, Na-

tional 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	<b>¢¢ 000 700 000</b>
Budget estimate 2019	\$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	ltem	2019 budget estimate	Committee recommendation	Change from budget estimate
10 20 30 40 50	OPERATION AND MAINTENANCE, AIR NATIONAL GUARD BUDGET ACTIVITY 1: OPERATING FORCES AIR OPERATIONS AIRCRAFT OPERATIONS DEPOT PURCHASE EQUIPMENT MAINTENANCE FACILITIES SUSTAINMENT, RESTORATION & MODERNIZATION CONTRACTOR LOGISTICS SUPPORT AND SYSTEM SUPPORT	2,619,940 623,265 748,287 303,792 1,061,759	2,533,940 631,540 748,287 309,292 1,061,759	- 86,000 + 8,275 + 5,500
60	BASE OPERATING SUPPORT	988,333	1,023,633	+ 35,300
	TOTAL, BUDGET ACTIVITY 1BUDGET ACTIVITY 4: ADMIN & SERVICEWIDE ACTIVITIES  SERVICEWIDE ACTIVITIES	6,345,376	6,308,451	- 36,925
70 80	ADMINISTRATION	45,711 36,535	45,711 36,535	
	TOTAL, BUDGET ACTIVITY 4	82,246	82,246	***************************************
	DECREASE UNACCOUNTED FOR		- 18,000 61,000	- 18,000 + 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:

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#### (in thousands of dollars)

Line	ltem	2019 budget estimate	Committee recommendation	Change from budget estimate
011F	Aircraft Operations	2,619,940	2,533,940	-86,000
Ulir	Maintain program affordability: Projected underexecu-			- 80,000
	Improving funds management. Program decrease unac-			-6,000
011G	counted for	623,265	631,540	+ 8,275
VIIG	Improving funds management: Program decrease unac-			- 15,000
	Program increase: Disaster relief mobile kitchen trailers	***************************************		+7,800
	Program increase: Air National Guard readiness train- ing 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		200.000	+ 675 + 5.500
011R	Facilities Sustainment, Restoration & Modernization	303,792	309,292	+ 5,500
011Z	Program increase: KC-46A emergent requirements Base Support	988,333	1,023,633	+ 35,300
0112	Transfer: Air National Guard-requested transfer for en-			
	vironmental projects from Environmental Restora- tion, 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 unac-		-18.000	-18,000
UNDIST	counted for		61,000	

# U.S. COURT OF APPEALS FOR THE ARMED FORCES

Appropriations, 2018	\$14,538,000
Appropriations, 2010	14,662,000
Budget estimate, 2019	
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	\$235,809,000 203,449,000
Budget estimate, 2019	228,449,000
Committee recommendation	220,445,000

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	\$365,883,000 329,253,000 329,253,000
Committee recommendation	329,233,000

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	296,808,000 365,808,000
Committee recommendation	305,000,000

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
Appropriations, 2018	8,926,000
Budget estimate, 2019	8.926,000
Committee recommendation	0,920,000

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

# Environmental Restoration, Formerly Used Defense Sites

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

# OVERSEAS HUMANITARIAN, DISASTER, AND CIVIC AID

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

# COOPERATIVE THREAT REDUCTION ACCOUNT

Appropriations, 2018	\$350,000,000 335,240,000 335,240,000
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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]

ltem	2019 budget estimate	Committee recommendation	Change from budget estimate
COOPERATIVE THREAT REDUCTION			
Strategic Offensive Arms Elimination	2,823 5.446	2,823 5.446	
Chemical Weapons Destruction  Biological Threat Reduction  Other Assessments/Admin Costs	197,585 25,448	197,585 25,448	

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#### [In thousands of dollars]

item	2019 budget estimate	Committee recommendation	Change from budget estimate
Global Nuclear Security WMD Proliferation Prevention Total, Cooperative Threat Reduction	29,001 74,937 335,240	29,001 74,937 335,240	

# DEPARTMENT OF DEFENSE ACQUISITION WORKFORCE DEVELOPMENT FUND

Appropriations, 2018	100,000
Commence 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
2	Retention and Recognition Program increase for unfunded requirement	16,200	25,700	+ 96,100 + 9,500
3	Recruiting and Hiring	153,176	199,576	+ 9,500 + 46,400
			***************************************	+ 46,400
	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

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.

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### AIRCRAFT PROCUREMENT, ARMY

Appropriations, 2018	\$5,535,794,000 3,782,558,000 4,890,658,000
Committee recommendation	4,000,000,000

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:

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	Change from	Budget		+17,900 -3,100			+ 720,000	+ 319,500	+4.000			+1,058,300							+ 39,800	+ 10,000	
	Chang	G\$.																			
	Committee	recommendation		18,644 40,226	46,416	753,248	1,004,687	58,500 1,308,310	106,150 150,138	99,278	24,235	3,784,482	27,114	97,781	104 996	7,807	5,573	7,522	17 719	16,443	123,614
		Ė				48	12	49	18	9											
	2019 budget	estimate		744 43,326	46,416	753,248	284,687	988,810	106,150	99,278	24,235	2,726,182	27,114	97,781	104.996	7,807	5,573	7,522	17,719	6,443	123,614
thousands]	ð	-cu).				48	12	49	18	9											
[Dollars in thousands]	Item		AIRCRAFT PROCUREMENT, ARMY	FIXED WING UTILITY F/W CARGO AIRCRAFT MQ-1 UAV RQ-11 (RAVEN)	ROTARY	AH-64 APACHE BLOCK IIIA REMAN AH-64 APACHE BLOCK IIIA REMAN [AP-CY]	AH-64 APACHE BLOCK IIIB NEW BUILD AH-64 APACHE BLOCK IIIB NEW BUILD (AP-CY)	P-CYI	UH-60 BLACKHAWK A AMD L MODELS		TATAL ALGORITHM	IUIAL, AIKCKAFI MODIFICATION OF AIRCRAFT	ቨ	MULTI SENSOR ABN RECON (MIP)			ARL SEMA MODS [MIP]	EMARSS SEMA MODS [MIP]	UTILITY/CARGO AIRPLANE MODS	NETWORK AND MISSION PLAN	COMMS, NAV SURVEILLANGE
	Line			284	•	~ ∞ 0	10	11	13	15			18	20	77	3 2	24	25	97	28:	59

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rom	Budget estimate		+ 49,800				+1,108,100
Change from	Oty.						
;	Committee recommendation	30,000 26,848 103,246 17,644	860,798	57,170 5,853 13,496 36,839	1,778 34,818 27,243 63,872 1,417 1,901 991	245,378	4,890,658
	Otty.						
	2019 budget estimate	30,000 26,848 103,246 17,644	810,998	57,170 5,853 13,496 36,839	1,778 34,818 27,243 63,872 1,417 1,901 991	245,378	3,782,558
	Othy.						
	ltem	DEGRADED VISUAL ENVIRONMENT GATM ROLLUP GATM ROLLUP UAP MODS UAS MODS	TOTAL, MODIFICATION OF AIRCRAFT	GROUND SUPPORT AVIONICS ARCGART SURRYVABILITY EQUIPMENT SURVIVABILITY CM CAMNS COMMON INFRARED COUNTERMESSURES	OTHER SUPPORT AVIONICS SUPPORT EQUIPMENT COMMON GROUND EQUIPMENT ARCREW INTERRATED SYSTEMS ARR TRAFFIC CONTROL INDUSTRIAL FACILITIES LAUNCHER, 2.75 ROCKET LAUNCHER, 2.75 ROCKET	TOTAL, SUPPORT EQUIPMENT AND FACILITIES	TOTAL, AIRCRAFT PROCUREMENT, ARMY
	ije	33 33 33		34 35 36 37	38 39 40 41 42 43		

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The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Line	ltem	2019 budget estimate	Committee recommendation	Change from budget estimate
2	Utility F/W Aircraft	744	18,644	+ 17,900 + 17,900
3	MQ-1 UAV	43,326	40,226	-3,100
	Growth			-3,100
9	AH-64 Apache Block IIIB New Build Program increase: Additional helicopters	284,687	1,004,687	+ 720,000 + 720,000
11	UH-60 Blackhawk M Model [MYP]	988,810	1,308,310	+319,500
13	Program increase: Fifteen aircraft for the ARNGUH-60 Black Hawk A and L Models	146,138	150,138	+ 319,500 + 4,000
	Program increase: ARNG UH/HH-60 Black Hawk SWIR inte- gration			+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.

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### 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:

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Line	Item	40	2019 budget	ź	Committee	Chang	Change from
		·(ca	estimate	rig.	recommendation	Oty.	Budget
	MISSILE PROCUREMENT, ARMY OTHER MISSILES						
			;				
3 2	INDIRECT FIRE PROTECTION	179	871,276	179	105,395		- 6,000
4	_		145,636		145,636		
9	JOINT AIR-TO-SURFACE MISSILE S		002,10		986,12		-3,700
c	ANTI-TANK/ASSAULT MISSILE	1,046	276,462	1,046	276,462		
00	JAVELIN (AAWS-M) SYSTEM S TOW 2 SYSTEM SUMMARY	709	303,665	709	214,365		- 89.300
2 =		1,472	105,014	1,472	102,113		-2,901
12	MLRS REDUCED RANGE PRA	3,267	359,613	3,267	355,859		-3,754
	TOTAL, OTHER MISSILES				100,07	***************************************	
	MODIFICATION OF MISSILES		2,245,250		2,139,605		-105,655
15	MODIFICATIONS PATRIOT MODS						
16	ATACMS MODS		313,228		313,228		
18	STINGER MODS		261,056		171,656		-20,000
19	AVENGER MODS		94,756		94,756		
20		***************************************	48,670		31,093		-17,577
22	HIMARS MODIFICATIONS		383,216		361,268		- 21 948
	TO MICOLITICAL PROPERTY.		10,196		10,196		0.5,51
	SPARES AND REPAIR PARTS		1,075,161		985,636		- 89,525
73	SPARES AND REPAIR PARTS		27,737		27 737		

	(Dollars in thousands)	iousands]					
						Change from	from
Line	item	Qty.	2019 budget estimate	Oty.	Committee recommendation	Qty.	Budget estimate
24	SUPPORT EQUIPMENT AND FACILITIES  24 AIR DEFENSE TARGETS  55 PARDICITION ARSE SUPPORT		6,417		6,417 1,202		
3	TATAL SUBDINE FOLIDMENT AND FACILITIES		7,619		7,619		
	TOTAL, MISSILE PROCUREMENT, ARMY		3,355,777		3,160,597		-195,180

73

# 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] Improving funds management: Prior year carryover of support costs			-6,00
4	INDIRECT FIRE PROTECTION CAPABILITY INC 2-I [AP-CY] Improving funds management: Forward financing program management	31,286	/ /	6,000 3,700
8	Javelin [Aaws-M] System Summary Improving funds management: CLU retrofits funded in Public Law 115–141	303,665		3,700 89,300
	Improving funds management: Forward financing sup- port costs		***************************************	- 86,500
9	Tow 2 System Summary	105,014	102,113	- 2,800 - 2,901
11	Guided MLRS Rocket [GMLRS]	359,613	355,859	- 2,901 - 3,754
16	rect conversions unaccounted for	221,656	171,656	- 3,754 - 50,000
19	Public Law 115–141	48,670	31,093	50,000 17,577
21	ahead of need	383,216	361,268	-17,577 -21,948
	viously funded Improving funds management: Unit cost savings Insufficient budget justification: Reimbursable to di-			- 12,300 - 7,600
	rect conversions unaccounted for			-2,048

# PROCUREMENT OF WEAPONS AND TRACKED COMBAT VEHICLES, ARMY

Appropriations, 2018	\$4,391,573,000
Budget estimate, 2019	4,409,110,000
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

	rom	Budget estimate		-1,195	-150,189 +243,390	- 160,000	+107,100			-1,024	- 2,559 - 3,756	+21,767	+ 12,500	-7,434		+ 17,500	-1,500	- 7,929		
	Change from	Otty.			+ 79		+13													
	Committee	recommendation		478,606	127,301	465,424	458,902	2,120	62,407	141,231	925,041 1,072,243	4,140,064	14,455	23,345	22,330	18,197	46,236 67,806	35,968	48,251	1,684
		oty.		131	CO	70	43	56	12	30	95									
	4-6-1	2019 budger estimate		479,801	287,490	625,424	26,482 351,802	110,500	62,407	142,255	927,600 1,075,999	4,118,297	1,955	23,345	22,330	697	46,236	7,929 35,968	48,251	1,684
usands]		Qty.		131	C	ç	30	26	12	30	95									
[Dollars in thousands]		Item	PROCUREMENT OF WEAPONS AND TRACKED COMBAT VEHICLES (W&TCV), ARMY	TRACKED COMBAT VEHICLES ARMORED MULTI PURPOSE VEHICLE (AMPV)	MODIFICATION OF TRACKED COMBAT VEHICLES STRYKER (MOD)	STRYKER UPGRADE STRYKER UPGRADE STRYKER UPGRAM (MOD)	M109 FOV MODIFICATIONS		) ASSAULT BRIDGE (MOD)	M88 FOV MODS	-	TOTAL, TRACKED COM	WEAPONS AND OTHER COMBAT VEHICLES	MZ4U MEDIUM MACHINE GON (1. SZEMIN) MULT-ROLE AND ANTI-PERSONNEL WEAPON		22 MORTAR SYSTEMS AND THE MODELLE FORM)	COMPACT SEMI-AUTOMATIC SNIPER SYSTEM	25 CHATBINE 22 CONTROL 22 COMPANY AND STATE CONTROL 22 COMMANY REMOTERY OPPORTED WITHOUT STATEMENT OF THE CONTROL 22 COMMANY REMOTERY OF THE CONTROL 22 COMMANY REMOTERY OF THE CONTROL 22 COMMANY REMOTERY OF THE CONTROL 22 CONTROL 2	_	MOD OF WEAPONS AND OTHER COMBAT VEH MK-19 GRENADE MACHINE GUN MODS
		Line		2	4	20 50	~ ~	5 05	21	12	14 7	1	-	- # ?	200	67.6	120	700	7 2	2

	(Dollars in thousands)	10usands]					
Line	Item	ŧ	2019 budget	i	Committee	Change from	from
		, which	estimate	ris.	recommendation	Oth.	Budget
30	M777 MODS		3.086		000		
3.5	M4 CARBINE MODS		31 575		3,085		
35	MZ 50 CAL MACHINE GUN MODS		01,00		31,5/5		
33	M249 SAW MACHINE GUN MODS		21,500		14,178		-7,422
34	M240 MEDIUM MACHINE GUN MODS		3,924		3,924	***************************************	
35	SNIPER RIFLES MODIFICATIONS		6,940		6,940		
36	M119 MODIFICATIONS		2,747		2,747		
37			5,704		4,394		-1,310
38			3,965		3,965		
	SUIPPORT EQUIPMENT AND EACH TITE		1/6'6		5,577		
39	ITEMS LESS THAN \$5.0M (W						
40	PRODUCTION BASE SUPPORT (WOCY-WITCH)		3,174		3,174		
41	SWALL ARMS EQUIPMENT (SOLDIER FNH PROG)		3,284		3,284		
			1,640		1,640		
	TOTAL, WEAPONS AND OTHER COMBAT VEHICLES		370,821		375,226		+4 405
	TOTAL, PROCUREMENT OF W&TCV, ARMY		4 400 110				201
			4,469,118	***************************************	4,515,290		+ 26 172

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77

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

	In thousands of do	iliaisj		
Line	ltem	2019 budget estimate	Committee recommendation	Change from budget estimate
2	Armored Multi Purpose Vehicle [AMPV]	479,801	478,606	-1,195 -1.195
4	Stryker (MOD) Transfer: Army requested transfer to W&TCV line 5 Restoring acquisition accountability: Revised DVH ac-	287,490	127,301	- 1,193 - 160,189 - 149,390
	quisition strategy			- 5,000
5	conversions unaccounted for	21,900	265,290	- 5,799 + 243,390 + 149,390
6	Program increase: DVHA1 conversions	625.424	465.424	+ 94,000 - 160,000
U	Restoring acquisition accountability: Revised A4 acquisition strategy	023,424	405,424	- 160,000 - 160,000
8	Paladin Integrated Management [PIM] Insufficient budget justification: Reimbursable to direct conversions unaccounted for	351,802	458,902	+ 107,100 - 2,900
	Program increase: PIM production restoration			-2,500 +110,000
13	Joint Assault Bridge	142,255	141,231	-1,024
14	conversions unaccounted for	927,600	925,041	1,024 2,559
15	conversions unaccounted for	1,075,999	1,072,243	- 2,559 - 3,756
18	conversions unaccounted for	1,955	14,455	- 3,756 + 12,500 + 12,500
20	GUN AUTOMATIC 30MM M230  Restoring acquisition accountability: Ahead of need	7,434		7,434 7,434
23	XM320 Grenade Launcher Module [GLM]	697	18,197	+17,500
25	Carbine	69,306	67,806	+17,500 -1,500
26	ment growth	7,929		- 1,500 - 7,929
32	quirements	21,600	14,178	- 7,929 - 7,422
36	Improving funds management: Prior year carryover M119 Modifications	5,704	4,394	- 7,422 - 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 solider 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.

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#### 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

									8	80									
	from	Budget estimate				666 —				+ 550 - 150	-16,200	- 4 668	+ 10,000	- 30,000	006 —		+18,550	-1,500	+ 20,000
	Change from	Oth.																	
	Himmon	recommendation			41,848	19,159	8,198	69,781	45,280	47,403 82,853	151,901	34 673	221,442	206,677	15,005	2	4,503 229,761	8,928	44,656 39,896
		Oty.											1 180	1,103					
Usalius	4 1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	2019 budget estimate			41,848	20,158	8,198	69,781	45,280	46,853 83,003	168,101	110 00	211,442	236,677	15,905		4,503 211,211	10,428	44,656 19,896
		Otty.											1 100	1,169					
[DOINGIS III UIOUSAIIUS]		Item	PROCUREMENT OF AMMUNITION, ARMY	AMMUNITION	SNALL/MEDIUM. CAL AMMUNITION CTG, 5.56MM, ALL TYPES	CTG, 7.62MM, ALL TYPES	CTG, :50 CAI, ALL TYPES	CTG, 30MM, ALL TYPES CTG, 40MM, ALL TYPES	MORTAR AMMUNITION SOMM MOREAR ALI TYPES		TANK AMMUNITION CTG TANK 105MM AND 120MM: ALL TYPES	ARTILLERY AMMUNITION		PROJ 155MM EXTENDED RANGE XM982 ARTILLERY PROPELLANTS, FUZES AND PRIMERS, ALL TYPES	MINES MINES AND CHARGES AN TYPES			OTHER AMMUNITION Candar at Types	DEMOLITION MUNITIONS, ALL TYPES . GRENADES, ALL TYPES
		-in-			-	3 2	5	<b>~</b> ∞	o	110	5	1	13	15	17	à	18	20	21 22 22

				81	
SIGNALS, ALL TYPES   WILDS	- 2,000 - 1,500	-8,817	+ 57,425	+57,425	+ 48,608
SIGNALS, ALL TYPES         81,214           SIGNALS, ALL TYPES         11,464         11,464           MINCELLANEOUS         11,464         11,464           AMMO COMPONENTS, ALL TYPES         5,224         5,224           AMMO COMPONENTS, ALL TYPES         2,810           AMMO COMPONENTS, ALL TYPES         11,133           TIENS LESS THAN \$5 MILLON         11,133           AMMUNITION PECULAR EQUIPMENT         11,133           FIRST DESTINATION TRANSPORTATION (AMMO)         18,456           CLOSEOUT LIABILITIES         1,679,322           CLOSEOUT LIABILITIES         1,679,322           AMMUNITION PRODUCTION BASE SUPPORT         1,679,322           PROVISION OF INDUSTRIAL FACILITIES         1,570,535           ARAIS INITIATIVE         3,771           TOTAL, AMMUNITION PRODUCTION BASE SUPPORT         555,439           TOTAL, PROCUREMENT OF AMMUNITION, ARMY         2,234,761           TOTAL, PROCUREMENT OF AMMUNITION, ARMY         2,234,761					
SIGNALS, ALL TYPES   10,121	8,121 11,464 5,224 2,810 11,193 10,500 18,456 100	1,670,505	451,558 157,535 3,771	612,864	
SIGNALS, ALL TYPES SIMULATORS, ALL TYPES MISCELLANEOUS AMMO COMPONENTS, ALL TYPES AMMO COMPONENTS, ALL TYPES AMMO COMPONENTS, ALL TYPES TITEMS LESS THAN \$5 MILLION TITEMS LESS THAN \$5 MILLION TOTAL, AMMUNITION PECULIAR EQUIPMENT TOTAL, AMMUNITION BASE SUPPORT PRODUCTION BASE SUPPORT PROPUSTRIAL FACILITIES CONVENTIONAL MUNITIONS DEMILITARIZATION, ALL TOTAL, AMMUNITION PRODUCTION BASE SUPPORT					
SIGNALS, ALL TYPES SIMULATORS, ALL TYPES MISCELLANEOUS AMMO COMPONENTS, ALL TYPES AMMO COMPONENTS, ALL TYPES AMMO COMPONENTS, ALL TYPES TIEMS LESS THAN \$5 MILLION TIEMS LESS THAN \$5 MILLION TOTAL, AMMUNITION AMMUNITION PRODUCTION BASE SUPPORT PRODUCTION BASE SUPPORT PRODUCTION BASE SUPPORT PROPUSION OF INDUSTRIAL FACILITIES CONVENTIONAL MUNITIONS DEMILITARIZATION, ALL ARMS INITIATIVE TOTAL, AMMUNITION PRODUCTION BASE SUPPORT TOTAL, AMMUNITION PRODUCTION BASE SUPPORT TOTAL, AMMUNITION PRODUCTION BASE SUPPORT	10,121 11,464 5,224 4,310 11,193 10,500 18,456	1,679,322	394,133 157,535 3,771	555,439	2,234,761
23 24 27 27 27 28 33 33 33 34 34		TOTAL, AMMUNITION AMMUNITION PRODUCTION BASE SUPPORT		TOTAL, AMMUNITION PRODUCTION BASE SUPPORT	TOTAL, PROCUREMENT OF AMMUNITION, ARMY

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# The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

ine	Item	2019 budget estimate	Committee recommendation	Change from budget estimate
3	CTG, Handgun, All Types	20,158	19,159	<b>- 999</b>
	funded (CTG, 9MM High Pressure Test M905)			<b>- 99</b> 9
10	81MM Mortar, All Types	46,853	47,403	+ 550
-	Restoring acquisition accountability: schedule slip (81MM			
	HE M821)			-4,45
	Program increase			+ 5,00
11	120MM Mortar, All Types	83,003	82,853	- 15
	Restoring acquisition accountability: LAP unit cost growth			- 15
	(120MM HE M933)	100 101	151,901	- 16.20
12	Cartridges, Tank, 105MM and 120MM, All Types	168,101	131,301	- 10,20
	Restoring acquisition accountability: Program delays			-8,20
	(XM1147)		***************************************	0,20
	Restoring acquisition accountability: schedule slip (120MM			-8.00
	M829A4)	39.341	34.673	-4.66
13	Artillery Cartridges, 75MM & 105MM, All Types	33,341	34,073	4,00
	Restoring acquisition accountability: requirement previously		,	-4.66
	funded (105MM IR ILLUM M1064)	211.442	221.442	+ 10.00
14	Artillery Projectile, 155MM, All Types	211,442		- 33.00
	Realignment M795: Army requested			+ 33,00
	Realignment BONUS: Army requested			+ 5,00
	Program increase: M1121			+ 5,00
10	Program increase: M825	236,677	206.677	- 30.00
16	Artillery Propellants, Fuzes and Primers, All	230,011	200,077	00,00
	Restoring acquisition accountability: requirement previously funded (PGK)			-30.00
17		15.905	15,005	_ 9
17	Mines & Clearing Charges, All Types	10,500	10,000	
	(MK7)			-50
	Restoring acquisition accountability: Production engineer-			
	ing growth (MK7)			-4
19	Rocket, Hydra 70, All Types	211.211	229,761	+ 18,5
13	Restoring acquisition accountability: Engineering cost			
	growth (Guided Rockets)			-11,4
	Program increase: Unfunded requirement			+30,0
20	CAD/PAD, All Types	10.428	8,928	-1,5
20	Improving funds management: Forward financing			1,5
22	Grenades, All Types	19.896	39,896	+ 20,0
22	Program increase: M18 variants			+ 20,0
23	Signals, All Types	10,121	8,121	-2,0
۲.)	Improving funds management: Forward financing			-2,0
26	Non-Lethal Ammunition, All Types	4,310	2,810	-1,5
20	Improving funds management: Forward financing			-1,5
32	Industrial Facilities	394,133	451,558	+ 57,4
JZ	Program increase			+ 57,4

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#### 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

			8	35			
		- 53,090	-128,000		- 6,000 - 3,000	-1,877	- 13,949 - 41,495
13,100 9,160 25,647 37,401	20,500	298,475 4,641 2,187	9,411 17,515 819 17,807 63,835 25,177	9,740	8,319 2,000 88,337 45,343 330	32,557	81,609 4,736 24,479 174,938
13,100 9,160 25,647 37,401	20,500	351,565 4,641 2,187	9,411 17,515 17,515 17,807 191,835 25,177	9,740	8,319 2,000 88,337 51,343 330 3,000	34,434	95,558 4,736 24,479 216,433
SHF TERM SWART—I (SPACE) 1 GLOBAL BROCST SVC—GBS 2 ENROUTE MISSION COMMAND (EMC) COMM—COMBAT SUPPORT COMM		COMIN—COMBAL COMMUNICATIONS HANDHELD MANPACK SMALL FORM FIT (HMS) RADIO TEMNINAL SET, MIDS LYT(2) TRACTOR DESK TRACTOR RIDF		COMM—INTELLIGENCE COMM CI AUTOMATION ARCHITECTURE [MIP] DEFENSE MILITARY DECEPTION INITIATIVE	INFORMATION SECURITY FROMIN'S BIOMERICS INFORMATION SYSTEM SECURITY PROGRAM—ISSP COMMUNICATIONS SECURITY (COMSEC) DEFENSIVE CYBER OPFERATIONS INSIDER THREAT PROGRAM—UNIT ACTIVITY MONITOR PERSISTENT CYBER TRAINING ENVIRONMENT		COMM—BASE COMMUNICATIONS INFORMATION SYSTENS EMERGENCY MANAGEMENT MODERNIZATION PROGRAM HOME STATION MISSION COMMAND CENTERS (MSMCC) INSTALLATION INFO INFRASTRUCTURE MOD PROGRAM
29 30 31 32	36	38 40 41 42	44 45 46 47 48	50	53 55 57 57 58	59	60 61 62 63

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			9010 kudaat		ower interest	Change from	from
ine	Item	Oty.	estimate	Qty.	recommendation	Oty.	Budget estimate
	ELECT EQUIP						
ä	ELECT EQUIP—TACT INT REL ACT [TIARA] ITTORES AN IMIDI		10.268		10.268		
88	DCGS-A [MP]		261,863		253,954		606'2-
69	=		5,434		5,434		
7	mod of In-Syc Equip (Intel SPT) [MIP]		45,998		45,998		
72	CI HUMINT AUTO REPRING AND COLL[CHARCS][MIP]		296		296		
2	HEMIS LEGO ITIMA QU'UM [WIII ]		21		011		
77	ELECT EQUIP—ELECTRONIC WARFARE [EW] LIGHTWEIGHT COLINTER MORTAR PANAR		9 165		9 165		
282			5,875		5,875		
73	AIR VIGILANCE (AV)		8,497		8,497		1 1 505
3 %	FAMILT OF PERSISIENT SURVEILLANGE CAT. [MIP]				5.400		+ 5.400
8			486		486		
	ELECT EQUIP—TACTICAL SURV. (TAC SURV)						,
84	SENTINEL MODS		79,629		77,752		- 1,877
% %	NIGHT VISION DEVICES		22,882		22.882		00C'7 +
88	EMS		17,393		17,393		
06	INDIRECT FIRE PROTECTION FAMILY OF SYSTEMS		46,740		6,740		- 40,000
5 2	FAMILY OF WEAPON SIGHTS (FWS)		140,737		125,513		-15,224
0.0	IOINT RATTI F COMMAND—PIATERM FIRC.—PI		405.239		383.691		-21.548
95	JOINT EFFECTS TARGETING SYSTEM (JETS)		66,574		66,574		
96	MOD OF IN-SERVICE EQUIPMENT (LLDR)		20,783		20,783		
97	COMPUTER BALLISTICS: LHMBC XM32		8,553		8,553		
86	MORTAR FIRE CONTROL SYSTEM		21,489		21,489		
66	COUNTERFIRE RADARS		162,121		162,121		
100	ELECT EQUIP—TACTICAL C2 SYSTEMS ARMY COMMAND POST INTEGRATED INFRASTRUCTURE		2,855		2,855		

		8'	7				
-3,924 -3,242 -8,871 -29,239			+15,000 + 144,500	- 299,649		-16,500	-2,217
19,153 29,913 5,136 15,087 29,144 29,144 15,164 15,164	12,265 201,875 10,976 66,330 5,927 27,896	4,392 1,970	15,506 144,500	3,851,015	2,314 7,478 179 954	81,729 64,438 78,892	8,471 27,666 11,594
19,153 3,837 5,136 18,329 38,015 15,164 29,239 6,823 1,177	12,265 201,875 10,976 66,330 5,927 27,896	4,392 1,970	506	4,150,664	2,314 7,478 173,954	98,229 64,438 79,916	8,471 29,883 11,594
AIR & MSL DEFENSE PLANNING & CONTROL SYS (AMD AIR & MSL DEFENSE PLANNING & CONTROL SYS (AMD LIFE CYCLE SOFTWARE SUPPORT (LCSS) LIFE CYCLE SOFTWARE SUPPORT (LCSS) MANIEUVER CONTROL SYSTEM (MCS) GLOBAL COMBAT SUPPORT SYSTEM—ARMY INTEGRATED PERSONNEL AND PAY SYSTEM—ARMY MOD OF IN-SERVICE EQUIPMENT (ENFIRE) MOD OF IN-SERVICE EQUIPMENT (ENFIRE) ELECT EQUIP—AUTOMATION			PRODUC BCT EME	TOTAL, COMMUNICATIONS AND ELECTRONICS EQUIPMENT OTHER SUPPORT EQUIPMENT			ENGINEER (MON-CONSTRUCTION) EC HANDHELD STANDOFF MINETELD DE GROUND STANDOFF MINE DETECTION AREA MINE DETECTION SYSTEM (AM
102 103 104 106 107 109 110	111 112 113 114 115 116	117	119		121 122 124	125 126 127	.128 129 130

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ë	Item	Oty.	2019 budget	Oth.	Committee	Change from	from Budget
2						ally.	estimate
131 132 133 134 136	HUSKY MOUNTED DETECTION SYSTEM (HMDS) ROBOTIC COMBAT SUPPORT SYSTEM EOD ROBOTICS SYSTEMS RECAPITALIZATION ROBOTICS AND APPLIQUE SYSTEMS REMOTE DEMOUTION SYSTEMS		40,834 4,029 14,208 31,456 1,748		40,834 4,029 18,826 31,456 1,748 7,829		+4,618
138	IIEMS LESS ITAM SOM, COUNTERWINE EQUIPMENT		5,806		5,806		
139 140	COMBAT SERVICE SUIPPORT EQUIPMENT HEATERS AND ECU'S SOLDIER ENHANCEMENT		9,852		9,852		
141	PERSONNEL RECOVERY SUPPORT SYSTEM [PRSS]		5,875 92,487 30,774		34,781 30,774		-57,706
145 146 147	FIELD FEEDING EQUIPMENT		17,521 44,855 17,173 2,000		17,521 44,855 15,978 2,000		-1,195
149	PETROLEUM EQUIPMENT QUALITY SURVEILLANCE EQUI		1,770		1,770		300 1
150	DISTRIBUTION SYSTEMS, PETR MEDICAL EQUIPMENT		39,730		35,535		+ 20,000
152	COMBAI SUPTUKI WEDICAL. MAINTEANNOE EQUIPMENT SYSTEMS MOBILE MAINTEANNOE EQUIPMENT SYSTEMS		37,722		34,479 4,985		-3,243
155			7,961		7,961		
128	ALL TERRAIN CRANES		13,031		13,031		
159	HIGH MOBILITY ENGINEER EXCAVATOR (HMEE) FOS ENHANGED RAPID AIRFIELD CONSTRUCTION CAPAP CONST FOLIDE ESP		46,048 980 37,017		980 980 35,652		- 1,365
107	COLO 1						

Part Comment						89			
TRAINING EQUIPMENT TABLES SUPPORT EQUIPMENT TABLES THAN \$5.0M (CONST EQUIPMENT TABLES THAN \$2.0M (CONST EQUIPMENT TABLES THAN \$2.0M (CLORATRALL).    CEMERATORS AND ASSOCIATE COURMENT TABLES THAN \$2.0M (CLORATRALL).   COURT TRAINING CENTER SUPPORT TABLES SUPPORT TABLES THAN TRAINING TOWNERS THAN TABLES THAN TABLES THAN TABLES SUPPORT TABLES THAN TABLES SUPPORT TABLES THAN TABLES SUPPORT COURMENT TABLES SUPPORT TABLES SUPPORT TABLES SUPPORT TABLES SUPPORT TABLES SUPP		- 2,048			-1,800	- 3,753	+ 2,000 - 2,559	-70,887	
TERNS LESS THAN \$5.0M (CONST EQUIP)   EAST THAN \$5.0M (CONST EQUIP)									
TEMS LESS THAN \$5.0M (CONST EQUIP)   6.103	6,103	25,663 8,385	133,772	12.901	121,428 228,598 33,080 32,700	4,270 72,542 9,806	4,368 11,879 51,484 6,633 49,797 2,301 11,608 4,956	1,855,219	9,817
RAIL FLOY CONTANIERIZATION EQUIPMENT RAIL FLOY CONTANIERIZATION EQUIPMENT RAIL FLOY CONTANIERIZATION EQUIPMENT THENS LESS HAM \$5.0M (FLOATRALL). GENERATORS GENERATORS GENERATORS GENERATORS AND ASSOCIATED EQUIPMENT TACTICAL LECETRIC POWER RECAPITALIZATION MATERIAL HANDLING EQUIPMENT TRAINING EQUIPMENT TRAINING EQUIPMENT TRAINING EQUIPMENT TRAINING EQUIPMENT TRAINING EQUIPMENT TRAINING EQUIPMENT TEST MOUSINED ARMY TRAINING TEST MOUSINED ARMY TRAINING TEST REQUIPMENT THEST EQUIPMENT TOTAL, STATEM SUPPORT EQUIPMENT THEST EQUIPMENT TOTAL, SPARE AND REPAIR PARTS  TOTAL, SPARE AND REPAIR PARTS  TOTAL, SPARE AND REPAIR PARTS									
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TIEMS LESS THAN \$5.0M (CONST EQUIP)  RAIL FLOAT CONTANNERIZATION EQUIPMENT ARMY WATERCRAFT ESP TIEMS LESS THAN \$5.0M (FLOATKALL)  GENERATORS GENERATORS AND ASSOCIATED EQUIPMENT TACTICAL ELECTRIC POWER RECAPITALIZATION MATERIAL HANDLING EQUIPMENT TRAINING EQUIPMENT COMBAT TRAINING CENTERS SUPPORT TRAINING EQUIPMENT COMBAT TRAINING STORES ANATION COMBINED RIMSS TACTICAL TRAINING CLOSE COMBAT TACTICAL TRAINER ANATION COMBINED RIMSS TACTICAL TRAINING TEST MEASURE AND DIG EQUIPMENT TIEST MEASURE AND DIG EQUIPMENT TIEST EQUIPMENT INTEGRATED FAMILY OF TEST EQUIPMENT INTEGRATED FAMILY OF TEST EQUIPMENT INTEGRATED FAMILY OF TEST EQUIPMENT TEST EQUIPMENT SYSTEMS (OPAS) ARADID EQUIPMING SOLDIER SUPPORT EQUIPMENT MAS STABLIZED BINOCULAR RAPID EQUIPMING SOLDIER SUPPORT EQUIPMENT TOTAL, OTHER SUPPORT EQUIPMENT TOTAL, OTHER SUPPORT EQUIPMENT TOTAL, SPARE AND REPAIR PARTS INITIAL SPARES—C&E  TOTAL, SPARE AND REPAIR PARTS INITIAL SPARES—C&E  TOTAL, SPARE AND REPAIR PARTS  TOTAL, SPARE AND REPAIR PARTS  INITIAL SPARES—C&E									
8 10 10 10 10 10 10 10 10 10 10 10 10 10		RAIL FLOAT CONTANNERIZATION EQUIPMENT 163 ARMY WATERCRAFT ESP 1164 ITEMS LESS THAN \$5.0M (FLOAT/RAIL)	GENERATORS 165 GENERATORS AND ASSOCIATED EQUIPMENT 166 TACTICAL ELECTRIC POWER RECAPITALIZATION		TRAINING EQUIPMENT  COMBAT TRAINING CENTERS SUPPORT  169 TRAINING DEVICES, NORSYSTEM  170 CLOSE COMBAT ACTICAL TRAINER  171 ANATION COMBINED ARMS TACTICAL TRAINING  172 GAMING TECHNOLOGY IN SUPPORT OF ARMY TRAINING	J JEFEL	OTHER SUPPORT EQUIPMENT  M25 STABILIZED BINOCULAR  177 RAPID EQUIPPING SOLDIER SUPPORT EQUIPMENT  178 PHYSICAL SECURITY SYSTEMS (OPA3)  179 BASE LEVEL CONL. EQUIPMENT (OPA-3)  180 MODIFICATION OF IN-SVC EQUIPMENT (OPA-3)  181 PRODUCTION BASE SUPPORT (OTH)  182 SPECIAL EQUIPMENT FOR USER TESTING  183 TRACTOR YARD	Port equipment	999 CLASSIFIED PROGRAMS

	from	Budget estimate	-290,451
	Change from	Otty.	
	Committoe	recommendation	7,709,078
		Oţź.	
	2010 hudget	estimate	7,999,529
housands]		- <del>S</del>	
[Dollars in thousands]		Item	TOTAL, OTHER PROCUREMENT, ARMY
		Line	

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The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Line	ltem .	2019 budget estimate	Committee recommendation	Change from budget estimate
3	Ambulance, 4 LITTER, 5/4 TON, 4x4	50,123	170,123	+ 120,00
,	Program increase: HMMWV ambulances			+120,00
6	Joint Light Tactical Vehicle	1,319,436	1,302,473	16,96
	Maintain program affordability: Maintain test support level of effort			10.00
10	Family of Heavy Tactical Vehicles [FHTV]	138.105	121.691	- 16,96 - 16,41
	Restoring acquisition accountability: CLS contract award	100,100	121,031	-10,41
	delay	,		- 15,21
	Insufficient budget justification: Reimbursable to direct			•
12	conversions unaccounted for			- 1,19
12	Hvy Expanded Mobile Tactical Truck Ext Serv	31,892	28,596	- 3,29
14	Modification of In Svc Equip	78,507	75,265	- 3,290 - 3,242
	Insufficient budget justification: Reimbursable to direct	76,307	73,203	- 3,24
	conversions unaccounted for			-3.24
20	Signal Modernization Program	150,777	86,507	- 64,27
	Improving funds management: SFAB equipment funded in	1		
	Public Law 115–141			- 41,00
	Insufficient budget justification: Reimbursable to direct conversions unaccounted for		1	2.000
	Restoring acquisition accountability: TROPO delays			- 2,900 - 20,370
21	Tactical Network Technology Mod In Svc	469,117	430,775	- 20,370 - 38,342
	Maintain program affordability: Unjustified equipment	133,121	.00,770	00,041
	and support growth			- 35,000
	Insufficient budget justification: Reimbursable to direct		1	
28	conversions unaccounted for			- 3,342
20	Insufficient budget justification: Reimbursable to direct	56,737	69,960	+13,223
	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
47	Improving funds management: Site activation carryover  COTS Communications Equipment	191.835	63.835	- 1,499 - 128,000
"	Improving funds management: SFAB equipment funded in	131,033	03,033	- 128,000
	Public Law 115–141			-128,000
56	Defensive CYBER Operations	51,343	45,343	- 6,000
- 0	Insufficient budget justification: Program discrepancies			-6,000
58	Persistent Cyber Training Environment	3,000		-3,000
59	Restoring acquisition accountability: Ahead of need	34.434	22 557	-3,000
03	Insufficient budget justification: Reimbursable to direct	34,434	32,557	1,877
	conversions unaccounted for			-1.877
60	Information Systems	95,558	81,609	- 13,949
- 1	Restoring acquisition accountability: ARCYBER funded in			,
	excess to requirement			-13,949
63	Installation Info Infrastructure Mod Program	216,433	174,938	-41,495
- 1	Maintain program affordability: Unjustified growth	***************************************		-20,000
				- 21,495
88	DCGS-A [MIP]	261.863	253,954	- 7,909
	Insufficient budget justification: Reimbursable to direct			7,505
				-7,909
31			1,585	+1,585
32	Program increase: SOUTHCOM force protection			+ 1,585
14			5,400	+ 5,400
34	Sentinel Mods	79,629	77,752	+ 5,400 - 1,877

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#### [in thousands of dollars]

ine.	ltem	2019 budget estimate	Committee recommendation	Change from budget estimate
	Insufficient budget justification: Reimbursable to direct			
	conversions unaccounted for			-1,87
85	Night Vision Devices	153,180	155,680	+2,50
	Program increase: Digital night vision test devices			+2,50
90	Indirect Fire Protection Family of Systems	46,740	6,740	-40,00
	Improving funds management: Forward financing support			
	costs			-10,00
	Restoring acquisition accountability: Requirements pre-			
	viously funded			-30,00
91	Family of Weapon Sights [FWS]	140,737	125,513	15,22
	Restoring acquisition accountability: FWS-S program			
	delays			- 15,22
94	Joint Battle Command—Platform [JBC-P]	405,239	383,691	- 21,54
	Improving funds management: SFAB equipment funded in			
	Public Law 115-141			-13,35
	Insufficient budget justification: Reimbursable to direct			
	conversions unaccounted for			-8,19
02	AIR & MSL Defense Planning & Control Sys	33,837	29,913	- 3,92
	Insufficient budget justification: Reimbursable to direct			
	conversions unaccounted for			-3,92
04	Network Management Initialization and Service	18,329	15,087	- 3,24
	Insufficient budget justification: Reimbursable to direct			
	conversions unaccounted for			-3,24
.05	Maneuver Control System [MCS]	38,015	29,144	- 8,87
	Insufficient budget justification: Reimbursable to direct			
	conversions unaccounted for			-8,87
L07	Integrated Personnel and Pay System-Army [IPPS-A]	29,239		- 29,23
	Restoring acquisition accountability: Release 3.0 delays		15.500	- 29,23
19	Production Base Support [C-E]	506	15,506	+ 15,00
	Program increase: Advanced manufacturing			+ 15,00
120	BCT Emerging Technologies		144,500	+ 144,50
	Program increase: Cyber electromagnetic activities :			+ 144,50
125	Tactical Bridging	98,229	81,729	16,50
	Restoring acquisition accountability: LOCB acquisition			10.50
	strategy change	70.010		- 16,50
127	Common Bridge Transporter [CBT] Recap	79,916	78,892	- 1,02
	Insufficient budget justification: Reimbursable to direct			1.0
	conversions unaccounted for			-1,0
129	Grnd Standoff Mine Detectn Sysm [GSTAMIDS]	29,883	27,666	-2,2
	Insufficient budget justification: Reimbursable to direct			,,
	conversions unaccounted for		10 006	-2,2
133	EOD Robotics Systems Recapitalization	14,208	18,826	+ 4,6
	Transfer ground robotics MTRS standardization: Army-re-			
	quested from RDT&E line 138		34,781	+ 4,6 - 57,7
142	Ground Soldier System	92,487	34,761	- 51,7
	Improving funds management: SFAB equipment funded in			- 56.0
	Public Law 115–141			- 30,0
	Insufficient budget justification: Reimbursable to direct			-1.7
147	conversions unaccounted for	17,173	15,978	-1,7 -1,1
147	Family of Engr Combat and Construction Sets	17,173	13,376	
	Insufficient budget justification: Reimbursable to direct			-1,1
	conversions unaccounted for	20.720	25 625	
150	Distribution Systems, Petroleum & Water	39,730	33,033	-4,0
	Insufficient budget justification: Reimbursable to direct			. 40
	conversions unaccounted for		77 752	-4,0
151	Combat Support Medical	57,752	77,752	+ 20,0
	Program increase: Enhanced rotary wing medical kits			+ 10,0
	Program increase: Enhanced vehicle medical kits	07.700	24.470	+10,0
152	Mobile Maintenance Equipment Systems	37,722	34,479	-3,2
102	Insufficient budget justification: Reimbursable to direct			-3,2
102	Landau Caranana La			
	conversions unaccounted for	27.017	25 CE2	
161	conversions unaccounted for	37,017	35,652	- 1,3

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[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
	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			0,700
	conversions unaccounted for			- 3,753
177	Rapid Equipping Soldier Support Equipment	9.879	11.879	+ 2,000
	Program increase: Rapid equipping force	-,	11,070	+ 2,000
178	Physical Security Systems (OPA3)	54.043	51,484	
	Insufficient budget justification: Reimbursable to direct	34,043	51,484	- 2,559
- 11	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 CommunicationsTactical [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.

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## AIRCRAFT PROCUREMENT, NAVY

Appropriations, 2018	\$19,957,380,000
budget estimate, 2019	10.0/1.700,000
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

	(Dollars in thousands)	onsands]					
						Change from	from
Line	ltem	Oby.	2019 budget estimate	OţÀ:	Committee recommendation	Otty.	Budget estimate
	AIRCRAFT PROCUREMENT, NAVY						
•		24	1,937,553	24	1,852,953		-84,600
7	F/A-18E/F (FIGHTER) HORNET [MYP] (AP)	σ	58,799	17	58,799	+	+740,820
∞ 4	Joint Strike Fighter CV [AP-CY]		140,010	80	140,010	V+	+ 285 202
. 2	JSF STOVL		2,312,847	<del>6</del> 7	228,492	- !!	
9 1	JSF SIOVL [AP-LY] CH-53K (HEAVY LIFT)	00	1,113,804	∞	1,022,804		91,000
. ∞	CH-53K (HEAVY LIFT).		161,079		161,079		
67	[AP-CY]	7	806,337	10	1,024,337	+	+218,000 -8,200
2:	V-22 (MEDIUM LIFT) [AP-CY	25	36,955	25	820,755		
I 7	DH-IYAH-IZ	10	1,803,753	10	1,755,353		- 48,400
15	P-8A POSEIDON [AP-CY]		180,000	NAT	180,000	+1	+ 161,500
16	E-2D ADV HAWKEYE [AP-CY]	*	240,734		240,734		
•	TOTAL, COMBAT AIRCE		11,728,769		12,902,091		+1,173,322
,		2	206.000			-2	- 206,000
~ ×	5 C-40A	2	160,433	2	160,433		000
7	_	C	110,013	6	568.743		
27.6	MQ-4 TRITON MQ-6V1		58,522		58,522		
57			54,761		54,761		-3 000
25	STUASLO UAV	9	14,860	9	649,015		
7	_		1,822,353		1,605,353		-217,000
7.7	MODIFICA AFA SYS		25,277		25,277		

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n	7
ч	•

AN O STBIES					
		58,577		58,577	
F-18 SERIES		1 213 782		1 125 582	000 70
H-53 SERIES		70 007		70,027,1	006, 10
		130,557		130,651	
		07,001		100,001	
		04T'19		07,143	
		2,033		5,035	
		000		500 .	
TANNED AV SEDIES		08/,88		086,08	008'/
/V JENEO	-	11,560		11,660	
C-ZA	***************************************	11,327		8,327	-3,000
		79,075		70,575	- 8,500
FEWSG		282		597	
CARGO/TRANSPORT A/C SERIES		8.932		8.932	
E-6 SERIES		181 821		173 821	_ R 000
		23,566		23,022	0,00
		026,27		20,000	 
T_AS SERIES		070'/		020,7	
DIVINED DI ANT CHANGES		130,470		195,475	
DATE CEDICE		21,521		21,521	
		27,544		27,644	
		15,864		15,864	
		166,306		191,306	+25,000
		117,551		117,551	
YSTEM		1.994		1 994	
ID SYSTEMS		40 696		37 696	000 6
P-8 SERIES		71.251		71.050	000,0
MAGTE FW FOR AVIATION		11,501		10711	
		11,030	***************************************	11,090	
>		01,307		105,70	
		070'+17		134,020	008,02 —
		706			- 952
		36,518		36,618	 
7-30 CV SEMILS		21,236		21,236	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
		101,499		101,499	
		48 278		48 278	
		6.904		6 904	
				1026	
TOTAL, MODIFICATION OF AIRCRAFT		3,156,663		3,041,711	-114,952
AIPCRAFT CPARES AND REPAID PARTS					
-		1 709 090		1 000 000	000 000
	1	-		1,392,920	 + 200,000

	(Dollars in thousands)	lousands]					
			2010 hudget		ommittee	Change from	from
Cine	Item	Gý.	estimate	OĴŶ.	recommendation	aty.	Budget estimate
	AIRCRAFT SUPPORT EQUIPMENT AND FACILITIES						
65	COMMON GROUND EQUIPMENT		421,606		421,606		
99	AIRCRAFT INDUSTRIAL FACILITIES		24,496		24,496		
29	_		42,108		42,108		
89	OTHER PRODUCTION CHARGES		1,444		1,444		
69			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

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# The following table details the adjustments recommended by the Committee: $\ensuremath{\mathsf{Committee}}$

[in thousands of dollars]

Line	ltem	2019 budget estimate	Committee recommendation	Change from budget estimate
1	F/A-18E/F (Fighter) Hornet	1,937,553	1,852,953	- 84,60
	Restoring acquisition accountability: Unit cost savings Maintain program affordability: Unjustified growth in sup-			-54,100
_	port costs		,	20.500
3	Joint Strike Fighter CV	1,144,958	1,885,778	- 30,500 + 740,820
	Program increase: Four aircraft for the Marine Corps Program increase: Four aircraft for the Navy			+ 398,000
	Restoring acquisition accountability. Unit cost sovings		***************************************	+ 398,000
5	135L 210AF	2,312,847	2.598.049	- 55,180 + 285,202
	Program increase: Four aircraft			+ 412,000
7	UN-DSK (Heavy Lift)	1,113,804	1 022 004	-126,798
	Maintain program attordability: Unjustified support cost	1,113,004	1,022,804	<b>-91,000</b>
9	growth			-91,000
	Program Increase: Three aircraft for the Marine Corps	806,337	1,024,337	+218,000
	Restoring acquisition accountability. Unit cost sources			+ 240,000 - 22,000
10	V-22 (Medium Liπ)AP	36,955	28,755	- 8.200
14	Maintain program affordability: Excess to need		1 755 000	-8,200
	Restoring acquisition accountability: Anticinated unit coef	1,803,753	1,755,353	-48,400
	contract award savings			- 12,000
16				-36,400
	rrugram increase: One aircraff	742,693	904,193	+ 161,500
18	Restoring accountability. Unit cost savings			+ 170,000 - 8,500
10	C-40A	000 000		-206,000
	NC Law 115-141			***
21	NC-13UJAP	110,013	102,013	- 206,000 - 8,000
	Maintain program affordability: Excess advance procure-		102,010	-0,000
25	ment			-8,000
	Maintain program affordability: Excess production engi-	14,866	11,866	-3,000
30 1	neering support			3,000
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Program increase: EA-18G reactive electronic attack meas-	1,213,482	1,125,582	-87,900
	ures technology			. 12.000
	Restoring acquisition accountability: IRST modifications			+13,900
				-79,200
	recurring engineering			
6 E	-z series	88,780	80,980	22,600 7.800
1	Restoring acquisition accountability: SIPR CHAT mods early		33,000	7,000
1	to need	·····		-5,300
	mods early to need			-2.500
B C	Improving funds	11,327	8,327	-2,300 -3,000
9 C-	Improving funds management: Forward financed			-3,000
11	IMPROVING TUNDS management. Forward financed	79,075	70,575	- 8,500
?   E-	-b Series	181,821	173,821	8,500 8,000
Co	Maintain program affordability: Excess installation costs	100 000		-8,000
1	Program Increase: F/A-18 E/F adaptive radar counter-	166,306	191,306	+25,000
ID	measures			+25,000
ID	Systems	40,696	37,696	-3,000
V-	Maintain program affordability: Excess installation costs	214,820	104.020	-3,000
1.)		£14,020	194,020	- 20,800

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#### [in thousands of dollars]

Line	ltem	2019 budget estimate	Committee recommendation	Change from budget estimate
58	Restoring acquisition accountability: Common configuration unit cost savings Maintain program affordability: Excess support costs Next Generation Jammer [NGJ] Restoring acquisition accountability: Procurement early to	952		- 8,000 - 12,800 - 952 - 952
64	need	1,792,920	1,992,920	+ 200,000 + 200,000

#### 101

#### WEAPONS PROCUREMENT, NAVY

Appropriations, 2018	\$3,510,590,000
	φο,οτο,οσο,οοο
Budget estimate, 2019	3,702,393,000
	0,102,000,000
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

102	
-	

(0.00 n	[Dollars in thousands]	onsands]					
					7	Change from	from
Line	ltem	ûty.	soura sudget estimate	Otty.	recommendation	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		866'9		866'9		
	TOTAL, BALLISTIC MISSILES		1,085,748		1,085,748		
	OTHER MISSILES						
	STRATEGIC MISSILES 3 TOMAHAWK		98,570		98,570		
	TACTICAL MISSILES	140	211,058		211,058		
		191	77,927	249	122,927	+ 28	+ 45,000
	_	125	490,210	125	490,210		
	8 STANDARD MISSILE [AP-CY]	750	125,683 91,272		91,272		
	RAM COOLIND MISSIE 110	120	96,221	120	96,221 24,109		
	STAND OFF PRECISION GUIDE	31	11,378		11,378		001.1
	AERIAL TARGETS		3318		3,318		007'7-
-	15 UTHER MISSILE SUFFORT	25	81,190		111,190		+ 30,000
	LCS OTH MISSILE	00	18,156		18,156		
9	MODIFICATION OF MISSILES	45	98,384	45	98,384		
, 0			14,840		26,840		+ 12,000
J	-						

				103					
+ 10,000	+ 89,300	+11,000	- 22,121			-11,121			
		+ 2							
12,006 66,779 62,008	1,988,861	6,353 103,616 12,324	83,825 40,005 9,758	79,371	3,726	342,850	15,067	63,318 40,823 74,618 11,350 22,249	227,425
		90						06	
2,006 66,779 62,008	1,899,561	6,353 92,616 12,324	105,946 40,005 9,758	79,371	3,726	353,971	15,067	63,318 40,823 74,618 11,350 22,249	227,425
		45			***************************************			06	
SUPPOR EQUIPMENT AND FACILITIES  24 REAET SATELLITE COMM FOLLOW-ON  ORDNANCE SUPPORT EQUIPMENT  25 ORDNANCE SUPPORT EQUIPMENT		26 SSTD	JS AP MODS	Support Equipment Torpedo Support Equipment ASW range Support	DESTINATION TRANSPORTATION FIRST DESTINATION TRANSPORTATION	TOTAL, TORPEDOES AND RELATED EQUIPMENT	GUNS AND GUN MOUNTS 35 SMALL ARMS AND WEAPONS	MOUNTSAILUN OF GUNS AND GUN MOUNTS 36 CIWS MODS 37 COAST GUARD WEAPONS 38 GUN MOUNT MODS 39 LCS MODULE WEAPONS 41 AIRBORNE MINE NEUTRALIZATION SYSTEMS	TOTAL, OTHER WEAPONS

	[Dollars in thousands]	usands]					
			desperie		Control of the contro	Change from	from
Line	Item	œ.	estimate	Otty.	recommendation	Qty.	Budget estimate
43	SPARES AND REPAIR PARTS		135,688		135,688		
	TOTAL, WEAPONS PROCUREMENT, NAVY		3,702,393		3,780,572		+78,179

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The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

ine	ltem	2019 budget estimate	Committee recommendation	Change from budget estimate
5	Sidewinder	77,927	122,927	+45.000
15	Program increase: Additional munitions	137.137	120 427	+45,000
	Restoring acquisition accountability: BQM—177A acquisi- tion strategy	137,137	129,437	7,700
17	LRASM	01 100		- 7,700
	Program increase: Additional munitions	81,190	111,190	+30,000
20	Harpoon Mods	14 040		+ 30,000
-	Program increase: Additional munitions	14,840	26,840	+ 12,000
23	Weapons Industrial Facilities			+12,000
	Program increase: NIROP facilitization	2,006	12,006	+10,000
27	MK-48 Torpedo	00.010		+10,000
	Program increase: Additional munitions	92,616	103,616	+11,000
29	MK-54 Torpedo Mods	105.040		+11,000
	Restoring acquisition accountability: MK 54 Mod 0 in-	105,946	83,825	- 22,121
	Restoring acquisition accountability: MK 54 Mod 1 con-		***************************************	-4,212
- 1	tract 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.

#### 107

# 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

-4	•	$\sim$
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	[Dollars in thousands]	[sands]					
					o de la companya de l	Change from	from
Line	Item	Qty.	2019 budget estimate	Oty.	recommendation	Qty.	Buöget estimate
	PROCUREMENT OF AMMO, NAVY & MARINE CORPS						
	PROC AMMO, NAVY						
-	NAVY AMMUNITION General Pirpose Bombs		79,871		72,371		-7,500
2 0	JDAM INTERPRETATION OF TAXABLE POLYETY ALL TYPES	3,688	87,900 151,431	3,588	142,181		- 9,250
04	MACHINE GUN AMMUNITION		11,344		11,344		
വ വ	PRACTICE BOMBS  CARTRIDGES & CART ACTUATED DEVICES		56,227		56,227		
7	AIR EXPENDABLE COUNTERM		66,382		66,382		
∞ σ	JATOS 5 INCH/54 CHN AMMINITION		72,657		72,477		- 180
10	INTERMEDIATE CALIBER GUN		33,613		32,813 42,142		00%
=======================================	OTHER SHIP GUN AMMUNITION		49,888		49,888		
13.	PYROTECHNIC AND DEMOLIT		10,931		10,931		
2	AMIMONITION LESS ITAIN 45 IN		715 870		698 140		-17.730
	TOTAL, PROC AMMO, NAVY		0.70,017		21,000		
	PROC AMMO, MARINE CORPS						
	_		28.266		18.516		- 9,750
19	MORTARS DIRECT SURPORT MINITIONS		63,664		63,664		1100
22	_		59,295		51,020		C/7'8—
2 %	CUMBAL SUPPURI MUNITIONS AMMO MODERNIZATION		15,001		15,001		
53	ARTILLERY MUNITIONS		86,297		6,239		
20							10 00
	TOTAL, PROC AMMO, MARINE CORPS		290,339		272,314		C70'9T —
	TOTAL, PROCUREMENT OF AMMO, NAVY & MARINE CORPS		1,006,209		970,454		-35,755

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# 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
3	ment (Q2181 Laser Guided Bombs)			-7,500
J	Airborne Rockets, All Types	151,431	142,181	- 9,250
	66)			- 2,300 - 4,900
9	provement growth (APKWS)	72.657		- 2,050
	Restoring acquisition accountability: Unit cost growth (5"/ 54 propelling charge)			- 180
10	Restoring acquisition accountability: Unit cost growth	33,613	32,813	180 800
19	(57MM, HE—PD)			-800
13	Mortars	28,266	18,516	- 9,750
22	ments	59,295	51,020	- 9,750 - 8,275
	Improving funds management: Previously funded require- ment (7.62x39mm Non-Standard)		,	,
	Improving funds management: Contract delays (MK 281)			- 1,000 - 7,275

#### 110

# 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

	(Dollars in thousands)	usands]					
			2019 hudget		Committee	Change from	from
e E	ttem	Oth.	estimate	Otty.	recommendation	aty.	Budget estimate
	SHIPBUILDING & CONVERSION, NAVY						
	FLEET BALLISTIC MISSILE SHIPS OHIO REPLACEMENT SUBMARINE (AP)		3,005,330		3,242,330		+ 237,000
2 -	GRAM (CVN 80)		1,598,181		1,573,181		-25,000
4 rO t		7	4,373,382 2,796,401	2	4,373,382 2,796,401		
~ ∞	CVN KEFUELING OVERHAULS (AP-C7) DDG 1000		449,597 270,965		449,597 270,965		
9		က	5,253,327	ന	5,171,827		-81,500
=	LITTORAL COMBAT SHIP	-	646,244	2	1,121,244	+1	+ 475,000
	TOTAL, OTHER WARSHIPS		15,780,025		16,398,525		+ 618,500
2	AMPHIBIOUS SHIPS I PD-17	200000000000000000000000000000000000000		100 TO THE PROPERTY OF THE PRO	200 000		000 003 -
13	EXPEDITIONARY SEABASE	I	650,000	-	650,000		000,000+
14	LHA REPLACEMENT AP-CY			***************************************	350,000	***************************************	+350,000
	TOTAL, AMPHIBIOUS SHIPS		650,000	(000)	1,500,000		+ 850,000
Ť.	AUXILIARIES, CRAFT, AND PRIOR-YEAR PROGRAM COSTS EXPENITIONARY EAST TRANSPORT (EDE)				900		000
9	_	6	977 108	. 6	000,622	<del>-</del>	+ 225,000
17	TAO FLEET OILER [AP-CY]	,	75,046		75,046		
200	_	1	80,517	-	80,517		
200		2	41,520	2	41,520		
22	CULTITIENT OF SHORE CONNECTOR		205 275	4	550,038		- 84,000
33	_	7	72,062	7	97.062		+ 25.000
24	LCAC SLEP	=	23,321	1	23,321		
58	COMPLETION OF PY SHIPBUILDING PROGRAMS		207,099		207,099		

	[Dollars in thousands]	ousands]					
:			2010 hindrat		Committee	Change from	from
e .	Item	čķ.	estimate	÷	recommendation	oty.	Budget estimate
53	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, MAVY		21,871,437		23,992,937		+2,121,500

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## 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) Improving funds management: Excess incentive fees Program increase: Submarine industrial base expansion		3,242,330	+ 237,000 - 13,000
2	Transfer funding to RDN, line 84: CVN 78 Full Ship Shock Trial	1,598,181	1,573,181	+ 250,000 - 25,000
9	Restoring acquisition accountability: Excess growth in	5,253,327	5,171,827	25,000 81,500
10	multiyear procurement program DDG-51 [AP-CY] Program increase: Advance procurement for an addi-	391,928	641,928	81,500 + 250,000
11	tional fiscal year 2020 ship	646,244	1,121,244	+ 250,000 + 475,000
12	Program increase: Advance procurement for FV 2020		500,000	+ 475,000 + 500,000
14	LPD Flight II and/or MYP EOQ  LHA Replacement [AP-CY]  Program increase: Advance procurement for LHA-9		350,000	+ 500,000 + 350,000
15	Program increase: Additional ship		225,000	+ 350,000 + 225,000
21	Improving funds management: Outfitting and post de-	634,038	550,038	+ 225,000 84,000
23	Program increase: Accelerate detail design and con-	72,062	97,062	- 84,000 + 25,000
9	Cable Chin		250,000	+ 25,000 + 250,000 + 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 shipbuilding 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.

#### 115

### OTHER PROCUREMENT, NAVY

Appropriations, 2018	\$7,941,018,000 9,414,355,000
Committee recommendation	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

	[Dollars in thousands]	usands]					
			400 bud of		Committee	Change from	from
Line	Item	Oty.	2019 budget estimate	aty.	recommendation	Qtý.	Budget estimate
	OTHER PROCUREMENT, NAVY						
	SHIPS SUPPORT EQUIPMENT						
	SHIP PROPULSION EQUIPMENT SURFACE POWER EQUIPMENT		19,700		19,700		
က	GENERATORS SURFACE COMBATANT HM&E		23,495		23,495		
4	nayigation equipment Other navigation equipment		63,330		69,330		+ 6,000
ц	PERISCOPES SUPPORT EQUIPMENT PROGRAM		178,421		178,421		
9 8 6	OTHER SHIPBOARD EQUIPMENT DDG MOD FIREGENTING EQUIPMENT COMMAND AND CONTROL SWITCHBOARD HAALHD MIDLIF		487,999 28,143 2,248 37,694		469,499 28,143 2,248 37,694		-18,500
	SUBTOTAL		37,694		37,694		
9:			20,883		20,883		
12	OSDIMANINE, SUI POLI EXCII MENTI VEC CA ACC CUIDDOST ENLIDAKENT		66,328		66,328		
14	SUBMARINE BATTERIES		27,987		25,085		-2,902
15	LPD CLASS SUPPORT EQUIPMENT		65,033		65,033 57,700		-32,000
17	STRATEGIC PLATFORM SUPPORT EQUIP		22,254		22,254		
2 0	DSSP EQUIPMENT		276,446		276,446		
20	UNDSEN MUDELNINGALION		3,709		3,709		
21	UNDERWATER EOD PROGRAMS		78,807		78,807		
23	ITEMS LESS THAN \$5 MILLION CHEMICAL WARFARE DETECTORS		2,966		2,966		

STATE SUPPORT SYSTEM   11,566   6,324   -5,044   -5,044   -6,040									11	7									
SUBMANNE LIFE SUPPORT SYSTEM   11,968   6,924   12,068	- 5,044					+176,000	-7,766	-57,294 $-11,941$		000 010	000'0To +	+610,000	+ 643,058		-1,130	+14,000			- 8,300 + 406,900
SUBNAMINE LIFE SUPPORT SYSTEM   11,568   11,56																			
SUBMARINE LIFE SUPPORT SYSTEM   11,968	6,924	346,325 497,063	10,706	127 20		401,181	116,381	14,065	976,07	4,784	200,000	614,784	3,823,594		19,179 115,459	332,189	101	23,815	2,9/7 644,680 57,872
REACTOR PLANT EQUIPMENT REACTOR POWER UNITS REACTOR POWER UNITS REACTOR POWER UNITS REACTOR COMPONENTS OCEAN ENGINEERING DIVING AND SALVAGE EQUIPMENT SMALL BOATS STANDARD SALVAGE EQUIPMENT LCS COMMON MISSION MODULES LCS SASY MISSION MODULES LCS SAN MISSION MISSION MODULES LCS SAN MISSION MODULES LCS SAN MISSION	-																		
SUBMARINE LIFE SUPPORT SYSTEM  REACTOR POWER UNITS  OCEAN ENGINEERING DIVING AND SALVAGE EQUIPMENT  STANDARD BOATS  STANDARD BOATS  PRODUCTION FACILITIES EQUIPMENT  COFEMATING FORCES IPE  OTHER SHIP SUPPORT  LCS COMMON MISSION MODULES  LCS SUPPORT  LCS SUBMARISON MODULES  LCS SUPPORT  LCS SUPPORT  LOS SUPPORT  LOS SUPPORT  LOS SUPPORT  LOS SUPPORT  LOGISTICS SUPPORT  LOGISTICS SUPPORT  LOGISTICS SUPPORT  LOGISTICS SUPPORT  LOGISTICS SUPPORT  LOGISTICS SUPPORT  SHIP SOFT  TOTAL, SHIPS SUPPORT EQUIPMENT  SUBMANUCATIONS  SPC-98 RADAR  ANSQQ-89 SURF ASIV COMBAT SYSTEM  SSTD  HINDENSEA WARFARE SUPPORT EQUIPMENT  SUBMARINE ACOUSTIC WARFARE SYSTEM  SURTASS  STD  FIRED SURVEILLANCE SYSTEM  SSTD  FIRED SURVEILLANCE SYSTEM  SSTD	11,968	346,325 497,063	10,706	49.771	205 101	46.732	124,147	26,006	070'0	4,784		4,784	3,180,536		20,309 115,459	318,189		23,815	237,780
SUBMARINE LIFE SUPPORT SYSTEM REACTOR POWER UNITS REACTOR COMPONENTS OCEAN ENGINEERING DIVING AND SALVAGE EQUIPMENT SMALL BOATS STANDARD BOATS COUNTIES EQUIPMENT TOTAL SHIP SUPPORT EQUIPMENT TOTAL, SHIPS SUPPORT EQUIPMENT SUBTOTAL SOMMUNICATIONS AND ELECTROMICS STANDS SUBFASE SUPPORT EQUIPMENT SUBMARINE ACOUSTIC WARFARE SYSTEM STANDARD SOURT SYSTEM STANDARD SOURT SYSTEM STANDARD STANDARD SOURT SYSTEM																			
24 25 26 26 27 27 29 33 33 33 34 40 41 41 41 42 44		25 REACTOR COMPONENTS 26 REACTOR COMPONENTS	OCEAN ENCINEERING 27 DIVING AND SALVAGE EQUIPMENT	SMALL BOATS 28 STANDARD BOATS		OTHER SHIP SUPPORT LCS COMMON MISSION MODULES EQI	LCS ASW MISSION MODULES	LCS SUW MISSION MODULES	LOGISTICS SUPPORT	SHIP OVERHAUL, MODERNIZATION AN	SUBTOTAL	TATAL ALIBA ALEGAS	MENT EQUIPIMENT	SHIP SONARS SPO-98 RADAR	ANSQQ-89 SURF ASW COMBAT SYSTEM SSN ACOUSTICS FOURDMENT	UNDERSEA WARFARE SUPPORT EQUIPMENT	ASW ELECTRONIC EQUIPMENT SUBMARINE ACQUISTIC WARFARE SYSTEM	SSTD	FIXED SURVEILLANCE SYSTEM SURTASS

	from	Budget estimate	-72,078	- 2,780	- 9,352	-2,370			-23,083	-3,060	
	Change from	Oth.									
	Committee	recommendation	348,266	218,103 4,028	34,821 10,991 34,526	3,769 33,339 8,616	10,703 2,626 9,467	70,849 47,890 26,163 38,094 11,966	42,010 12,896 399,944	8,1/5 51,405 5,985 5,985 5,413	6,251 4,183 148,350
		Oly.									
	2010 hudget	estimate	420,344	220,883	44,173 10,991 34,526	3,769 35,709 8,616	10,703 2,626 9,467	70,849 47,890 26,163 38,094	42,010 12,896 423,027	8,175 54,465 5,985 5,413	6,251 4,183 148,350
onsands]		Qty.									
[Dollars in thousands]		item	ELECTRONIC WARFARE EQUIPMENT ANSLQ-32	RECONNAISSANCE EQUIPMENT 46 SHIPBOARD IW EXPLOIT 47 AUTOMATED IDENTIFICATION SYSTEM (AIS)	OTHER SHIP ELECTRONIC EQU COOPERATIVE ENGAGEMENT C NAVAL TACTICAL COMMAND S	50 ARUDS. 51 NAVY COMMAND AND CONTROL SYSTEM [INCGS] 52 MINESWEEPING SYSTEM REPLACEMENT	NAVSTAR GPS RECEIVERS (SP ARMED FORCES RADIO AND T STRATEGIC PLATFORM SUPPOI	AVAITION ELECTRONIC EQUIPMENT ASHORE ATC EQUIPMENT S8 AFLOAT ATC EQUIPMENT 59 ID SYSTEMS 60 JOINT PRECISION ANALOGY 61 ANALOGY 62 ANALOGY 63 ANALOGY 64 ANALOGY 65 ANALOGY 65 ANALOGY 66 ANALOGY 67 ANALOGY 68 ANALOGY 69 ANALOGY 69 ANALOGY 69 ANALOGY 69 ANALOGY 69 ANALOGY 60 AN		RADIAC CANES-INTELL GPETE	69 INTEG COMBAT SYSTEM TEST FACILITY 70 EMI CONTROL INSTRUMENTATION
		Line	4	4 4	44,	വ്വവറ	വവവ	00000	ა დდდ	~ ~ ~ ~ ~	

								1	19									
								+2,800		+301,547		+38,300				000	- 2,346 - 7,226	+28,726
	45,450	41,123	30,897	78,580	113,885	4,292	153,526 951	17,009	40,713	3,477,852		216,191	93,864	11,054	656	37.026	28,179	531,659
			30,897		113,885	4,292	153,526 951	14,209	40,713	3,176,305		177,891	93,864	21,054	656 11,299	594 39,374	35,405	502,933
SHIPBOARD COMMINICATIONS	_	SUBMARINE COMMUNICATIONS	_		SHORE COMMUNICATIONS JCS COMMUNICATIONS EQUIPMENT		WILD INTEL EXPLOITATION TEAM	OTHER ELECTRONIC SUPPORT COAST GUARD EQUIPMENT	TOTAL COMMINICATIONS AND ELECTRONING FOLLOWS	AVIATION SUPPORT EQUIPMENT	SONOBLOYS SONOBLOYS—ALL TYPES	AIRCRAFT SUPPORT EQUIPMENT WEAPONS RANGE SUPPORT EQUIPMENT	AIRCRAFT SUPPORT EQUIPMENT ADVANCED ARRESTING GEAR (AAG)	OTHE ENOTOGRAPHIC EQUIPMENT (DCRS/DPL)	AIRBURNE MINE COUNTERWEASURES		TOTAL, AVIATION SUPPORT FOILIPMENT	THE CONTROL OF THE CO
2 n i	73	75	76	77	79	80	82	98			80	_	6 6 8				_	

							12	0			
	mon.	Budget estimate			- 11,019				- 2,634	- 13,653	
	Change from	Qty.									
	i	Committee recommendation		5,337	202,071 92,890	271,817	129,501 19,436	14,258	65,543 227,791	1,034,022	4,867 2,674 20,994 17,189 19,916 7,400 2,713 35,540 1,155
		cts.									
		2019 budget estimate		5,337	213,090 92,890	271,817	129,501 19,436	14,258 5,378	65,543 230,425	1,047,675	4,867 2,674 20,994 17,189 19,916 7,400 2,713 35,540 1,155
usands]		Otty.									
[Dollars in thousands]		ІІвт	ORDNANGE SUPPORT EQUIPMENT	SHIP GUN SYSTEM EQUIPMENT SHIP GUN SYSTEMS EQUIPMENT	SHIP MISSILE SYSTEMS EQUIPMENT SHIP MISSILE SUPPORT EQUIPMENT TOMAHAWK SUPPORT EQUIPMENT	FBM SUPPORT EQUIPMENT STRATEGIC MISSILE SYSTEMS EQUIP	ASW SUPPORT EQUIPMENT 2 SSN COMBAT CONTROL SYSTEMS	OTHER ORDNANCE SUPPORT EQUIPMENT  EXPLOSIVE ORDNANCE DISPOSAL EQUIP  TIEMS LESS THAN \$5 MILLION	OTHER EXPENDABLE ORDNANCE 6 SUBMARINE TRAINING DEVICE MODS 7 SIREACE TRAINING FOULDMENT	TOTAL, ORDNANCE SUPPORT E	CIVIL ENGINEERING SUPPORT EQUIPMENT  ORNSTRUCTION & MANTENANCE EQUIP  111 FIRE FIGHTING EQUIPMENT  112 TACTICAL VEHICLES  AMPHIBIOUS EQUIPMENT  113 AMPHIBIOUS EQUIPMENT  114 FIRE SUBJUST EQUIPMENT  115 FIRE SUBJUST EQUIPMENT  116 PHYSICAL SECURITY VEHICLES  117 TEMS UNDER \$\$ MILLION  118 FIREMS UNDER \$\$ MILLION  119 FIREMS UNDER \$\$ MILLION  110 FIREMS UNDER \$\$ MILLION  110 FIREMS UNDER \$\$ MILLION  111 FIREMS UNDER \$\$ MILLION  112 FIREMS UNDER \$\$ MILLION  113 FIREMS UNDER \$\$ MILLION  114 FIREMS UNDER \$\$ MILLION  115 FIREMS UNDER \$\$ MILLION  116 FIREMS UNDER \$\$ MILLION  117 FIREMS UNDER \$\$ MILLION  118 FIREMS UNDER \$\$ MILLION  119 FIREMS UNDER \$\$ MILLION  110 FIREMS UNDER \$\$ MILLION  110 FIREMS UNDER \$\$ MILLION  111 FIREMS UNDER \$\$ MILLION  112 FIREMS UNDER \$\$ MILLION  113 FIREMS UNDER \$\$ MILLION  114 FIREMS UNDER \$\$ MILLION  115 FIREMS UNDER \$\$ MILLION  116 FIREMS UNDER \$\$ MILLION  117 FIREMS UNDER \$\$ MILLION  118 FIREMS UNDER \$\$ MILLION  119 FIREMS UNDER \$\$ MILLION  110 FIREMS UNDER \$\$ MILLION  110 FIREMS UNDER \$\$ MILLION  111 FIREMS UNDER \$\$ MILLION  112 FIREMS UNDER \$\$ MILLION  113 FIREMS UNDER \$\$ MILLION  114 FIREMS UNDER \$\$ MILLION  115 FIREMS UNDER \$\$ MILLION  116 FIREMS UNDER \$\$ MILLION  117 FIREMS UNDER \$\$ MILLION  118 FIREMS UNDER \$\$ MILLION  119 FIREMS UNDER \$\$ MILLION  110 FIREMS UNDER \$\$ MILLION  110 FIREMS UNDER \$\$ MILLION  111 FIREMS UNDER \$\$ MILLION  111 FIREMS UNDER \$\$ MILLION  112 FIREMS UNDER \$\$ MILLION  113 FIREMS UNDER \$\$ MILLION  114 FIREMS UNDER \$\$ MILLION  115 FIREMS UNDER \$\$ MILLION  116 FIREMS UNDER \$\$ MILLION  117 FIREMS UNDER \$\$ MILLION  118 FIREMS UNDER \$\$ MILLION  119 FIREMS UNDER \$\$ MILLION  110 FIREMS UNDER \$\$ M
		92		86	66	101	102	104	106	2	108 109 110 111 112 113 114 115

							1	21				
								+ 20,000		+20,000		+ 979,207
	18,786 5,375 580,371	604,532	3,400	24,283	66,681	1,984	3,576	195,436 25,393	96,269	467,407	15,681	10,393,562
	18,786 5,375 580,371	604,532	3,400	24,283	66,681	1,984	3,576	175,436	607'96	326,838	15,681	9,414,355
SUPPLY SUPPORT EQUIPMENT SUPPLY SUPPL	FIRST DE SPECIAL	IOTAL, SUPPLY SUPPORT EQUIPMENT	TRAINING DEVICES 120 TRAINING SUPPORT EQUIPMENT 121 TRAINING AND EDUCATION EQUIPMENT	COMMAND SUPPORT EQUIPMENT COMMAND SUPPORT EQUIPMENT	MEDICAL SUPPORT EQUIPMENT  NAVAL MIP SUPPORT EQUIPMENT	OPERATING FORCES SUPPORT EQUIP	ENVIRONMENTAL SUPPORT EQUIPMENT PHYSICAL SECURITY FOLIPMENT		TOTAL, PERSONNEL AND COMMAND SUPPORT EQUIPMENT	SPARES AND REPAIR PARTS CLASSIFIED PROGRAMS	TOTAL, OTHER PROCLIPEMENT NAVY	I MATERIAL TO CONTENE TO THE TOTAL THE TOTAL TO THE TOTAL THE TOTAL TO THE TOTAL TH
			12	12	12 12	126 127	128	130		134		

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# COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

ne	ltem	2019 budget estimate	Committee recommendation	Change from budget estimate
4	Other Navigation Equipment	63,330	69,330	+6,000
	gineering excess growth			<b>-4,00</b> 0
- 1	implementation			+ 10,000
6	DDG Mod	487,999	469,499	-18,500
١	Insufficient budget justification: Aegis modernization testing			- 9,50
- 1	Insufficient budget justification: Combat system ship		4	-9.00
		27.007	25,085	- 2,90 - 2,90
14	Submarine Batteries	27,987	23,003	2,50
	Restoring acquisition accountability: Unit cost			-2,90
	£1041(11	89,700	57,700	- 32.00
16	DDG 1000 Class Support Equipment	03,700	01,700	,
	Restoring acquisition accountability: DDG 1002 data			- 32,00
	center ahead of need	11,968	6,924	- 5,04
24	Submarine Life Support System	11,000	-,	
	electrolyzer early to need		***************************************	-5,04
20	Operating Forces Ipe	225,181	401,181	+ 176,00
29	Program increase: Shipyard investment acceleration			+ 176,0
31	LCS Common Mission Modules Equipment	46,732	33,237	- 13,4
21	Restoring acquisition accountability: EMM mission			
	nackage computing environment ahead of need		,,	-8,9
	Restoring acquisition accountability: EMM training			4.5
	equipment ahead of need			- 4,5
32	LCS MCM Mission Modules	124,147	116,381	-7,7
	Restoring acquisition accountability: AMNS unit cost			-3,0
	growth	***************************************	***************************************	- 3,0
	Restoring acquisition accountability: Knifefish unit			-4,7
	cost growth	57,294		- 57,2
33	LCS ASW Mission Modules	37,234		0,,=
	Restoring acquisition accountability: ASW mission			-57.2
	modules ahead of need	26,006	14,065	-11,9
34	LCS SUW Mission Modules	20,000	- ,,	
	to surface mission module ahead of test			-11,9
	land of the transfer and Donois	***************************************	610,000	+610,0
XX	Transfer: From Operation and Maintenance, Navy line			
	1B4B Ship Depot Maintenance for the USS BOISE,			
	USS NEW YORK and USS GUNSTON HALL avail-			
	abilities		10.170	+ 610, -1.
37	SPQ-9B Radar	20,309	19,179	-1,
	Restoring acquisition accountability: Installation			-1.
	funding early to need	318,189	332,189	+ 14.
39	SSN Acoustic Equipment		332,103	+ 14,
	Program increase	11,277	2,977	-8,
42	SSTD	11,277	2,511	
	Restoring acquisition accountability: AN/SLQ-25E			-8,
	delay	237,780		+ 406
43	Fixed Surveillance System			+ 406
A		420,344		
4.	Restoring acquisition accountability: Excess Block 3			
	systems			-60
	Restoring acquisition accountability: Excess Block 3			1
	installation funding			
	6 Shipboard IW Exploit	220.883	218,103	- 2

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#### [In thousands of dollars]

Line	ltem	2019 budget estimate	Committee recommendation	Change from budget estimate
	Restoring acquisition accountability: Increment F kit cost growth			- 2,78
48	Cooperative Engagement Capability	44,173	34,821	- 9,35
52	Minesweeping System Replacement	35,709	33,339	- 9,352 - 2,370
64	CANES Restoring acquisition accountability: Installations	423,027	399,944	2,370 23,083
66	CANES—Intell	54,465	51,405	- 23,083 - 3,060
82	Cryptologic Communications Equip	14,209	17,009	-3,060 +2,800 +2,800
88	Sonobuoys—All Types	177,891	216,191	+ 38,300 + 38,300
96	Aviation Support Equipment	39,374	37,026	<b>- 2,348</b>
97	UMCS-Unman Carrier Aviation (UCA) Mission Cntrl	35,405	28,179	- 2,348 - 7,226
	Restoring acquisition accountability: Ship change document ahead of need			- 3,742 - 3,484
99	Ship Missile Support Equipment	213,090	202,071	-11,019 -4.619
	Restoring acquisition accountability: RAM ORDALTs			-4,013 -6.400
107	Surface Training Equipment		227,791	- 2,634 - 2,634
129	Physical Security Equipment	175,436	195,436	+20,000
134	Spares and Repair Parts	326,838	326,367	+ 20,000 471 471

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### 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

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Item	į	2019 budget		Committee	Chang	Change from
	diy.	estimate	ÇÎ.	recommendation	Otty.	Budget
PROCUREMENT, MARINE CORPS						
WEAPONS AND COMBAT VEHICLES						
TRACKED COMBAT VEHICLES						
AMPHIBIOUS COMBAT VEHICLE 1.1	30	156,249	30	96,836 167,478		- 59,413
ARTILLERY AND OTHER WEAPONS		43,701		43,701		
155MM LIGHTWEIGHT TOWED HOWITZER ARTILLERY WEAPONS SYSTEM		47,158		47,158		
WEAPONS AND COMBAT VEHICLES UNDER \$5 MILLION		134,246		134,246		
OTHER SUPPORT		40,007		40,687		
WUDITICATION KILS		22,904		22,904		
TOTAL, WEAPONS AND COMBAT VEHICLES		619 493		010		
GUIDED MISSILES AND EQUIPMENT		031,210		010,600		- 59,413
GUIDED MISSILES						
GROUND BASED AIR DEFENSE JAVELIN		18,334		18,334		
FOLLOW ON TO SMAW/FOAAWS	S.	3,020	ς,	3,020		
AINTI-AKWUK WEAPUNS SYSTEM-HEAVY (AAMS-H)/TOW		59,702		59,702		
TOTAL, GUIDED MISSILES AND EQUIPMENT		94 816		210 00		
COMMUNICATIONS AND ELECTRONICS EQUIPMENT				010'66		
COMMAND AND CONTROL SYSTEMS COMMON AVIATION COMMAND AND CONTROL SYS		25, 257		, c		
		Ď.		33,467		
		46,081		46,081		
	***************************************	9/1		971		

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

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				127		
						- 59,413
652,777	496 54 21,062 5,290	47,854	33,513 52,040 36,156 606	11,608	236,985 25,804 3,626	2,800,997
652,777	496 54 21,062 5,290	47,634	33,513 52,040 36,156 606	11,608	236,985 25,804 3,626	2,860,410
TOTAL, SUPPORT VEHICLES	ENCINEER AND OTHER EQUIPMENT 41 ENVIRONMENTAL CONTROL EQUIP ASSORT 42 TACTICAL FUEL SYSTEMS 43 POWER EQUIPMENT ASSORTED 44 AMPHIBIOUS SUPPORT EQUIPMENT 45 EOD SYSTEMS	MATERIALS HANDLING EQUIPMENT 46 PHYSICAL SECURITY EQUIPMENT GENERAL PROPERTY	47 FIELD MEDICAL EQUIPMENT 48 TRAINING DEVICES 49 FAMILY OF CONSTRUCTION EQUIPMENT 50 FAMILY OF INTERNALLY TRANSPORTABLE VEHICLE (ITV)	51 ITEMS LESS THAN \$5 MILLION	53 SPARES AND REPAIR PARTS CLASSIFIED PROGRAMS	TOTAL, PROCUREMENT, MARINE CORPS

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### COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

#### [In thousands of dollars]

Line	ltem	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.

#### 129

### 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

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	(Dollars in thousands)	usands]					
			1-1-1-0-00		- Control of the cont	Change from	from
<u>e</u>	Item	aty.	ZU19 budger estimate	Otty.	recommendation	aty.	Budget estimate
	AIRCRAFT PROCUREMENT, AIR FORCE						
	COMBAT AIRCRAFT						
	TACTICAL FORCES	88	4 261 021	87	4 021 021		- 240 000
3 2 -	F-35 [AP-CV]	2	406,000 222,176	2	526,000 222,176		+ 120,000
	RATT.		4,889,197		4,769,197		- 120,000
4	AIRLIFT AIRCRAFT/TACTICAL AIRLIFT RC-46A TANKER	15	2,559,911	15	2,415,491		- 144,420
			0 11		с. Оп		
ი 9	C-130J		129,437		86,981		-42,456
00		9	770,201	9	727,879		- 42,322
6	-		218,000		218,000		
	TOTAL, AIRLIFT AIRCRAFT		3,713,407		3,484,209		-229,198
	OTHER AIRCRAFT						
Ξ	HELICOPTERS COMBAT RESCUE HELICOPTER	10	680,201	10	630,201		- 50,000
13	MISSION SUPPORT AIRCRAFT CIVIL AIR PATROL A/C	4	2,719	4	10,800		+ 8,081
7		48	139,053	48	139,053		
: 22 :	CONPASS CALL MODS	, «	108,113	1 7	108,113	+	+34.196
18	MK-2 0/A-X LIGHT ATTACK AIRCRAFT				300,000		+ 300,000
	TOTAL, OTHER AIRCRAFT		1,151,793		1,444,070		+292,277

			131			
	- 3,101 - 15,600 + 11,711	- 6,010 - 10,831 - 91,462 - 20,000 - 90,300 + 50,000	-6,010		- 9,700 + 125,000 - 4,611 - 21,666	
	57,200 35,690 117,230	92,710 456,847 304,323 250,710 156,971 197,685	8,547 71,835 102,121 17,516 4,537 419	137 22,550 21,952 70,623	48,774 11,104 4,000 27,238 251 147,094 127,434 127,434 91,410 91,410 5,885 49,885	
	60,301 51,290 105,519	98,720 10,831 548,109 324,323 256,710 247,271 147,685 9,007	6,347 77,845 102,121 17,516 4,537 419	137 22,550 21,952 70,623	48,774 11,104 4,900 36,938 25,094 122,094 113,076 5,913 49,885	
MODIFICATION OF INSERVICE AIRCRAFT			ARLIFT AIRCRAFT C-5 C-17A C-32A C-37A TRAINER AIRCRAFT GLIDER MODS	76 1-1 1-38 0THER AIRCRAFT U-2 MODS	KC-104 (ATCA) C-12 C-12 C-24 MOD C-130 MODS C-138 C-138 COMPASS CALL MODS COMBAT FLIGHT INSPECTION (CFIN)	
	19 20 21	23 27 27 27 29 30 31 33	34 36 37 38 39 41	42 43 44 45	46 47 47 47 49 55 52 53 53 54 55	

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- 7	٠,	٠,
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	(Dollars in thousands)	sands]					
					-	Change from	rom
Line	Item	aty.	2019 budget estimate	Otty.	Committee	aty.	Eudget estimate
			394 532		391,532		-3,000
29	RC-135		133,906		116,865		-17,041
22	F-3		67,858		67,858		1.1.4.882
200			9,919		57,780		000167
8 8	AIRBORNE WARNING AND CONTROL SYSTEM		14 293	က	11,283		-3,010
19	FAMILY OF BEYOND LINE—OF—SIGHT TERMINALS	>	2,940		2,940		
3 2	H-1.		55,466		55,466		+ 100.000
64	_		23,/15		37.754		
65	_		62 010		62,010		
99	OTHER AIRCRAFT		171,548		146,648		-24,900
67	MQ-9 MODS		60,416		60,416		
n D	TOTAL MODIFICATION OF INSERVICE AIRCRAFT		3,697,629		3,671,986		-25,643
70	AIRCRAFT SPARES AND REPAIR PARTS INITIAI SPARES/REPAIR PARTS		956,408		778,508		-177,900
2	OTOMO CINCIO CIN		956,408		778,508		-177,900
	IOIAL, AIRCRAFI SPARES AND NETAIN TANIS						
	AIRCRAFT SUPPORT EQUIPMENT AND FACILITIES						
7.1	COMMON SUPPORT EQUIPMENT AIRCRAFT REPLACEMENT SUPPORT EQUIP		81,241		81,241		
			1 763		1,763		
74	B-2A		35,861		35,861		
75	B-2B		12,819		12,819		
76	B-52		10,114		10,114		
7 02			2,545		2,545		-7 200
81	F-16 POST PRODUCTION SUP		11,/18		14,489		2
82	F-22A		9,928		9,928		
8	OTHER AIRCRAFT		40,641		40,641		
84	1 RQ-4 POST PRODUCTION CHARGES						

	INDISTRIAL PREPARENTESS				
	SCHIEF THE WILDINGS				
98	86 INDUSTRIAL PREPAREDNESS	17.378	17 378		
	WAR CONSUMABLES		0.00		
80	88 WAR CONSUMABLES	278 66	00 040		
	OTHER PRODUCTION CHARGES	1	740'27		
83	89 OTHER PRODUCTION CHARGES	 1,502,386	1,335,586		-166.800
	TOTAL, AIRCRAFT SUPPORT EQUIPMENT AND FACILITIES	ממט מכד ד			
	CLASSIFIED DROCDAMS	1,770,223	1,596,225		-174,000
	UZAGILLE TRUGARAMO	28,278	28,278		
	TOTAL, AIRCRAFT PROCUREMENT, AIR FORCE	16.206.937	15 779 479		100
			 0/4/7//07	***************************************	1 4.14 4h4

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:  $\ensuremath{\mathsf{Committee}}$ 

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[In thousands of dollars]

ne	ltem	2019 budget estimate	Committee recommendation	Change from budget estimat
1	F-35	4,261,021	4,021,021	- 240,00 - 240.00
2	Restoring acquisition accountability: Unit cost savings F-35 [AP-CY]	406,000	526,000	+ 120,00
4	FY 2020 aircraftKC-46A Tanker	2,559,911	2,415,491	+ 120,00 144,42
	Restoring acquisition accountability: Unit cost savings Improving funds management: Interim contractor sup-			-41,70
6	port excess to need	129,437	86,981	— 102,72 — 42,45
U	Restoring acquisition accountability: Unit cost growth Restoring acquisition accountability: Spares funding			- 11,0 - 31,4
8	ahead of need	770,201	727,879	- 42,3 - 42,3
11	Restoring acquisition accountability: Unit cost growth Combat Rescue Helicopter	680,201	630,201	- 50,0 - 50,0
13	Restoring acquisition accountability: Excess unit cost Civil Air Patrol A/C	2,719	10,800	+ 8,0 + 8,0
17	Program increase	221,707	255,903	+ 34,1
	Program increase: Accelerate advanced battle manage- ment system			+ 120,0
	Restoring acquisition accountability: Prior year unit cost savings			- 5,6
	Restoring acquisition accountability: Dual ground control station funding excess to need		300,000	- 80,1 + 300,0
18	O/A—X Light Attack Aircraft Program increase: Procurement of aircraft and long lead			+ 300,0
19	materials	60,301	57,200	-3,1
20	Restoring acquisition accountability: Common very low frequency terminal installations previously funded	51,290	35.690	-3,3 -15,6
20	Restoring acquisition accountability: Integrated battle station excess to need	01,200		-9.
	Restoring acquisition accountability: MIDS-JTRS ahead of need			-3,
	Restoring acquisition accountability: Radio crypto ahead of need			-1,
	Restoring acquisition accountability: ADS-B out ahead of need			-1,
21	B-52	105,519	117,230	+ 11, + 10,
	Program increase: LRASM certification Program increase: B-52 infrared threat defense UON			+ 16, + 5,
	Program increase: B-52 mission data recorder			-14,
	Restoring acquisition accountability: Bomber tactical data link ahead of need			-2,
	Restoring acquisition accountability: Airspace compli-			-1,
23		98,720	92,710	-6, -6,
24		10,831		$-10 \\ -10$
25	F-15 Program increase: ALQ-128	548,109		- 91 + 10
	Restoring acquisition accountability: APG-82 unit cost growth		<u></u>	-6

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[In thousands of dollars]

Item	2019 budget estimate	Committee recommendation	Change from budget estimat
Restoring acquisition accountability: APG-82 ICS excess			- 10,00
Restoring acquisition accountability: APG-82 installation	***************************************	***************************************	- 6,53
Restoring acquisition accountability: APG-63 ahead of	***************************************		- 69,13
Restoring acquisition accountability: APG-63 installation		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
F-16	324,323	304,323	— 9,48 — 20,00
growth	247 271	156 071	- 20,00 - 90,30
Maintain program affordability: Concurrency growth			- 90,30
Program increase: Eagle passive active warning surviv-			+ 50,00
C-5	77,845	71,835	+ 50,00 6,01
radar contract delay			-6,01
Restoring acquisition accountability: Chiller replacement			- 9,70
C-130	22,094	147,094	-9,70 +125,00
C-130J Mods	132,045	127,434	+ 125,00 - 4,61
cost growth			-4,61
Restoring acquisition accountability: AERO-I satcom re-	,	,	-21,66
RC-135	394,532	391,532	21,66 3,00
funding excess to need			- 3,00
Restoring acquisition accountability: Electronic protec-	.		17,04
E-8	9,919	24,807	- 17,04 + 14,88
RDAF line 213		11 202	+ 14,888 - 3,010
Restoring acquisition accountability: FAB—T unit cost		.	-3,010 -3.010
RQ-4 Mods	23,715	123,715	+ 100,000
node mission			+ 100,000
Restoring acquisition accountability: GCS block 30 up-		1	- 24,900
Initial Spares/Repair Parts	956,408	778,508	- 24,900 - 177,900
requirement			- 133,000
			- 29,500
	11.718		- 15,400 - 7,200
		4,510	- 7,200
	Restoring acquisition accountability: APG-82 installation cost growth Restoring acquisition accountability: APG-63 ahead of need Restoring acquisition accountability: APG-63 installation cost growth F-16 Restoring acquisition accountability: MIDS-JITRS excess growth F-35 Modifications Maintain program affordability: Concurrency growth F-15 EPAW Program increase: Eagle passive active warning survivability systems for F-15Cs C-5 Restoring acquisition accountability: CMC and weather radar contract delay VC-25A Mod Restoring acquisition accountability: Chiller replacement terminated C-130 Program increase: C-130H modernization C-130J Mods Restoring acquisition accountability: Block 8.1 b kit unit cost growth C-135 Restoring acquisition accountability: Combat sent install funding excess to need E-3 Restoring acquisition accountability: Combat sent install funding excess to need E-8 Transfer common data link: Air Force requested from RDAF line 213 Family of Beyond Line-of-Sight Terminals Restoring acquisition accountability: FAB-T unit cost growth RQ-4 Mods Program increase: Battlefield airborne communication node mission MQ-9 Mods Restoring acquisition accountability: GCS block 30 upgrades excess to need Initial Spares/Repair Parts Improving funds management: F-15 spares excess to requirement Improving funds management: E-3 spares excess to requirement	Restoring acquisition accountability: APG-82 installation cost growth Restoring acquisition accountability: APG-63 ahead of need Restoring acquisition accountability: APG-63 installation cost growth F-16. Restoring acquisition accountability: MIDS-JITRS excess growth F-35 Modifications Maintain program affordability: Concurrency growth F-15 EPAW Program increase: Eagle passive active warning survivability systems for F-15Cs C-5 Restoring acquisition accountability: CMC and weather radar contract delay VC-25A Mod Restoring acquisition accountability: Chiller replacement terminated C-130 Program increase: C-130H modernization C-130 Mods Restoring acquisition accountability: Block 8.1 b kit unit cost growth C-135 Restoring acquisition accountability: AERO-I satcom replacement ahead of need RC-135. Restoring acquisition accountability: Combat sent install funding excess to need E-3 Restoring acquisition accountability: Electronic protection excess to need E-8 Transfer common data link: Air Force requested from RDAF line 213 Family of Beyond Line-of-Sight Terminals Restoring acquisition accountability: FAB-T unit cost growth RQ-4 Mods Restoring acquisition accountability: GCS block 30 upgrades excess to need Initial Spares/Repair Parts Improving funds management: KC-46A spares excess to requirement Improving funds management: F-15 spares excess to requirement	Restoring acquisition accountability: APG-82 installation cost growth Restoring acquisition accountability: APG-63 ahead of need Restoring acquisition accountability: APG-63 installation cost growth F-16 Restoring acquisition accountability: MIDS-JITRS excess growth F-35 Modifications Maintain program affordability: Concurrency growth F-35 Modifications Maintain program affordability: Concurrency growth F-35 Modifications Program increase: Eagle passive active warning survivability systems for F-15Cs C-5 Restoring acquisition accountability: CMC and weather radar contract delay VC-25A Mod Restoring acquisition accountability: Chiller replacement terminated C-130 Meds Restoring acquisition accountability: Chiller replacement terminated C-130 Mods Restoring acquisition accountability: Block 8.1 b kit unit cost growth C-135 Restoring acquisition accountability: AERO-I satcom replacement ahead of need RC-135 Restoring acquisition accountability: Combat sent install funding excess to need E-3 Restoring acquisition accountability: Electronic protection excess to need E-8 Restoring acquisition accountability: Electronic protection excess to need E-8 Restoring acquisition accountability: FAB-T unit cost growth RQ-4 Mods Program increase: Battlefield airborne communication node mission MQ-9 Mods Restoring acquisition accountability: GCS block 30 upgrades excess to need Inproving funds management: F-15 spares excess to requirement Improving funds management: F-15 spares excess to requirement Improving funds management: F-3 spares excess to requirement Improving funds management: F-15 spares excess to requirement Improving funds management: F-3 spares excess to requirement Improving funds management: F-3 spares excess to requirement

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 June 25, 2018 (2:28 p.m.)

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.

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### 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

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			2010 budget		Committee	Change from	from
	ltem	Oty.	estimate estimate	Qty.	recommendation	Qty.	Budget estimate
	MISSILE PROCUREMENT, AIR FORCE						
	BALLISTIC MISSILES						
_	MISSILE REPLACEMENT EQUIPMENT—BALLISTIC MISSILE REPLACEMENT EQ-BALLISTIC		36,786		18,066		-18,720
	OTHER MISSILES						
O.I	TACTICAL JOINT AIR-SURFACE STANDOFF MISSILE [JASSM]	312	430,708	312	541,228		+110,520
m =	Long Range anti-ship missile (Lrasm) Sidewinder (aim-9x)	12 256	44,185 121,253	15 256	54,385 121,253	+3	+ 10,200
· O	AMRAAM	220	337,886	220	337,886		000
0 -	SWALL DIAMETER BOMB	2,917	105,034	2,917	35,034		- 70,000
00	SMALL DIAMETER BOMB II	210	100,861	210	100,861		
CD.	INDUSTRIAL FACILITIES INDUSTRIAL PREPAREDNESS/POLLUTION PREVENTION		787		787		
	TOTAL, OTHER MISSILES		1,254,479		1,225,199		-29,280
	MODIFICATION OF INSERVICE MISSILES						
0	CLASS IV ICBM FUZE MOD		15,767		15,767		
- 0			4,100 129,199		4,100 127,699		-1,500
m st			288 47,632		288 47,632		
	TOTAL, MODIFICATION OF INSERVICE MISSILES		196,986		195,486		-1,500
40	SPARES AND REPAIR PARTS INITIAL SPARES/REPAIR PARTS		97,481		97,481		
~	SPECIAL PROGRAMS SPECIAL LIPDATE PROGRAMS		188.539		183.539		- 5.000

895,183
1,083,722
INDE

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### COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Line	ltem	2019 budget estimate	Committee recommendation	Change from budget estimate
1	Missile Replacement Eq-Ballistic	36,786	18,066	— 18,72
	justments			- 18,72
2	Joint Air-Surface Standoff Missile	430,708	541,228	+110,520
	Improving funds management: Forward financing sup-			
	port costs			- 14,48
	Program increase			+ 125,00
3	LRASM	44,185	54,385	+10,20
	Program increase: Restore reduction	***************************************		+10,20
6	Predator Hellfire Missile	113,765	33,765	-80,00
	Improving funds management: Munitions funded in Pub-	,		,
	lic Law 115–141		***************************************	-50.00
	Improving funds management: Prior year carryover			-30.00
7	Small Diameter Bomb	105,034	35,034	-70,00
	Improving funds management: Munitions funded in Pub-	,	,	<i>'</i>
	lic Law 115–141			- 50.00
	Improving funds management: Prior year carryover			-20.00
12	MM III Modifications	129.199	127,699	-1.50
	Maintain program affordability: Unjustified program	==1,=00	,	
	management growth			- 1.50
18	Special Update Programs	188.539	183.539	- 5.00
	Classified adjustment		100,000	- 5,00

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### 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

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1							
			OLO budget		Onemillo	Change from	from
a	ltem	Otty.	estimate	aty.	recommendation	Otty.	Budget estimate
	SPACE PROCUREMENT, AIR FORCE						
	SPACE PROGRAMS						
_	ADVANCED EHF		29,829		59,829		
2	AF SATELLITE COMM SYSTEM		35,400		40,400		+ 5,000
m	COUNTERSPACE SYSTEMS		1,121		1,121		
4	FAMILY OF BEYOND LINE—OF—SIGHT TERMINALS		27,867		27,867		
2	WIDEBAND GAPFILLER SATELLITES		61,606		12,106		-49,500
9	GENERAL INFORMATION TECHNOLOGY—SPACE		3,425		3,425		
7	GPS III SPACE SEGMENT		69,386		986,986		
00	GLOBAL POSITIONING (SPACE)		2,181		2,181		
6	Integ broadcast serv		16,445	***************************************	16,445		
10	SPACEBORNE EQUIP (COMSEC)		31,895		31,895		
12	MILSATCOM TERMINALS		11,265		11,265		
13			709,981		615,081		94,900
14	EVOLVED EXPENDABLE LAUNCH VEH (SPACE)	2	994,555	4	830,555	ī	-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			148,065		148,065		
21	SPACELIFT 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

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### 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 + 5,000
5	Wideband Gapfiller Satellites (Space) Transfer to RDAF line 127: Pathfinder #5	61,606	12,106	- 49,500 - 49,500
13	Restoring acquisition accountability: STP-4 launch early	709,981	615,081	- 94,900
	to need			- 44,900
	Improving funds management: Historical underrun			-50,000
14	Restoring acquisition accountability: STP-4 launch early	994,555	830,555	- 164,000
	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

[Dollars in thousands]

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			2019 hindret		own:Hee	Change from	from
Line	ltem	Oth.	estimate	Oty.	recommendation	Oth.	Budget estimate
	PROCUREMENT OF AMMUNITION, AIR FORCE						
-	PROCUREMENT OF AMMO, AIR FORCE PROCURETS		345 011		344 031		1 000
2	CARTRIDGES		163,840		163,840		7000
ന	BOWBS PRACTICE BOWBS		20.876		20.876		
4	GENERAL PURPOSE BOMBS		259,308		259,308		
n c	MASSIVE ORDNANCE PENETRATOR (MOP)		38,111		38,111		
0 /	JUINT DIRECT ALLACK MUNITION	7,899	234,198	7,899	234,198		- 9.800
00	861		52,731		52,731		
c	FLARE, IR MJU-78		74		10		
10			6,038		6,038		
11	SPARES AND REPAIR PARTS		524		524		- 403
13			4,604		3,070		-1,534
7	FLARES/FUZES FLABES		195 986		105.026		
16	AZDI		109,358		99,691		<b>199'6</b> –
	TOTAL, PROCUREMENT OF AMMO, AIR FORCE		1,522,802		1,500,378		22,424
17	WEAPONS SMALL ARMS		64,502		64,505	***************************************	
	TOTAL, PROCUREMENT OF AMMUNITION, AIR FORCE		1,587,304		1,564,880		- 22,424

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# 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			- <b>423</b>
13	Items Less Than \$5,000,000	4,604	3,070	-1,534
	Insufficient budget justification: Items Less Than			1.50
	\$5,000,000			-1,534
16	Fuzes	109,358	99,691	<b>−</b> 9,667
	Restoring acquisition accountability: Unit cost discrep-			
	ancy and support cost growth (FMU-139 D/B)			<b>-</b> 9,667

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# OTHER PROCUREMENT, AIR FORCE

Appropriations, 2018	\$20,503,273,000
Budget estimate, 2019	
Committee recommendation	

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:

040 (0.00							
	[Dollars in thousands]	ousands]					
Line	mell	ā	2019 budget		Committee	Change from	from .
	Itorii	uty.	estimate	Oty.	recommendation	Oth.	Budget estimate
	OTHER PROCUREMENT, AIR FORCE						
	VEHICULAR EQUIPMENT						
-	Passenger Carrying Vehicles Passenger Carrying Vehicle		6 840		2		
	CARGO + UTILITY VEHICLES		0,343		b,949		
2 8	FAMILY MEDIUM TACTICAL VEHICLE		36,002		36,002		
4			1,022		1,700		+ 678
	SPECIAL PURPOSE VEHICLES				000,21		
റ എ	JOINT LIGHT FACIFICAL VEHICLE. SECURITY AND TACTICAL VEHICLES.		30,145		34,142		+3,997
7			1,230		1,230		± 12 005
00	fire fighting equipment fire fighting/crash rescue vehicles						15,00
			076'67		32,708		+ 9,380
6	_		11,537		21.125		4
10	Base Maintenance Support Runway Snow Removal & Cleaning Equip						
Ξ	ITEMS LESS THAN \$5M (BASE MAINTENANCE SUPPORT		ong'se		38,279		6/9+
∃			104,923	***************************************	104,923		
	TOTAL, VEHICULAR EQUIPMENT		338,435		374 762		T 36 397
	ELECTRONICS AND TELECOMMUNICATIONS EQUIP						70,00
12	COMM SECURITY EQUIPMENT(COMSEC) COMSEC EQUIPMENT		114 379		110 070		
7			710,411		7/6,011		+ 4,600
14			8,290		8,290		
15	INTELLIGENCE COMM EQUIP		37.415		27.033		

	[Dollars in thousands.	isands]					
			3-1-1-0100		- Himmer	Change from	from
ile.	Ifem	aty.	2019 buoget estimate	Otty.	recommendation	Othy.	Budget estimate
16	EIVER		57,937		42,937		- 15,000
22 22 23 23 23 23 23 23 23 23 23 23 23 2	BATILE CONTROL SYSTEM—PIXED THEATER AIR CONTROL SYSTEM WEATHER OBSERVATION FOREIGNS STRATEGIC COMMAND AND CONTROL CHEYENNE MOLIVIAIN COMPLEX MISSION PLANING SYSTEMS MISSION PLANING SYSTEMS		19,989 45,020 32,836 12,454 14,263 7,769		19,989 52,520 32,836 12,454 14,263 7,769		+7,500
26 28 29 29	SS PROJECTS HNOLOGY NATROL SYSTEM ONTROL		40,450 6,619 10,192 159,313		40,450 6,619 10,192 47,115		-112,198 +103,500
33 33	COMBAT I MAINING KANGED. MINIMUM ESSENITAL EMERGENCY COMM N MIDE AREA SURVEILLANCE (WAS)		132,973 140,875 92,104 45,152		140,875 140,875 92,104 45,152		
33.33	GCSS—AF FOS DEFENSE ENTERPRISE ACCOUNTING AND MGMT MAINTENANCE REPAIR AND OVERHAUL INITIATIVE THEATER BATTLE MGT C2 SYS AIR AND SPACE OPERATIONS CIR-WPN SYSTEM		483 802 12,207 7,644 40,066		483 802 12,207 7,644 40,066		
41 43 44	AIR FORCE COMMUNICATIONS INFORMATION TRANSPORT SYSTEMS AFINE JOINT COMMUNICATIONS SUPPORT ELEMENT (JCSE) USCENTCOM		22,357 102,836 3,145 13,194		22,357 76,836 3,145 13,194		- 26,000
45 47 48 49	organization and base Tactical Ce equipment Radio equipment Cctvaudiovisual equipment Base comm infrastructure		161,231 12,142 6,505 169,404		87,531 12,142 3,005 169,404		-73,700 -3,500

TOTAL CICKETRONICS AND TELECOMMUNICATIONS EQUIP   TERNIC LESS THAN \$5,000,000 (SAFTY)									149				
MODIFICATIONS		-114,798					+11,328	ກດຄ 'c +		000,51	7/4'99 —	-20,000 + 114.145	- 50.798
TOTAL, OTHER BASE MAINTENANCE AND SUPPORT EQUIP   TOTAL, OTHER PARTS   TOTAL, OTHER BASE MAINTENANCE AND SUPPORT EQUIP   TOTAL, OTHER PARTS   TOTAL, O													
TOTAL, OTHER BASE MAINTENANCE AND SUPPORT EQUIP   TOTAL, ELECTRONICS AND TELECOMMUNICATIONS EQUIP   TOTAL, ELECTRONICS AND TELECOMMUNICATIONS EQUIP   TITEMS LESS THAN \$5,000,000 (SAFETY)   1,545,506     DEPOT PLANT + MATERIALS HANDLING EQ   88,298     BASE SUPPORT EQUIPMENT   88,298   88,298     BASE SUPPORT EQUIPMENT   88,000,000 (SAFETY)   17,031     BASE PROCURED EQUIPMENT   88,298   88,298     BASE SUPPORT EQUIPMENT   88,000,000 (SAFETY)   17,031     BASE PROCURED EQUIPMENT   17,255,069     TOTAL, OTHER BASE MAINTENANCE AND SUPPORT EQUIP   17,255,069     TOTAL, OTHER PROCUREMENT, AIR FORCE   10,089,164     TOTAL, OTHER PROCUREMENT, AIR FORCE   20,890,164     TOTAL, OTHER PROCUREMENT, AIR FORCE   10,089,164     TOTAL, OTHER PROCUREMENT, AIR FORCE   10,080,164     TOTAL, OTHER PROCUREMENT, AIR FORCE   10,080,164     TOTAL, OTHER PROCUREMENT, AIR FORCE   10,089,164     TOTAL, AIR FORCE   10,089,164     TOTAL, AIR FORCE   10,089,164     TOTAL,	10,654	1,430,708	51 0/6	006,10	967'99	17,031	82,635 20,877	600,62	26,262 378,490	1 505 317	86.365	-20,000 17,372,214	20,839,366
COMM ELECT MODS  TOTAL, ELECTRONICS AND TELECOMMUNICATIONS EQUIP  TOTAL, SECULE ON SAFETY  DEPOT PLANT + MATERIAL HANDLING BASE SUPPORT EQUIPMENT BASE SUPPORT PROJECTS  DARRE LASS THAN \$5M (BASE SUPPORT)  SPECIAL UPDATE PROGRAM  TOTAL, OTHER BASE MAINTENANCE AND SUPPORT EQUIP  TOTAL, OTHER BASE MAINTENANCE AND SUPPORT EQUIP  TOTAL, OTHER PROCUREMENT, AIR FORCE  TOTAL, OTHER PROCUREMENT, AIR FORCE  TOTAL, OTHER PROGRAMS  TOTAL, OTHER PROCUREMENT, AIR FORCE  TOTAL, OTHER PROCUREMENT, AIR FORCE  20,88													
MODIFICATIONS COMM ELECT MODS  TOTAL, ELECTRONICS AND TELECOMMUNICATIONS EQUIP OTHER BASE MAINTENANCE AND SUPPORT EQUIP PERSONAL SAFETY AND RESCUE EQUIP ITEMS LESS THAN \$5,000,000 (SAFETY) DEPOT PLANT + MATERIALS HANDLING EQ MECHANIZED MATERIAL HANDLING BASE SUPPORT EQUIPMENT MOBILITY EQUIPMENT ITEMS LESS THAN \$5M (BASE SUPPORT)  SPECIAL SUPPORT PROJECTS DARP RC135 DARP RC135 DISTRIBUTED GROUND SYSTEMS SPECIAL UPDATE PROGRAM  TOTAL, OTHER BASE MAINTENANCE AND SUPPORT EQUIP SPARE AND REPAIR PARTS UNDISTRIBUTED CLASSIFIED PROGRAMS  SPARES AND REPAIR PARTS UNDISTRIBUTED CLASSIFIED PROGRAMS  CLASSIFIED PROGRAMS  TOTAL, OTHER PROCUREMENT, AIR FORCE	10,654	1,545,506	51 906	000000000000000000000000000000000000000	0,00	17,031	82,535 9,549 24,005		26,262 448,290 913,813	1.661 789	86,365	17,258,069	20,890,164
MOUDIFICATIONS  COMM ELECT MODS  TOTAL, ELECTRONICS AND TELECOMMUNICATIONS EQUIP  OTHER BASE MAINTENANCE AND SUPPORT EQUIP  FERSONAL SAFETY AND RESCUE EQUIP  ITEMS LESS THAN \$5,000,000 (SAFETY)  DEPOT PLANT + MATERIALS HANDLING EQ  BASE SUPPORT EQUIPMENT  BASE PROCURED EQUIPMENT  AMOBILITY EQUIPMENT  SAS PROCURED EQUIPMENT  AMOBILITY EQUIPMENT  SAS PROCURED EQUIPMENT  TOTAL, OTHER BASE MAINTENANCE AND SUPPORT EQUIP  TOTAL, OTHER PARTS  SARES AND REPAIR PARTS  CLASSIFIED PROGRAMS  CLASSIFIED PROGRAMS  TOTAL, OTHER PROCUREMENT, AIR FORCE													
50 51 53 54 55 55 56 63 63	MODIFICATIONS COMM ELECT MODS	CATIONS EQUIP	PERSONAL SAFETY AND RESCUE EQUIP ITEMS LESS THAN \$5,000,000 (SAFETY)	DEPOT PLANT + MATERIALS HANDLING EQ MECHANIZED MATERIAL HANDLING	BASE SUPPORT EQUIPMENT	enge knougred equipment	MOBILITY EQUIPMENT	SPECIAL SUPPORT PROJECTS	DARP RC135 DISTRIBUTED GROUND SYSTEMS SPECIAL UPDATE PROGRAM	TOTAL, OTHER BASE MAINTENANCE AND SUPPORT EQUIP	SPARE AND REPAIR PARTS SPARES AND REPAIR PARTS INDURCEDIETED		
	20 05			_	_								-

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# COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[in thousands of dollars]

ne	ltem	2019 budget estimate	Committee recommendation	Change from budget estimate
3	Cap VehiclesProgram increase: Civil air patrol—vehicles	1,022	1,700	+ 678 + 678
5	Joint Light Tactical Vehicle	30,145	34,142	+3,99
7	Special Purpose Vehicles	43,003	55,008	+ 3,99 + 12,00
8	INDOPACOM	23,328	32,708	+ 12,00 + 9,38
	Program increase: Procurement of 7 DABs for INDOPACOM	11 507	21 125	+ 9,38
9	Materials Handling Vehicles	11,537	21,125	+ 9,58 + 9.58
10	INDOPACOM Runway Snow Remov And Cleaning Equ	37,600	38,279	+ 67 + 67
12	Comsec Equipment	114,372	118,972	+ 4,60 + 12,90
10	Maintain Program Affordability: Unjustified growth for COMSEC equipment	57,937	42.937	-8,30 -15,00
16 20	Maintain Program Affordability: D-RAPCON	45,020	52,520	- 15,00 + 7,5
29	Program increase: Portable doppler radar	159,313	47,115	+ 7,5 - 112,1
	Program increase: Procurement of 7 DABs for INDOPACOM			+ 2,0 - 114.2
30	Law 115–141	132,675	236,175	+ 103,5 + 40,0
	ments—threat emitters Program increase: Threat simulators and equipment to support F-35A beddown			+ 63.5
42	AFNET Improving Funds Management: ARAD enterprise software funded in Public Law 115–141	102,836	76,836	- 26,0 - 26,0
45	Tactical C–E Equipment	161,231	87,531	-73,7 -10,0
48	quirementCCTV/Audiovisual Equipment	6,505	3,005	63,7 3,5 3,5
55	Improving Funds Management: Carryover	9,549	20,877	+11.3
56	INDOPACOM	24,005	29,005	+ 11,5 + 5,1 + 5,1
59	DCGS-AF	448,290	378,490	-69,8
61	in Public Law 115–141	913,813	900,813	- 69,3 - 13,1
999	Classified Adjustment Classified Programs	17,258,069	17,372,214	- 13, + 114, + 114,

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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.

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# 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]

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			2010 hudrat		Cammittan	Change from	from
e e	llem	-Gê	estimate	Ė	recommendation	Otty.	Budget estimate
	PROCUREMENT, DEFENSE-WIDE						
	MAJOR EQUIPMENT						
	MAJOR EQUIPMENT, DCAA MAJOR EQUIPMENT ITEMS LESS THAN \$5M		2,542		2,542		
2	MAJOR EQUIPMENT, DCMA MAJOR EQUIPMENT		3,873		3,873		
es	MAJOR EQUIPMENT, DHRA PERSONNEL ADMINISTRATION		10,630		10,630		
7	Major Equipment, Disa Information systems security		21,590		21.590		
∞ <i>σ</i>	TELEPORT PROGRAM ITEMS I FSS THAN \$5M		33,905		33,905		3 0 0
2	NET CENTRIC ENTERPRISE SERVICES [NCES]		1.017		1.017		C10'5
II 2	DEFENSE INFORMATION SYSTEMS NETWORK WHITE HOUSE COMMINICATION AGENCY		150,674		150,674		
14	SENIOR LEADERSHIP ENTERPRISE		197.246		94,610		- 197.246
16	Joint Regional Security Stacks (JRSS) Joint Service provider		140,338		140,338 100,442		-6,740
18	MAJOR EQUIPMENT, DLA MAJOR EQUIPMENT		5,225		5,225		
19	Major Equipment, Dwact A—Weapon System Cost	က	13,106	m	13,106		
20	MAJOR EQUIPMENT, DODEA AUTOMATION/EDUCATIONAL SUPPORT & LOGISTICS		1,723		862		- 861
21	MAJOR EQUIPMENT, DSS MAJOR EQUIPMENT		1,196		298		- 598
5	MAJOR EQUIPMENT, DEFENSE THREAT REDUCTION AGENCY		. !				
2 52	VERIOLES.  OTHER MAJOR EQUIPMENT		5.592		5.592		

[Dollars in thousands]

MADE EQUIPMENT, NDA	î	ï	00	o :	ယ္မ	ο:	:	:0	: :	15		: :	1	i 0		<sub>o</sub>		; ;	
Agy commentation dy. Committee estimate estimate at 3 15,000 at 15	) from		+ 140,000	+ 41,00	+115,206	007'011 —		+20,000		+ 25,300				+ 17,040		- 8,739			
Agy 2019 budget Ony recomme continuate Conti	Change																		
2019 budget estimate estimate   2019 budget   2019 budget		Committee recommendation	1,014,068	115,000	708,694		80,000	35,000	70,000	30,703	35,295	4,360	497	3,314,045		139,612	18,731	32,301	121 022
43 82 82 43 43 43 43 43 43 43 43 43 43 43 43 43		Qty.	82	47	43		-		28					***************************************		***************************************		225272	
έ		2019 budget estimate	874,068	115,000	593,488	13,185	50,000	15,000	70,000	5,403	35,295	4,360	497	3,297,005		148,351	18.731	32,301	121.022
MAJOR EQUIPMENT, MDA THAAD SYSTEM GROUND BASED MIDCOURSE AEGIS BMD (4P) BMDS ANTPY-2 RADARS STRAELI PROGRAMS SYSTEM AEGIS SANORE PHASE III RON DOME SYSTEM AEGIS SANORE PHASE III RON DOME SYSTEM AGIS SASTEM AGIS SASTEMS AGIOR EQUIPMENT, NSA MAJOR EQUIPMENT, SSD MAJOR EQUIPMENT, TIS MAJOR EQUIPMENT, WHS MAJOR EQUIPMENT, TIS MAJOR EQU		Oty.	82	14 I	43				28										
		Иет	MAJOR EQUIPMENT, MDA THAAD SYSTEM THAID PACED MINICOLOGY	Ground based Midcourse [AP-CY]			FNSF (SRBMD)		IKON DOME SYSTEM AEGIS BWD HARDWARE AND SOFTWARE	SECURITY PROGRAM [ISSP]	MAJOR EQUIPMENT, OSD MAJOR EQUIPMENT, OSD	MAJOR EQUIPMENT, TJS MAJOR EQUIPMENT, TJS MAJOR EQUIPMENT, TJS-0E212		1	SPECIAL OPERATIONS COMMAND	STAINMENT		30F U-28	MH—47 CHINDOK

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TO	)

56	MQ-9.			
7.7	DNMANNED AERIAL VEHICLE	24,621	24,621	
2 2		226,965	226,965	
3 6	_	165,813	155,681	-10,132
9		80,2/4	80,274	
ć				
00	_	136,723	123,071	-13,652
	AMMUNITION PROGRAMS			
61	SOF ORDNANCE ITEMS UNDER \$5,000,000	357,742	325,042	-32.700
	OTHER PROCUREMENT PROGRAMS			
62	SOF INTELLIGENCE SYSTEMS	85 699	003 50	
63		17 069	00,000	
64	$\simeq$	51,000	17,863	
65	. ∠	112,117	10b,250	- 5,867
9		615,1	15,913	+ 8,600
3 2	STEVINE INCURRANCE	14,026	14,026	
6	INCLINAL VEHICLES	88,608	 82,608	-3,000
8 8	WARRIOK SYSIEMS UNDER \$5,000,000	438,590	415,590	-23,000
66	COMBAL MISSION REQUIREMENTS	 19,408	19,408	
2 :	SOF GLOBAL VIDEO SURVEILLANCE ACTIVITIES	 6,281	6,281	
7	SOF OPERATIONAL ENHANCEMENTS INTELLIGENCE	18,509	18.509	
73	SOF OPERATIONAL ENHANCEMENTS	367,433	332,333	-35,100
	TOTAL, SPECIAL OPERATIONS COMMAND	2,588,638	2.465.048	- 123 590
	CHEMICAL/BIOLOGICAL DEFENSE			
76		166,418	161,918	-4.500
	CB PROTECTION AND HAZARD MITIGATION	144,519	142,519	-2,000
	TOTAL, CHEMICAL/BIOLOGICAL DEFENSE	310,937	304,437	-6,500
	CLASSIFIED PROGRAMS	589,591	580,291	- 9,400
	TOTAL, PROCUREMENT, DEFENSE-WIDE	6,786,271	6,663,821	-122,450

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COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[in thousands of dollars]

		2019 budget	Committee	Change from
Line	Item	estimate	recommendation	budget estimat
9	Items Less Than \$5 Million	27,886	24,071	-3,81
	Maintain program affordability: Unjustified growth			<b>-3,8</b> 1
14	Senior Leadership Enterprise	197,246	.,	-197,24
	Insufficient budget justification: Lack of supporting			
	justification			-197,24
16	Joint Service Provider	107,182	100,442	-6.7
	Maintain program affordability: Unjustified growth in	,		
	end user services			-6.7
20	Automation/Educational Support & Logistics	1.723	862	-8
	Improving funds management: Prior year carryover			-8
21	Major Equipment	1,196	598	- 5
	Improving funds management: Prior year carryover			-5
26	THAAD	874,068	1,014,068	+ 140.0
	Program increase: THAAD interceptors			+ 140.0
27	Ground Based Midcourse	409,000	450,000	+41.0
	Transfer: Transfer funding for missile field compo-	,	, i	
	nents from Research, Development, Test and Eval-			
	uation. Defense-wide. line 73 for proper execution:			
	Transfer requested by Missile Defense Agency		·	+41,0
29	Aegis BMD	593,488	708,694	+ 115,2
23	Transfer: Transfer from line 30 for additional SM-3	000,100		
	Block IIA interceptors			+ 115,2
30	Aegis BMD [AP-CY]	115,206		- 115,2
50	Restoring acquisition accountability: Lack of justifica-	113,200	***************************************	110,2
	tion—transfer to line 29 for additional SM-3 Block			
	IIA interceptors		***************************************	- 115.2
34	Aegis Ashore Phase III	15,000	35,000	+ 20,0
34	Program increase: AEGIS Ashore Poland	10,000		+ 20,0
42	Information Systems Security Program [ISSP]	5,403	30,703	+ 25,3
42	Program increase: Sharkseer	0,400	30,700	+ 25,3
50	Rotary Wing Upgrades and Sustainment	148,351	139,612	-8.7
30	Maintain program affordability: MPU unjustified re-	140,001	105,012	0,,
	quest			-6,9
	Restoring acquisition accountability: NGEN FLIR	***************************************		0,5
	delays			-1.8
58	AC/MC-130J	165.813	155.681	-10.1
20	Improving funds management: RFCM ICS carryover	103,013	133,001	-2,1
	Maintain program affordability: MC—130J SMS unjusti-	***************************************	***************************************	۷,3
				-8.0
60	fied growth	136,723	123.071	- 13,6
00	Restoring acquisition accountability: DCS components	130,723	123,071	- 13,0
	ahead of need			- 13.6
C 1		257 742	325,042	- 13,0 - 32,7
61	Ordnance Items <\$5M	357,742	323,042	3Z,1
	Restoring acquisition accountability: SOPGM unit cost			- 25,0
	adjustments	***************************************		- 25,0
	Restoring acquisition accountability: 30MM and			,,
	105MM unit cost adjustments	110 117	100.050	-7,7
64	Other Items <\$5M	112,117	106,250	- 5,8
	Restoring acquisition accountability: MMP—M ahead of			
	need			- 5,8
65	Combatant Craft Systems	7,313	15,913	+ 8,6
	Program increase: Combatant craft			+ 8,6
67	Tactical Vehicles	88,608	85,608	-3,0
	Improving funds management: Requirements funded			
	in Public Law 115-141			- 3,0
68	Warrior Systems <\$5M	438,590	415,590	- 23,0
	Improving funds management: Requirements funded			
	in Public Law 115–141			- 23,0
	Operational Enhancements	367,433		- 35.1

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#### [In thousands of dollars]

Line	ltem	2019 budget estimate	Committee recommendation	Change from budget estimate
74	Improving funds management: Requirements funded in Public Law 115–141	166,418	161,918	- 35,10 - 4,50 - 7,50
75	System	144,519	142,519	+ 3,00 - 2,00 - 3.00
999	Program increase: DFoS CIDAS Classified Programs Classified adjustment	589,691	580,291	+ 1,00 - 9,40 - 9,40

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.

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#### NATIONAL GUARD AND RESERVE EQUIPMENT

Appropriations, 2018	1\$1,300,000,000
Budget estimate, 2019	
	223,000,000

<sup>&</sup>lt;sup>1</sup>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
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

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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.

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#### 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]	iousands]					
<u>=</u>	Ham	ě	2019 hildest		Committee	Change from	from
	HALI	ď.	estimate	OÇÎ	recommendation	Oty.	Budget estimate
	DEFENSE PRODUCTION ACT PURCHASES						
1	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

propriations.

#### 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 defensewide 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 re-

programming 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

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

sure 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 De-

fense 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. Committee the recommends an \$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 con-

tinued 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, aug-

mented 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.

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# RESEARCH, DEVELOPMENT, TEST AND EVALUATION, ARMY

Appropriations, 2018	
Tippropriations, 2016	\$10 647 426 000
Budget estimate, 2019	10,017,120,000
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	ltem	2019 budget estimate	Committee recommendation	Change from budget estimate
	RESEARCH, DEVELOPMENT, TEST & EVAL, ARMY			
	BASIC RESEARCH	1		
1	IN HOUSE LADORATORY INDEPENDENT DESCRIPTION			
2	IN-HOUSE LABORATORY INDEPENDENT RESEARCH	11,585	11,585	
3	DEFENSE RESEARCH SCIENCES	276,912	377,912	+ 101,000
4	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		,	100,700
5	MATERIALS TECHNOLOGY	00.000		}
6	SENSORS AND ELECTRONIC SURVIVABILITY	28,600	58,600	+ 30,000
7	TRACTOR HIP	32,366	85,866	+ 53,500
8	TRACTOR JACK	8,674	8,674	
9	AVIATION TECHNOLOGY	400	400	
10	ELECTRONIC WARFARE TECHNOLOGY	64,847	76,847	+ 12,000
11	MISSILE TECHNOLOGY	25,571	25,571	
12	ADVANCED WEAPONS TECHNOLOGY	50,183	75,183	+25,000
13	ADVANCED CONCEPTS AND SIMULATION	29,502	34,502	+5,000
14	COMPAT VEHICLE AND AUTOMOTIVE TECHNICION	28,500	28,500	
15	COMBAT VEHICLE AND AUTOMOTIVE TECHNOLOGY	70,450	95,450	+ 25,000
16	BALLISTICS TECHNOLOGY	75,541	75,541	***************************************
17	CHEMICAL, SMOKE AND EQUIPMENT DEFEATING TECHNOLOGY	5,032	5,032	***************************************
18	JOINT SERVICE SMALL ARMS PROGRAM	12,394	12,394	***************************************
19	WEAPONS AND MUNITIONS TECHNOLOGY	40,444	65,944	+ 25.500
20	ELECTRONICS AND ELECTRONIC DEVICES	58,283	83,283	+ 25,000
21	NIGHT VISION TECHNOLOGY	29,582	29,582	
22	COUNTERMINE SYSTEMS	21,244	27,244	+6,000
	HUMAN FACTORS ENGINEERING TECHNOLOGY	24,131	26,631	+2,500
24	ENVIRONMENTAL QUALITY TECHNOLOGY	13,242	21,242	+8,000
25	COMMAND, CONTROL, COMMUNICATIONS TECHNOLOGY	55,003	55,003	***************************************
26	COMPUTER AND SOFTWARE TECHNOLOGY	14,958	14,958	***************************************
27	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
1.	ADVANCED TECHNOLOGY DEVELOPMENT		,,	. 2.0,000
80	WARFIGHTER ADVANCED TECHNOLOGY	20.220		
31 1	MEDICAL ADVANCED TECHNOLOGY	39,338		
12 /	AVIATION ADVANCED TECHNOLOGY	62,496	70,496	+8,000
3 1	NEAPONS AND MUNITIONS ADVANCED TECHNOLOGY	124,958	133,958	+9,000
4 (	COMBAT VEHICLE AND AUTOMOTIVE ADVANCED TECHNOLOGY	102,686	244,503	+141,817
5 3	SPACE APPLICATION ADVANCED TECHNOLOGY	119,739	166,239	+46,500
6 N	MANPOWER, PERSONNEL AND TRAINING ADVANCED TECH-	13,000	51,000	+38,000
	NOLOGY			
7   1	RACTOR HIKE	8,044		
8 1	IEXT GENERATION TRAINING & SIMULATION SYSTEMS	22,631		
1.)	GENERATION HAMMING & SIMILITATION 21215/02	25,682	25,682	***************************************

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ine	ltem	2019 budget estimate	Committee recommendation	Change from budget estimate
40	COMBATING TERRORISM, TECHNOLOGY DEVELOPMENT	3,762	36,762	+ 33,000
40	TRACTOR NAIL	4,896	4,896	***************************************
41	TRACTOR EGGS	6.041	6,041	******
42	ELECTRONIC WARFARE TECHNOLOGY	31.491	41,491	+10,000
43	ELECTRONIC WARFARE TECHNOLOGY	61.132	86,132	+25,000
44	MISSILE AND ROCKET ADVANCED TECHNOLOGY	16,845	16,845	
45	TRACTOR CAGE	183,322	218.322	+ 35,000
46	HIGH PERFORMANCE COMPUTING MODERNIZATION PROGRAM	11.104	17,104	+6,000
47	LANDMINE WARFARE AND BARRIER ADVANCED TECHNOLOGY	5,885	22,805	+ 16,920
48	JOINT SERVICE SMALL ARMS PROGRAM		61,376	
49	NIGHT VISION ADVANCED TECHNOLOGY	61,376	29,136	+ 20,000
50	ENVIRONMENTAL QUALITY TECHNOLOGY DEMONSTRATIONS	9,136		+ 69,600
51	MILITARY ENGINEERING ADVANCED TECHNOLOGY	25,864	95,464	₩ 03,000
52	ADVANCED TACTICAL COMPUTER SCIENCE & SENSOR TECH-			. 0.000
32	NOLOGY	34,883	43,883	+9,000
53	COMMAND, CONTROL, COMMUNICATIONS ADVANCED TECH-			
55	NOLOGY	52,387	52,387	
	NOLOG1			
	TOTAL, ADVANCED TECHNOLOGY DEVELOPMENT	1,026,698	1,494,535	+ 467,837
	TOTAL, ADVANGED TECHNOLOGY DEVELOR MENT ASSESSMENT	2,020,000	· ' '	
	DEMONSTRATION & VALIDATION			44.700
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
	LANDMINE WARFARE AND BARRIER—ADV DEV	45,254	45,254	
57	SMOKE, OBSCURANT AND TARGET DEFEATING SYS-ADV DEV	22,700	22,700	
58	SMOKE, UBSCURANT AND TARGET DEFEATING STS-ROY DET	41,974	41,974	
59	TANK AND MEDIUM CALIBER AMMUNITION	119.395	63,585	- 55,810
60	ARMORED SYSTEM MODERNIZATION—ADV DEV	8,746	8,746	
61	SOLDIER SUPPORT AND SURVIVABILITY	-,	35,667	
62	TACTICAL ELECTRONIC SURVEILLANCE SYSTEM—AD	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	
66	AVIATION—ADV DEV	10,793	86,193	+ 75,40
-	LOGISTICS AND ENGINEER EQUIPMENT—ADV DEV	14,248	17,248	
67	MEDICAL SYSTEMS—ADV DEV	34,284	37,284	+3,00
68	SOLDIER SYSTEMS—ADVANCED DEVELOPMENT	18,044	18,044	.,
69	20FDIEK 2121EM2 - ADAMICED DEAFFOLMENT	95,660	72,260	
70	ROBOTICS DEVELOPMENT	38,000		
71	CROSS FUNCTIONAL TEAM (CFT) ADVANCED DEVELOPMENT	9,765		
72	ANALYSIS OF ALTERNATIVES			
73	FUTURE TACTICAL UNMANNED AIRCRAFT SYSTEM (FTUAS)	12,393		
74	LOWER TIER AIR MISSILE DEFENSE (LTAMID) SENSOR	120,374		
75	TECHNOLOGY MATURATION INITIATIVES	95,347		
76		95,085		
77		52,894	52,894	***************************************
,,				
	SYNTHETIC TRAINING ENVIRONMENT REFINEMENT AND	77.000	77.939	
79	PROTOTYPING	77,939	11	
80	INDIRECT FIRE PROTECTION CAPABILITY INCREMENT 2-INTERC	51,030		
8	CYBERSPACE OPERATIONS FORCES AND FORCE SUPPORT	65,817		
82		146,300		
8		38,319	38.319	}
U.	TOTAL, DEMONSTRATION & VALIDATION	1,329,393	1,245,183	- 84,2
	ENGINEERING & MANUFACTURING DEVELOPMENT	32,293	32,29	3
8	AIRCRAFT AVIONICS			
8	FLECTRONIC WARFARE DEVELOPMENT	/8,69		
8	R TRACTOR CAGE	17,05		
8	INFANTRY SUPPORT WEAPONS	83,15		
9		3,70		
		10,62		
8		11,95		0
9	Z PANILT OF REALT INCHORL VEHICLES	12,34	*	
9	3 AIR TRAFFIC CONTROL	8,21		
9	5 LIGHT TACTICAL WHEELED VEHICLES	202 61		.,
9	6 ARMORED SYSTEMS MODERNIZATION (ASM)—ENG DEV	393,61		
	7 NIGHT VISION SYSTEMS—SDD	. 139,61	4 1 138,61	+ 1) - 1,t

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[in thousands of dollars]

	[In thousands of dollars	s]		
Li	ne Item	2019 budget estimate	Committee recommendation	Change from budget estimate
	98 COMBAT FEEDING, CLOTHING, AND EQUIPMENT	4,507	7.50	
	aa   MON-2421FW TKYINING DEVICES—200	49,436	.,	,
	UV   AIR DEFENSE COMMAND, CONTROL AND INTELLIGENCE SOD	95,172		0,000
	VI   CONSTRUCTIVE SIMULATION SYSTEMS DEVELOPMENT	22,628	,-,	. 1000
	VZ   AUTOMATIC TEST EQUIPMENT DEVELOPMENT	13.297	,	
	US   DISTRIBUTIVE INTERACTIVE SIMULATIONS (DIS)—SDD	9,145	20,007	-,
1	U4   BRILLIANT ANTI-ARMOR SUBMIDITION (RAT)		9,145	
1	JO COMBINED ARMS FACTICAL TRAINER (CATT) CORE	9,894	6,894	
10	D6 BRIGADE ANALYSIS, INTEGRATION AND EVALUATION	21,964	21,964	
10	77   WEAPUNS AND MUNITIONS—SDD	49,288	49,288	
10	08 LOGISTICS AND ENGINEER EQUIPMENT—SDD	183,100	184,959	
1(	9 COMMAND, CONTROL, COMMUNICATIONS SYSTEMS—SDD	79,706	79,706	
11	0 MEDICAL MATERIEL/MEDICAL BIOLOGICAL DEFENSE EQUIPMENT	15,970	15,970	
- 11	1 LANDMINE WARFARE/BARRIER—SDD	44,542	44,542	
11	2 ARMY TACTICAL COMMAND & CONTROL HARDWARE & SOFT-	50,817	45,117	- 5,700
	WARE		1	
11	3 RADAR DEVELOPMENT	178,693	163,693	-15,000
11	4 GENERAL FUND ENTERPRISE BUSINESS SYSTEM [GFEBS]	39,338	39,338	
11	2 EINEEINDED EMIEKLKISE BUSINESS SYSTEM (GFEBS)	37,851	37,851	
11		45,473	45,473	***************************************
11		10,395	10,395	***************************************
113		69,204	52,904	-16,300
119		1,781	1,781	10,300
		113,758	80,376	- 33,382
120		166,603	155,103	-11,500
121	ARMORED MULTI-PURPOSE VEHICLE	118,239	118,239	11,500
122	INTEGRATED GROUND SECURITY SURVEILLANCE RESPONSE		110,203	***************************************
123	JOINT TACTICAL NETWORK CENTER (JINC)	3,211	3,211	***************************************
124	JOINT TACTICAL NETWORK CENTER (JINC)	15,889	15,889	***************************************
125		41,972	41,972	
126		41,166	41,166	
120		1		
127	EXPENDITIONARY (GBOSS-E)	5,175	5.175	
	TACTICAL SECURITY SYSTEM (TSS)	4,496	4,496	***************************************
128	COMMON INFRARED COUNTERMEASTIRES (CIRCM)	51,178	25,178	-26,000
129	COMBATING WEAPONS OF MASS DESTRICTION (CWMD)	11,311	11,311	- 20,000
131	NUCLEAR BIOLOGICAL CHEMICAL RECONNAISSANCE VEHICLE	17,154	13,054	-4,100
132	DEFENSIVE CYBER TOOL DEVELOPMENT	36,626	30,126	- 4,100 - 6,500
133	TACTICAL NETWORK RADIO SYSTEMS (LOW_TIER)	3.829	3,829	- 0,300
134	CUNTRACT WRITING SYSTEM	41,928	41,928	
135	MISSILE WARNING SYSTEM MODERNIZATION AMAZEMS	28,276	6,276	22.000
136	AIRCRAFT SURVIVABILITY DEVELOPMENT	21,965	21,965	22,000
137	I INDIRECT FIRE PROTECTION CAPABILITY INC 2—BLOCK 1	157,710		10.000
138	GROUND ROBOTICS	86,167	145,710	- 12,000
139	EMERGING TECHNOLOGY INITIATIVES	42,866	61,549	-24,618
140	AMF JUINT TACTICAL RADIO SYSSTEM		68,266	+25,400
141	JUINT AIK-10-GROUND MISSILE FIAGMT	15,984		
142	ARMY INTEGRATED AIR AND MISSILE DEFENSE [AIAMD]	11,773		
143	NATIONAL CAPABILITIES INTEGRATION	277,607	322,607	+45,000
144	JOINT LIGHT TACTICAL VEHICLE ENG AND MANUFACTURING	12,340		***************************************
145	AVIATION GROUND SUPPORT EQUIPMENT			- 2,686
147	TROJAN—RH12	2,706	7,706	+5,000
150	ELECTRONIC WARFARE DEVELOPMENT	4,521	4,521 .	
151	TRACTOR BEARS	8,922	8,922 .	
-0.	TRADICAL DEARS	23,170	23,170	
	TOTAL, ENGINEERING & MANUFACTURING DEVELOP-	2 102 000		
E2	RDT&E MANAGEMENT SUPPORT	3,192,689	3,016,828	— 1 <b>75,86</b> 1
52	THREAT SIMULATOR DEVELOPMENT	12,835	28,835	+16,000
.53	TARGET SYSTEMS DEVELOPMENT	12,135	32,135	
54	MAJOR T&E INVESTMENT	82,996	182,996	+20,000
55	KAND ARROYO CENTER	19,821	10.001	+ 100,000
56 ]	ARMY KWAJALEIN ATOLL	246,574	040 == -	
57	CONCEPTS EXPERIMENTATION PROGRAM	30,430		
m.)		00, <del>1</del> 30 I	30,430	

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### [In thousands of dollars]

	[In thousands of dollars]			
Line	ltem	2019 budget estimate	Committee recommendation	Change from budget estimate
	ARMY TEST RANGES AND FACILITIES	305,759	430,759	+125,000
159	ARMY TECHNICAL TEST INSTRUMENTATION AND TARGETS	62,379	84,879	+22,500
160	SURVIVABILITY/LETHALITY ANALYSIS	40,496	40,496	
161	AIRCRAFT CERTIFICATION	3,941	3,941	
162	METEOROLOGICAL SUPPORT TO RDT&E ACTIVITIES	9,767	9,767	
163	MATERIEL SYSTEMS ANALYSIS	21,226	21,226	
164	EXPLOITATION OF FOREIGN ITEMS	13,026	13,026	,
165	SUPPORT OF OPERATIONAL TESTING	52,718	52,718	
166	ARMY EVALUATION CENTER	57,049	57,049	,
167	ARMY EVALUATION CENTER			
168	INTEG	2,801	2,801	***************************************
	PROGRAMWIDE ACTIVITIES	60,942	60,942	
169	TECHNICAL INFORMATION ACTIVITIES	29,050	29,050	
170	MUNITIONS STANDARDIZATION, EFFECTIVENESS AND SAFETY	42,332	56,332	+14,000
171	MUNITIONS STANDARDIZATION, EFFECTIVENESS AND SALETT	3,216	3,216	
172	ENVIRONMENTAL QUALITY TECHNOLOGY MGMT SUPPORT	54,145	54,145	***************************************
173	MANAGEMENT HEADQUARTERS (RESEARCH AND DEVELOPMENT)	4,896	4,896	
174	MILITARY GROUND-BASED CREW TECHNOLOGY	63,011	63,011	
175	RONALD REAGAN BALLISTIC MISSILE DEFENSE TEST SITE	2,636	2,636	
176	COUNTERINTEL AND HUMAN INTEL MODERNIZATION	88,300	88,300	
177	ASSESSMENTS AND EVALUATIONS CYBER VULNERABILITIES			+ 297,500
	TOTAL, RDT&E MANAGEMENT SUPPORT	1,322,481	1,619,981	+ 297,300
	OPERATIONAL SYSTEMS DEVELOPMENT	0 000	6,886	-2.000
181	MI DE DOUBLET IMPROVEMENT PROGRAM	8,886	4.067	2,000
182	TRACTOR PHILI	4,067	4,254	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
183	ANTI TAMPER TECHNOLOGY SUPPORT	4,254	'	***************************************
184	WEADONS AND MUNITIONS PRODUCT IMPROVEMENT PROGRAMS	16,022		
185	TRACTOR SMOKE	4,577		-27,000
186	LONG DANGE PRECISION FIRES (LRPF)	186,475		-7,000 -7,000
187	ADACHE PRODUCT IMPROVEMENT PROGRAM	31,049		
188	REACKHAWK RECAP/MODERNIZATION	35,240		
189		157,822		-4,000
190	CIVED WING AIRCRAFT	4,189		
191	IMPROVED TURRINE ENGINE PROGRAM	192,637	189,137	- 3,500
194		1		10.000
194	VELOPMENT	60,860		
100		52,019		
195		2,400		
190		65,369	9 75,369	
19			1	-1
19		30,95	4 30,954	
19		411,92	7 336,427	
20		40,67	6 30,670	-10,000
20		17,70		
20				
20		6,31		ŝ
20	5 DIGITIZATION		3 1.64	3
20	6 MISSILE/AIR DEFENSE PRODUCT IMPROVEMENT PROGRAM		· .'	7
20	7 OTHER MISSILE PRODUCT IMPROVEMENT PROGRAMS	34,05		
20	8 TRACTOR CARD			
21	0 MATERIALS HANDLING EQUIPMENT		1000 12.	
21	1 ENVIRONMENTAL QUALITY TECHNOLOGY—OPERATIONAL SYSTEM	79,28		·
21	2 LOWER TIER AIR AND MISSILE DEFENSE JAMPI STOLEN	. 75,20	'	·
2.	.a   CHINEN MILITIPLE-LAUNCH ROCKEL SYSTEM [GMLKS]	12,28		- '
	C SECURITY AND INTELLIGENCE ACTIVITIES	. 12,20	1001	
2	INFORMATION SYSTEMS SECURITY PROGRAM	. 00,00	40.00	
	CLOPAL COMBAT SUPPORT SYSTEM			
	ON MANIMORS/GLOBAL COMMAND AND CONTROL SYSTEM	2,0		
	22 COMBINED ADVANCED APPLICATIONS	1,01		- 1
	NITECRATED RECADCAST SERVICE (IBS)	4:	50 45	
	25 TACTICAL HUMANNED AFRIAL VEHICLES	., 0,0		
	OF LAIRBORNE RECONNAISSANCE SYSTEMS	12,4		
	THE PART OF THE PA	38.6	67 27.60	
	DISTRIBUTED COMMON GROUND/SURFACE SYSTEMS			30

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[In thousands of dollars]

Line	ltem	2019 budget estimate	Committee recommendation	Change from budget estimate
230 231 233 234 235	RQ-7 UAV BIOMETRICS ENABLED INTELLIGENCE END ITEM INDUSTRIAL PREPAREDNESS ACTIVITIES SATCOM GROUND ENVIRONMENT (SPACE) JOINT TACTICAL GROUND SYSTEM	12,863 4,310 53,958 12,119 7,400	12,863 4,310 88,758 12,119 7,400	+ 34,800
9999	TOTAL, OPERATIONAL SYSTEMS DEVELOPMENT	1,916,659 5,955	1,681,222 5,955	- 235,437
	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	ltem	2019 budget estimate	Committee recommendation	Change from budget estimate
2		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 en-		H	
	vironments			+ 8,750
	Program increase: University assisted hypervelocity		1	
-	testing			+ 2,000
5	Materials Technology	28,600	58,600	+30,000
	Program increase: Advanced polymers			+ 5,000
	Program increase: Highly durable advanced polymers			
	for lightweight armor			+5,000
	Program increase: Materials research for afford-	1		
	ability, performance, and environmental sustain-			
	ability			+10,000
6	Program increase: Advanced materials processing			+10,000
U	Sensors and Electronic Survivability	32,366	85,866	+ 53,500
	Program increase Program increase: Advanced space data exploitation			+ 5,000
	and integration program			
	and integration program Program increase: Agile manufacturing materials			+9,500
	processing			
	Program increase: Open campus initiative			+ 15,000
	Program increase: Small satellite technology devel-			+4,000
	opment			. 00 000
9	Aviation Technology	64,847	76 947	+ 20,000
	Program increase: Adaptive flight controls	, , ,	76,847	+ 12,000
	Program increase: Aviation and missile technology			+7,000
	transfer and innovation			+5.000
11	Missile Technology	50.183	75.183	+ 25,000
	Program increase: Air vehicle development and	00,100	75,165	T 23,000
	sustainment			+ 15,000
	Program increase: Enterprise science and technology			1 13,000
	prototyping			+10,000
12	Advanced Weapons Technology	29,502	34.502	+ 5,000
- 1	Program increase: COE in high-energy laser and op-	,	01,002	1 0,000
- 1	tical technology			+5,000
14	Combat Vehicle and Automotive Technology	70,450	95,450	+25,000
	Program increase: Advanced materials development	.,	,	25,500
	for survivability			+ 15,000
	Program increase: Highly electrified vehicles and in-	1		, 20,000
- 1	frastructure connectivity			+4,000

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[In thousands of dollars]

[In thousands of dollars]					
Line	item	2019 budget estimate	Committee recommendation	Change from budget estimate	
	Program increase: Structural thermoplastics for vehi-				
	0100			+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 com-			. 10.000	
	posite barrels			+10,000	
	Program increase: Novel printed armaments compo-			10.000	
	IIGHES			+ 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			F 000	
	storage systems			+ 5,000	
21	Countermine Systems	21,244	27,244	+ 6,000	
	Program increase: Developing and improving				
	counterIED 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				
	SETISORS	***************************************		+ 8,000	
26	Military Engineering Technology	78,159	98,159	+ 20,00	
	Program increase: Cellulose nanocomposites re-				
	search			+ 15,00	
	Program increase: Innovative construction materials				
	for cold regions			+4,00	
	Program increase: Vehicle-born IED screening			+1,00	
28	Warfighter Technology	40,566	49,566	+ 9,00	
	Program increase: Expeditionary mobile base camp				
	technology			+ 9,00	
31	Medical Advanced Technology	62,496	70,496	+ 8,00	
-	Program increase: Peer-reviewed military burn re-				
	search program			+ 8,00	
32	Aviation Advanced Technology	124,958	133,958	+ 9,00	
	Program increase: Stretch broken composite material				
	forms			+4,00	
	Program increase: Surface tolerant adhesives			+ 5,00	
33	Weapons and Munitions Advanced Technology	102,686	244,503	+ 141,81	
	Program increase: Accelerate ERCA gun			+ 20,00	
	Program increase: High energy laser			+ 20,00	
	Program increase: Long range precision fires			+ 101,81	
34	Combat Vehicle and Automotive Advanced Technology	119,739	166,239	+ 46,50	
	Program increase: Airless tire technology demonstra-				
	tion			+ 4,00	
	Program increase: HMMWV automotive enhancements			+ 10,00	
	Program increase: HMMWV autonomy			+ 3,00	
	Program increase: HMMWV power system			+2,00	
	Program increase: HMMWV torque monitoring			+3,00	
	Program increase: Modular scalable powertrain			+2,50	
	Program increase: Next gen combat vehicle			+7,0	
	Program increase: Combat vehicle weight reduction				
	initiative			+ 10,0	
	Program increase: Multi-sensor augmented reality				
	system for tactical land vehicles			+5,0	
35	Space Application Advanced Technology	13,000	51,000	+ 38,0	
-	Program increase: Network			+2,0	
	Program increase: Assured positioning, navigation,				
	and timing for space and missile defense assets		.,,	+6,0	
	Program increase: Global communications research			+10,0	
	Program increase: Tactical small launch			+ 20,0	
4(		3,762		+ 33,0	
-11	Program increase: Artificial intelligence enabled sen-			1	
	sor networks	l		+8,0	
	OUT HULTTUING AMERICAN AND AND AND AND AND AND AND AND AND A				

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[In thousands of dollars]

Line	Item	2019 budget estimate	Committee recommendation	Change from budget estimate
	Program increase: Enhanced propulsion systems for			
	Program increase: Lightweight, low power radar sys-	·		+ 6,00
	tems			
	Program increase: Long endurance UAV research		***************************************	+8,00
43	Program increase: Open source ISR research	1		+ 8,00 + 3,00
43	Electronic Warfare Technology	31,491	41,491	+10,00
	readiness initiative	1		
44	Missile and Rocket Advanced Technology	£1 129	86,132	+10,00
	Program increase: Cyber security			+ 25,00 + 15,00
	Program increase: Tactically mobile, shoot-on-the- move SHORAD demonstration	1		1 20,000
46	High Performance Computing Modernization Program	102 200		+10,000
	Program increase	183,322	218,322	+ 35,000
47	Landmine Warrare and Barrier Advanced Technology	11,104	17,104	+ 35,000 + 6,000
	Program increase: Multi-sensor drone swarms for		17,104	± 0,000
48	explosive hazard detection			+6,000
	Program increase: Soldier lethality	5,885	22,805	+16,920
50	Environmental Quality Technology Demonstrations	9,136	29.136	+ 16,920 + 20,000
	Program increase: Autonomous transport innovation		23,130	+ 5,000
	Program increase: Environmental sensors for explo- sives	1		. 0,000
	Program increase: Rapid safe advanced carbon			+2,000
	nanotechnology materials			. 0.000
.,	Program increase: Smart bases			+ 8,000 + 5,000
51	Military Engineering Advanced Technology	25,864	95,464	+69,600
	Program increase: Additive manufacturing/3—D print- ing			
	Program Increase: Advanced polymer development		***************************************	+ 2,000
	Program Increase: Bathymetric—tonographic Linax			+20,000
	research			+8,200
1	Program increase: Energy technology research in			+ 2,500
1	cold and artic regions			. 4.000
	Program Increase: ERDC collaboration	- 1	***************************************	+ 4,000 + 2,000
1				+4,000
	Program increase: Reliable distributed energy in			+4,000
	austere environments			1.000
1	Program Increase: Research facility modernization			+ 3,000 + 2,000
	Program increase: Research in the permafrost envi-	1		1 2,000
	Program increase Positions and a			+4,000
	Program increase: Secure and resilient nower gen_		***************************************	+1,000
	eration in cold region environments			+5,000
	Program Increase: Silicon anode technology Program increase: Transportation infrastructure eval-			+ 4,000
	uation system			
A	uvariced factical Computer Science and Sensor Tech-		***************************************	+3,900
1	nology	34,883	43,883	+ 9,000
1	Program increase: Assured position, navigation, and		13,000	1 3,000
A	timing	10.777		+9,000
	Program increase: Counter-UAS mission canabilities	10,777	55,477	+44,700
	Program Increase: Electromagnetic attack and pro-			+ 8,700
	Program increase: Inertial measurement unit hard-			+10,000
	Program increase: Integrated environmental control	·····		+11,000
Ai	and nower			+15,000
	and mound perense dystems Engineering	42,802	49,602	+6,800

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[In thousands of dollars]

ine	ltem .	2019 budget estimate	Committee recommendation	Change from budget estimate
_	Program increase: Interoperability of integrated air			. 20.000
	and missile defense			+20,000
- 1	Restoring acquisition accountability: ALPS lack of di-			- 13.200
- 1	rected requirement	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	C3 E0E	- 55,810
60	Armored System Modernization—Adv Dev	119,395	63,585	- 55,610
	Program increase: Armored advanced fuel cell proto-			+ 5,000
- 1	types			7 3,000
	Restoring acquisition accountability: MFV prototyping			- 60,810
Ш	acceleration ahead of need	10.702	96 102	+ 75,400
66	Aviation_Adv Dev	10,793	86,193	+75.400
		14 249	17,248	+ 3,000
67	Logistics and Engineer Equipment—Adv Dev	14,248	17,240	1 0,000
- 1	Program increase: Tactical electric program research	1		+ 3,000
- 0		24.204	37,284	+ 3,000
68	Medical Systems—Adv Dev	34,284		+3,000
Ì		05 550	72,260	- 23,40
70	Robotics Development	95,660	72,200	
	Restoring acquisition accountability: RCV Phase 2			-23,40
			,	,
71	Cross Functional Team (CFT) Advanced Development &	38,000	25,000	- 13,00
	Prototyping	30,000	20,000	
	Program increase: Early long range precision fires	-		+ 25,00
	hypersonic capability			- 38.00
	Restoring acquisition accountability: Lack of strategy	120,374	87.874	-32,50
74	Lower Tier Air Missile Defense (LTAMD) Sensor	120,314	07,077	,
	Restoring acquisition accountability: TMRR contract			- 24,00
	excess funding			= -
	Restoring acquisition accountability: Test funding			-8,50
	ahead of need	95,085	56,085	-39,00
76	Maneuver—Short Range Air Defense (M-SHORAD)	20,000	30,000	
	Restoring acquisition accountability: Program growth			- 39,0
	ahead of acquisition strategy	65,817	47,417	-18.40
81	Cyberspace Operations Forces and Force Support	03,017	1,,,,,,	· ·
	Restoring acquisition accountability: Funding ahead			- 5,4
	of requirements finalization			-13.0
	Reduce duplication: CORA-P funded in line 177	146,300	111,300	-35.0
82	Assured Positioning, Navigation and Timing (PNT)	140,000	122,000	
	Improving funds management: Prior year carryover			-35,0
	due to program delay	78,699	58,699	-20,0
85	Electronic Warfare Development	70,033	44,	1
	Restoring acquisition accountability: Funding excess		,	- 20,0
	to need	83.155	57,355	- 25,8
89	Infantry Support Weapons			1
	Program increase: Soldier enhancement program	***************************************		
	Restoring acquisition accountability: NGSAR EMD			-22,
	funding ahead of need			
	Restoring acquisition accountability: Small arms fire control funding ahead of requirement	,		- 10,0
	control funding allead of fequilienters.	10,623	= 000	
91	JAVELIN			
	Restoring acquisition accountability: Lightweight 020	,,,		
	development delay	8,212		
9	Restoring acquisition accountability: Excess GMV	.,	1	
	test funding			. – 2,
	Restoring acquisition accountability: JLTV-RV test		1	
	funding ahead of need			
_	TUNGING AREAU UI IREU		400.01	
9	7 Night Vision Systems—Eng Dev	223,02		
	Restoring acquisition accountability: Envior-B follow-	,		-1
	on test funding ahead of need	4,507	7.50	
9	8 Combat Feeding, Clothing, and Equipment		1	+3
	Program increase: Modular glove system	49,43	. 44.40	· 1 _
9	Non-System Training Devices—Eng Dev	43,430		
	Insufficient budget justification: Unjustified request Air Defense Command, Control and Intelligence—Eng Dev	95,17		
10	00   Air Defense Command, Control and Intelligence—Elig Dev	30,17		

 $175 \\ \hbox{[in thousands of dollars]}$ 

Line	ltem	2019 budget estimate	Committee recommendation	Change from budget estimate
	Program increase: All digital radar			+ 8,000
	Improving funds management: Prior year carryover			- 15,000
102		13,297	10,697	-2,600
101	Improving funds management: Prior year carryover			- 2,600
104		9,894	6,894	3,000
107	Improving funds management: Prior year carryover	100.100	104.050	-3,000
107	Weapons and Munitions—Eng Dev Program increase: Test and evaluation of M999 155mm	183,100	184,959	+ 1,859
	Restoring acquisition accountability: NGSW ammo EMD funding ahead of need			+ 12,000 4,250
	Improving funds management: AMP fuze risk reduc-			5.891
111	Landmine Warfare/Barrier—Eng Dev	50.817	45,117	-5,700
	Improving funds management: Prior year carryover	30,017		-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		32,304	- 16,300
119	Information Technology Development	113,758	80,376	- 33,382
	Insufficient budget justification: AcqBiz unjustified	110,750	00,070	33,302
	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 man-			
100				-1,500
128	Common Infrared Countermeasures (CIRCM)	51,178	25,178	-26,000
	Improving funds management: Prior year carryover			20.000
131	due to program delay			- 26,000
131	(NBCRV) Sensor Suite	17,154	13,054	4 100
	Improving funds management: Excess test funding	17,134	10,004	- 4,100
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			-4.100
132	Defensive CYBER Tool Development	36,626	30,126	-6.500
				-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
				-12,000
138	Ground Robotics	86,167	61,549	-24,618
	Transfer ground robotics MTRS standardization:			
				-4,618
	Restoring acquisition accountability: CRS-I contract			10.000
				- 12,000
139		42,866	68,266	- 8,000 + 25,400
100	B 1 10 11 11 11 11 11 11 11 11 11 11 11 1			+ 25,400 + 25,400
142	Army Integrated Air and Missile Defense [AIAMD]	277,607	322,607	+ 45,000
	Program increase: Accelerated integration to counter	2,7,007	02E,007	1 40,000
	t at the second			+30,000
			***************************************	+ 15,000
144	Joint Light Tactical Vehicle (JLTV) ED			-2,686
	Restoring acquisition accountability: Funds excess to	-,		2,550
	and the second s			-2,686
45	Aviation Ground Support Equipment	2,706	7,706	+ 5,000
	Program increase: Next generation health monitoring			
- 1	system			+5,000

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[in thousands of dollars]

Line	item	2019 budget estimate	Committee recommendation	Change from budget estimate
152	Threat Simulator Development	12,835	28,835	+ 16,000
	threat simulators			+ 6,000
	Program increase: Threat cyberspace operations		20.125	+ 10,000
153	Target Systems Development	12,135	32,135	+ 20,000
	Program increase: Cyber virtualization center		100.000	+ 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 sys- tem-of-system cyber security testing			+ 10,000
	Program increase: Directed energy workloads man-			
	agement			+ 15,000
160	Army Technical Test Instrumentation and Targets	62,379	84,879	+ 22,500
	Program increase: Cyber security of space and mis-			
	sile 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 ammu-			
	nition			+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 man-			
	agement excess growth			-2,000
187	Apache Product Improvement Program	31,049	24,049	- 7,000
	Restoring acquisition accountability: Product devel-			
	opment previously funded		*************************	-6,000
	Restoring acquisition accountability: Testing pre-			
	viously funded			-1,000
189	Chinook Product Improvement Program	157,822	153,822	-4,000
	Restoring acquisition accountability: Program man-			
	agement 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 Devel-			
	opment	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		-:
	Program termination	.,,,,,,		-:
200	Combat Vehicle Improvement Programs	411,927	336,427	- 75,50
	Program increase: Advanced Abrams thermal man-			
	agement 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 ex-			.,,,,,
	cess funding due to test delay			- 5,00
	Restoring acquisition accountability: Abrams ECP V4			,,,,,
			1	

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[In thousands of dollars]

Line	ltem .	2019 budget estimate	Committee recommendation	Change from budget estimate
	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 - 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			<b>- 485</b>
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			
217	of need			-15,000
21/	Information Systems Security Program	68,533	46,017	-22,516
	Restoring acquisition accountability: Program delay			+ 18,500
218	Global Combat Support System	68,619	48.884	- 41,016 19,735
	Restoring acquisition accountability: Business intel- ligence/Business warehouse funding ahead of	00,019	40,004	19,733
	need		***************************************	- 8,584
	tioned 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 Improving funds management: Test funding excess			- 5,000
	to need			-5,000
	Restoring acquisition accountability: CD3 funding			
233	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
	Program increase: Nanoscale and microscale mate-			. 00 000
	rials Program increase: Power take off hybridization		***************************************	+20,000
	Trablem meredee. I effet take bit 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 na-

tional 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 accel-

eration 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 protection, 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 feed-

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back 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.

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# 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	ltem	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		
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	

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[In thousands of dollars]

іпе.	ltern	2019 budget estimate	Committee recommendation	Change from budget estimat
38	SURFACE SHIP TORPEDO DEFENSE	8,570	8,570	
39	CARRIER SYSTEMS DEVELOPMENT	5,440	5,440	
40	PILOT FISH	162,222	138,722	- 23,50
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	-5,08
46	SUBMARINE TACTICAL WARFARE SYSTEMS	9,374	12,374	+3,00
47	SHIP CONCEPT ADVANCED DESIGN	89,419	116,419	+ 27,00
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	+ 5,00
51	CHALK EAGLE	29,744	29,744	
52	LITTORAL COMBAT SHIP [LCS]	27,997	27,997	
53	COMBAT SYSTEM INTEGRATION	16,351	27,051	+ 10,70
54	OHIO REPLACEMENT PROGRAM	514,846	542,846	+28,00
55	LITTORAL COMBAT SHIP [LCS] MISSION MODULES	103,633	103,633	
	AUTOMATED TEST AND RE-TEST	7,931	7,931	
56	FRIGATE DEVELOPMENT	134,772	134,772	
57		9.307	9,307	
58	CONVENTIONAL MUNITIONS MARINE CORPS GROUND COMBAT/SUPPORT SYSTEM	1.828	1,828	
60	MAKINE COKYS GROUND COMBAI/SUFFORT STSTEM	43,148	43,148	
61	JOINT SERVICE EXPLOSIVE ORDNANCE DEVELOPMENT	5.915	5.915	
62	OCEAN ENGINEERING TECHNOLOGY DEVELOPMENT	171.11	19,811	
63	ENVIRONMENTAL PROTECTION	19,811	32,656	+7.0
64	NAVY ENERGY PROGRAM	25,656		· '
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,C
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	— 9,8
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, <sup>2</sup>
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	
	RAPID PROTOTYPING, EXPERIMENTATION AND DEMONSTRATION	48,796	33,796	- 15,0
82	LADOR UNIMARKED UNDERSEA VEHICLES	92,613	45,613	- 47,0
83	LARGE UNMANNED UNDERSEA VEHICLES	58,121	83,121	+ 25,0
84	GERALD K. FURD CLASS NUGLEAR AIRCRAFT CARRIER	17,622	17,622	
86	LITTORAL AIRBORNE MCM		18,154	
87	SURFACE MINE COUNTERMEASURES	18,154	47,278	1
88	TACTICAL AIR DIRECTIONAL INFRARED COUNTERMEASURES	47,278		- 4,9
90	NEXT GENERATION LOGISTICS	11,081	6,135	
92	RAPID TECHNOLOGY CAPABILITY PROTOTYPE	7,107	7,107	
93	LX (R)	5,549	5,549	
94	ADVANCED UNDERSEA PROTOTYPING	87,669	112,669	+ 25,0 - 12.9
95	PRECISION STRIKE WEAPONS DEVELOPMENT PROGRAM	132,818	119,918	- 12,
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	- 14,0
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	— 94,8
	ENGINEERING & MANUFACTURING DEVELOPMENT			
103	TRAINING SYSTEM AIRCRAFT	12,798	12,798	,
	OTHER HELO DEVELOPMENT	32,128	32,128	

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Line	ltem	2019 budget estimate	Committee recommendation	Change from budget estimate
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	+ 14,50
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	***************************************
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
142 144	NAVY TACTICAL COMPUTER RESOURCES	4,642	4,642	
145	MINE DEVELOPMENT	25,756	25,756	
145	LIGHTWEIGHT TORPEDO DEVELOPMENT	95,147	63,147	-32,000
147	JOINT SERVICE EXPLOSIVE ORDNANCE DEVELOPMENT	7,107	7,107	
148	PERSONNEL, TRAINING, SIMULATION, AND HUMAN FACTORS	6,539	6,539	•
149	JOINT STANDOFF WEAPON SYSTEMS	441	441	***************************************
150	SHIP SELF DEFENSE (DETECT & CONTROL)	180,391	180,391	
151	SHIP SELF DEFENSE (ENGAGE: HARD KILL)	178,538	182,538	+4,000
152	INTELLIGENCE ENGINEERING	120,507	120,507	
153	MEDICAL DEVELOPMENT	29,715	29,715	
154	NAVIGATION/ID SYSTEM	8,095	8,095	
155	JOINT STRIKE FIGHTER (JSF)—EMD	121,026	121,026	
156	JOINT STRIKE FIGHTER (JSF)	66,566	. 66,566	
159	INFORMATION TECHNOLOGY DEVELOPMENT	65,494	65,494	••••••
160	INFORMATION TECHNOLOGY DEVELOPMENT	14,005	14,005	
161	ANTI-TAMPER TECHNOLOGY SUPPORT	268,567	218,567	- 50,000
162	CH-53K	5,618	5,618	
64	MISSION PLANNING	326,945	331,945	+5,000
165	COMMON AVIONICS	32,714	32,714	
166	SHIP TO SHORE CONNECTOR (SSC)	51,486 1,444	51,486	
67	T-A0 (X)		1,444	
168	UNMANNED CARRIER AVIATION	1,298	1,298	50.000
II	JOINT AIR-TO-GROUND MISSILE [JAGM]	718,942 6,759	668,942	- 50,000
	MULTI-MISSION MARITIME AIRCRAFT [MMA]	37,296	16,559	+ 9,800
	MULTI-MISSION MARITIME AIRCRAFT [MMA] INCREMENT 3			••••••••••
	MARINE CORPS ASSAULT VEHICLES SYSTEM DEVELOPMENT AND DEMO	160,389 98,223		40.200
74	JOINT LIGHT TACTICAL VEHICLE (JLTV) SYSTEM DEVELOPMENT AND DEMO		48,923	- 49,300 - 2,260

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	[in thousands of dollars]			
Line	Item	2019 budget estimate	Committee recommendation	Change from budget estimate
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 DEVELOP- MENT	6,042,480	6,050,820	+ 8,340
400	RDT&E MANAGEMENT SUPPORT	04.576	04.570	
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	
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	
203	ASSESSMENTS AND EVALUATIONS CYBER VULNERABILITIES	48,800	48,800	
205	INSIDER THREAT	1,682	1,682	
206	MANAGEMENT HEADQUARTERS (DEPARTMENTAL SUPPORT AC-			
208	TIVITIES) SEW SURVEILLANCE/RECONNAISSANCE SUPPORT	1,579 8,684	1,579 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	
731 1				

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[In thousands of dollars]

Line	ltem	2019 budget estimate	Committee recommendation	Change from budget estimate
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	
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
999	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 Program increase: Aircraft fleet readiness and			+ 25,000
	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 pro-			,
	gram	*****		+ 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 re-			
	search			+ 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

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[In thousands of dollars]

		2019 budget	Committee	Change from
.ine	Item	estimate	recommendation	budget estimate
	Program increase: Interdisciplinary expeditionary			
	cybersecurity research			+ 5,00
	Program increase: Marine Corps asset life-cycle man- agement		<u></u>	+ 2,00
8	Warfighter Sustainment Applied Research	56,197	61,282	+ 5,08
•	Transfer from line 23: Retain previous budget structure			+ 2,68
	Program increase			+ 2,40
10	Ocean Warfighting Environment Applied Research	42,998	79,998	+ 37.00
	Program increase: Acoustics research	,		+ 2,00
	Program increase: Multi-modal detection research			+10.00
	Program increase: Naval Special Warfare superiority in			·
	undersea and maritime environments			+10.00
	Program increase: Persistent maritime surveillance			+15,00
12	Undersea Warfare Applied Research	58,049	78,049	+20,00
	Program increase			+20,00
19	Force Protection Advanced Technology	2,423	36,557	+ 34,13
	Transfer from line 23: Retain previous budget structure			+ 34,13
20	Electromagnetic Systems Advanced Technology		8,804	+8,80
	Transfer from line 23: Retain previous budget structure	,		+ 8,80
21	USMC Advanced Technology Demonstration [ATD]	150,245	177,245	+ 27,00
	Program increase: Common unmanned aerial vehicle			
	simulation system			+ 10,00
	Program increase: Flight motion simulator and testing of			
	UAVs			+6,00
	Program increase: Modular advanced armed robotic sys-			
	tem 2.0			+ 4,00
	Program increase: UAS air-delivered extended range			
	munitions demo			+7,00
23	Navy Advanced Technology Development [ATD]	131,502		-131,50
	Transfer to line 19: Retain previous budget structure			- 34,13
	Transfer to line 20: Retain previous budget structure			- 8,80
	Transfer to line 26: Retain previous budget structure		•••••	- 4,87
	Transfer to line 28: Retain previous budget structure			- 67,83
	Transfer to line 29: Retain previous budget structure		•••••	- 13,17
	Transfer to line 8: Retain previous budget structure	222.000	040.400	- 2,68
24	Future Naval Capabilities Advanced Technology Development	232,996	240,496	+7,50
	Program increase: Advanced development of high yield			. 7 50
20	conventional energetics		0.977	+ 7,50 + 9,87
26	Warfighter Protection Advanced Technology		9,877	+ 4,87
	Transfer from line 23: Retain previous budget structure			+4,07
	Program increase: Novel therapeutic interventions re- search			+5,00
28	Navy Warfighting Experiments and Demonstrations		67,830	+ 67,83
20	Transfer from line 23: Retain previous budget structure		07,030	+ 67,830
29	Mine and Expeditionary Warfare Advanced Technology		13,172	+ 13,17
23	Transfer from line 23: Retain previous budget structure			+ 13,17
30	Innovative Naval Prototypes (INP) Advanced Technology Devel-			. 20,21
00	opment	161,859	275.859	+ 114,00
	Program increase: Electromagnetic railgun		2,0,000	+ 15.00
	Program increase: Rail gun with hypervelocity projectile		***************************************	+ 99.00
36	Advanced Combat Systems Technology	59,741	56,831	- 2,91
00	Maintaing program affordability: Project 3422 unjustified	00,7.12		_,
	program growth	***************************************		- 2,910
37	Surface and Shallow Water Mine Countermeasures	62,727	122,827	+60,10
	Program increase: Medium displacement unmanned sur-			
	face vehicle	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		+ 42,00
	Program increase: Navy identified MCM USV requirement			+ 14,10
	Program increase: Navy identified UISS requirement			+4,00
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

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[In thousands of dollars]

Line	ltem	2019 budget estimate	Committee recommendation	Change from budget estimate
	Program increase: Advanced submarine electronic war- fare 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 fa-			
	cility 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
	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 addi-	,	,	02,100
	tional 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	40,730	30,730	10,000
	adjustment			-15,000
83	Large Unmanned Undersea Vehicles	92,613	45,613	-47,000
00	Transfer funding to XLUUV: Transfer to line 94 for up-	52,015	. 45,015	-47,000
	dated acquisition strategy			- 25,000
	Restoring acquisition accountability: Change in acquisi-	***************************************	***************************************	- 23,000
	tion strategy to accelerate delta design			- 22,000
84	Gerald R. Ford Class Nuclear Aircraft Carrier (CVN 78—80)	58,121	83,121	- 22,000 + 25,000
04	Transfer funding from SCN: CVN 78 Full Ship Shock	30,121	03,121	+ 23,000
	Trial			+ 25,000
90	Expeditionary Logistics	11,081	£ 125	- 4.946
30	Program termination: Project 2743	11,001	6,135	
94	Advanced Undersea Prototyping			- 4,946
34	Transfer funding from LDUUY: Updated acquisition strat-	87,669	112,669	+ 25,000
				. 25 000
95	Province Strike Wassers Development Program	120.010	110.010	+ 25,000
33	Precision Strike Weapons Development Program	132,818	119,918	12,900
	Restoring acquisition accountability: Project 3378 sched-			10.000
97	ule delays	140.000		- 12,900
97	Offensive Anti-Surface Warfare Weapon Development	143,062	143,062	
	Restoring acquisition accountability: Additional capabili-			
	ties program adjustment —transfer to fully fund			
	operational test requirements for additional capabili-			
	ties			[-20,000T
	Restoring acquisition accountability: Transfer from addi-			
- 0	tional capabitlities to fully fund operational test re-			
	quirements for additional capabilities			[ + 20,000]
100	Advanced Tactical Unmanned Aircraft System	25,291	11,291	- 14,000
	Restoring acquisition accountaiblity: Project 3135 pro-			
	gram 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 moni-			
	toring			+10,000

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ine	ftem	2019 budget estimate	Committee recommendation	Change from budget estima
119	EA-18	147,419	242,719	+ 95,30
	measures research			+ 95,30
120	Electronic Warfare Development	89,824	115,224	+ 25,40
	Program termination: UAS EW Payload			6,20
	Program increase: EA-18G offensive airborne electronic	1		
	attack special mission pod			+ 31,60
125	Next Generation Jammer [NGJ] Increment II	115,253	99,253	-16,00
	Restoring acquisition accountability: Technology dem-			10.00
	onstration contracts award delays			- 16,00
126	Surface Combatant Combat System Engineering	397,403	396,403	-1,0
	Restoring acquisition accountability: Far Term Interoper-			11.0
	ability Improvement Plan unjustified growth			- 11,0
	AEGIS force-level interoperability definition and analysis	105.001	100.001	+ 10,00
.29	Standard Missile Improvements	165,881	190,881	+ 25,0 + 25,0
	Program increase: SM-6 electronics unit	0.710	12 710	+ 4,00
.35	Shipboard Aviation Systems	9,710	13,710	+ 4,0
	Program increase: Improving aircraft carrier readiness	140 222	160,233	+ 12,0
39	New Design SSN	148,233		+ 12,0
	Program increase: New design SSN	60,824	65,824	+ 5,0
40	Submarine Tactical Warfare System			+ 5,0
	Program increase: Submarine tactical warfare system	60,062	71,062	+11,0
41	Ship Contract Design/ Live Fire T&E	00,002	71,002	T 11,0
	Program increase: DDG 51 advance degaussing mine			+ 5,0
	protection system retrofit			1 3,0
	Program increase: Planning to support FY 2021 award			+6,0
	of LHA-9	95,147	63,147	- 32,0
45	Lightweight Torpedo Development	95,147	03,147	- 32,0
	Restoring acquisition accountability: Project 3418 post-			- 32.0
ΕŊ	system design and engineering funds early to need	178,538	182,538	+ 4.0
50	Ship Self Defense (Engage: Hard Kill) Program increase: Condition based maintenance	170,550	102,330	+ 4,0
cn		268,567	218.567	- 50,0
60	Information Technology Development	200,307	210,507	30,0
	Improving funds management: Project 2905 excess pro- gram growth			35,0
	Improving funds management: Project 3432 excess pro-	***************************************		00,0
	gram growth and concurrency	pagg		-25,0
	Program increase: Advanced radar condition based			20,0
	maintenance	Marco 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		+10,0
62	CH-53K RDTE	326,945	331,945	+ 5,0
UZ.	Program increase: Common lightweight cargo system			+ 5,0
68	Unmanned Carrier Aviation (UCA)	718,942	668,942	- 50,0
00	Improving funds management: Test equipment early to	710,0-12	330,312	
	need	***************************************		-50,0
69	Joint Air—to—Ground Missile [JAGM]	6,759	16,559	+ 9,8
03	Program increase: Marine Corps joint air-to-ground	0,,,00		,-
	missile for fixed wing aircraft			+ 9,8
73	Marine Corps Assault Vehicles System Development & Dem-			
10	onstration	98,223	48.923	-49,3
	Restoring acquisition accountability: Project 0026 excess	00,===	,	
	concurrency			- 49,3
74	Joint Light Tactical Vehicle (JLTV) System Development &			
, ,	Demonstration	2,260	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-2,2
	Improving funds management: Funds excess to need		,	-2,2
75	DDG-1000	161,264	140,264	- 21,0
	Restoring acquisition accountability: Program adjust-		·	
	ment due to lack of acquisition and test strategies		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	- 21,0
80	Tactical Cryptologic Systems	44,098	52,998	+ 8,9
	Program increase: Integrated fires acceleration			+8,9
85	Major T&E Investment	77,014	183,014	+106,0
,,	Program increase			+100,0
	Program increase: Ground based sense-and-avoid		,,,	+6,0
96	Test and Evaluation Support	373,834	473,834	+100,0
	Program increase			+100.0

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[In thousands of dollars]

Line	item	2019 budget estimate	Committee recommendation	Change from budget estimate
211	Operational F-35 C2D2	259,122	199,560	- 59,562
	tract award delays  Restoring acquisition accountability: C2D2 flight test			- 18,384
	contract award delays			-5,335
	Improving funds management: ECASE excess growth Improving funds management: Developmental Founda-			-7,904
	tion excess growth	***************************************		- 24,554
212	growth	252,360	104 252	-3,385
-1-	Restoring acquisition accountability: C2D2 Phase 2 contract award delays	232,300	194,352	- 58,008 - 17,004
	Restoring acquisition accountability: C2D2 flight test contract award delays			- 17,904 - 5,196
	Improving funds management: ECASE excess growth Improving funds management: Developmental Founda-			- 7,697
	tion excess growth			-23,913
215	growth			-3,297
215	Strategic Sub & Weapons System Support	157,679	167,879	+ 10,200
	sensor network			+2,700
219	F/A-18 Squadrons Program increase: Navy joint air-to-ground missile for	193,086	202,886	+ 7,500 + 9,800
220	fixed wing aircraft			+ 9,800
220	Fleet Telecommunications (Tactical)  Program termination: High frequency over-the-horizon	25,014	1,344	-23,670
223	robust enterprise	36,959	71,959	- 23,670 + 35,000
221	Program increase: Additional TRAPS units			+35,000
231	Tactical Data Links	104,696	116,696	+12,000
233	acceleration	94,155	68,255	+ 12,000 25.900
	Improving funds management: TI-1 phasing			- 25,900
234	Aviation Improvements	121,805	138,805	+ 17,000
	electronic maintenance aids			+2,000
243	Program increase: F/A—18E/F engine enhancements  Advanced Medium Range Air—to—Air Missile (AMRAAM)  Restoring acquisition accountability: Systems improve—	32,473	27,473	+ 15,000 5,000
	ment program acceleration and growth			- 5.000
258	MQ-8 UAV	9,843	24,143	+14,300
	Program increase: Radar integration Program increase: Weapons capability integration			+ 5,500
266	Depot Maintenance (Non-IF)	36,560	46,560	+ 8,800 + 10,000
	Program increase: MH-60 SLAP			+ 10,000
267	Maritime Technology (MARITECH) Program increase: Advanced additive technologies for	7,284	27,284	+ 20,000
XXX	sustainment of Navy assets	1 540 503	1 557 202	+ 20,000
۸۸۸	Classified Programs	1,549,503	1,557,303	+ 7,800 + 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 care

pability 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 management 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 pro-

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.

Future Šurface Čombatant.—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 committees 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 require-

ments.

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 com-

pleted. 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 estimates

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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-theart 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

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 identi-

fied 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 antiship 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.

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# RESEARCH, DEVELOPMENT, TEST AND EVALUATION, AIR FORCE

Appropriations 9019	A07 400 070 000
Appropriations, 2018	\$37,428,078,000
Budget estimate, 2019	40,178,343,000
Committee manner - 1-ti	40,110,040,000
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	1
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Line	ltem	2019 budget estimate	Committee recommendation	Change from budget estimat
	RESEARCH, DEVELOPMENT, TEST & EVAL, AIR FORCE			
	BASIC RESEARCH			
1	DEFENSE RESEARCH SCIENCES	348.322	448,322	+100,00
2	UNIVERSITY RESEARCH INITIATIVES	154,991	179,991	+ 25.00
3	HIGH ENERGY LASER RESEARCH INITIATIVES	14,506	14,506	
	TOTAL, BASIC RESEARCH	517,819	642,819	+ 125.00
	APPLIED RESEARCH			
4	MATERIALS	125,373	161,373	+36,00
5	AEROSPACE VEHICLE TECHNOLOGIES	130,547	147,047	+16,50
6	HUMAN EFFECTIVENESS APPLIED RESEARCH	112,518	114,018	+ 1,50
7	AEROSPACE PROPULSION	190,919	230,419	+39,50
8	AEROSPACE SENSORS	166,534	171,534	+5,00
9	SCIENCE AND TECHNOLOGY MANAGEMENT—MAJOR HEAD- QUARTERS	0.000	0.000	
11	CONVENTIONAL MUNITIONS	8,288	8,288	***************************************
12	DIRECTED ENERGY TECHNOLOGY	112,841	112,841	
13	DOMINANT INFORMATION SCIENCES AND METHODS	141,898	141,898	
14	HIGH ENERGY LASER RESEARCH	162,420	175,420	+ 13,00
15	SPACE TECHNOLOGY	43,359	45,859	+ 2,50
		117,645	121,645	+ 4,000
	TOTAL, APPLIED RESEARCH	1,312,342	1,430,342	+ 118,000
	ADVANCED TECHNOLOGY DEVELOPMENT	1		
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
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 28	MANUFACTURING TECHNOLOGY PROGRAM	42,025	65,825	+ 23,800
20	BATTLESPACE KNOWLEDGE DEVELOPMENT & DEMONSTRATION	51,064	51,064	
	TOTAL, ADVANCED TECHNOLOGY DEVELOPMENT	814,797	919,097	+ 104,300
.	ADVANCED COMPONENT DEVELOPMENT	1		
30	INTELLIGENCE ADVANCED DEVELOPMENT	5,568		
32	COMBAT IDENTIFICATION TECHNOLOGY	18,194		***************************************
33	NATO RESEARCH AND DEVELOPMENT	2,305		
55	INTERCONTINENTAL BALLISTIC MISSILE	41,856		
16	POLLUTION PREVENTION—DEM/VAL		200	+ 200
37	LONG RANGE STRIKE	2,314,196	2,276,496	-37,700
58	INTEGRATED AVIONICS PLANNING AND DEVELOPMENT	14,894	81,271	+ 66.377

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Line	ltem	2019 budget estimate	Committee recommendation	Change from budget estimate
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
	CYBER RESILIENCY OF WEAPON SYSTEMS—ACS	62.618	62,618	
43		28,350	28,350	
46	DEPLOYMENT AND DISTRIBUTION ENTERPRISE R&D	1,186,075	195,462	- 990,613
48	TECH TRANSITION PROGRAM		651,355	+ 651,35
48A	ADVANCED ENGINE DEVELOPMENT		558,058	+ 558,058
48B	HYPERSONICS PROTOTYPING			
48C	DIRECTED ENERGY PROTOTYPING		150,000	+ 150,00
49	GROUND BASED STRATEGIC DETERRENT	345,041	345,041	111.00
50	NEXT GENERATION AIR DOMINANCE	503,997	392,997	-111,00
51	THREE DIMENSIONAL LONG-RANGE RADAR	40,326	25,426	— 14,90
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)	21,011		
OU	(SPACE)	286,629	256,629	- 30,00
0.1		7,940	7,940	
61	EO/IR WEATHER SYSTEMS	138,052	138,052	
62	WEATHER SYSTEM FOLLOW-ON			-10,00
63	SPACE SITUATION AWARENESS SYSTEMS	39,338	29,338	
64	MIDTERM POLAR MILSATCOM SYSTEM	383,113	383,113	15.00
65	SPACE CONTROL TECHNOLOGY	91,018	76,018	- 15,00
66	SPACE SECURITY AND DEFENSE PROGRAM	45,542	45,542	
67	PROTECTED TACTICAL ENTERPRISE SERVICE (PTES)	51,419	46,419	5,00
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	+5,00
	TOTAL, ADVANCED COMPONENT DEVELOPMENT	6,529,943	6,709,420	+ 179,47
	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	+ 50,00
76	PHYSICAL SECURITY EQUIPMENT	14,421	14,421	
74	SMALL DIAMETER BOMB [SDB]	73,158	78,158	+ 5,00
	AIRBORNE ELECTRONIC ATTACK	7,153	7,153	
81		58,590	58,590	
83	ARMAMENT/ORDNANCE DEVELOPMENT	2,990	2,990	441
84	SUBMUNITIONS		23,528	+ 3,50
85	AGILE COMBAT SUPPORT	20,028		
86	JOINT DIRECT ATTACK MUNITION	15,787		-15,7
87	LIFE SUPPORT SYSTEMS	8,919	8,919	
88	COMBAT TRAINING RANGES	35,895	43,895	+8,0
89	F-35—EMD	69,001	69,001	
91	LONG RANGE STANDOFF WEAPON	614,920	624,920	+10,0
92	ICBM FUZE MODERNIZATION	172,902	172,902	
97	KC-46	88,170	80,170	- 8,0
98	ADVANCED PILOT TRAINING	265,465	265,465	
99	COMBAT RESCUE HELICOPTER	457,652	384,652	-73,0
	ACQUISITION WORKFORCE—GLOBAL BATTLE MANAGEMENT	3,617	3,617	
105		261,758	261,758	
106	B-2 DEFENSIVE MANAGEMENT SYSTEM		84,907	-7,0
107	NUCLEAR WEAPONS MODERNIZATION	91,907		
108	F-15 EPAWSS	137,095	137,095	
109	STAND IN ATTACK WEAPON	43,175	14,975	
110	ADVANCED COMMUNICATIONS SYSTEMS	14,888	14,888	
111	FULL COMBAT MISSION TRAINING	1,015	1,015	
			30,000	+ 30,0
112				

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117 118 119 120	ltem	2019 budget estimate	Committee	Change from
118 119 120			recommendation	budget estimate
119 120	PRESIDENTIAL AIRCRAFT REPLACEMENT	673,032	616,372	- 56,660
120	AUTOMATED TEST SYSTEMS	13,653	13,653	
	COMBAT SURVIVOR EVADER LOCATOR	939	939	
121	GPS IIIC	451,889	401,889	50,000
121 122	SPACE SITUATION AWARENESS OPERATIONS	46,668	46,668	
123	COUNTERSPACE SYSTEMS	20,676	20,676	
124	SPACE FENCE	134,463 20,215	134,463	
125	ADVANCED EHF MILSATCOM (SPACE)	151,506	20,215 151,506	
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
		243,447	443,447	+200,000
	TOTAL, ENGINEERING & MANUFACTURING DEVELOP- MENT	5,272,191	5,489,544	+ 217,353
131	RDT&E MANAGEMENT SUPPORT THREAT SIMULATOR DEVELOPMENT			
132	MAJOR T&E INVESTMENT	34,256	34,256	
133	RAND PROJECT AIR FORCE	91,844	266,844	+175,000
135	INITIAL OPERATIONAL TEST & EVALUATION	34,614 18,043	34,614 18.043	
136	TEST AND EVALUATION SUPPORT	692,784	697,784	E 000
137	ACQ WORKFORCE-GLOBAL POWER	233,924	226,075	+ 5,000 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
142 143	ACQ WORKFORCE—CAPABILITY INTEGRATION	226,219	221,126	-5,093
144	ACQ WORKFORCE-ADVANCED PRGM TECHNOLOGY	38,400	32,796	- 5,604
147	MANAGEMENT HQ—R&D	125,761	123,175	- 2,586
148	FACILITIES RESTORATION & MODERNIZATION—TEST & EVAL	10,642 162,216	9,815	- 827
	FACILITIES SUSTAINMENT—TEST AND EVALUATION SUPPORT	28,888	262,216 28,888	+100,000
150	REQUIREMENTS ANALYSIS AND MATURATION	35,285	48,285	+ 13,000
153	ENTERPRISE INFORMATION SERVICES (EIS)	20,545	00,000	
154	ACQUISITION AND MANAGEMENT SUPPORT	12,367		
155	GENERAL SKILL TRAINING	1,448	المدماء	
157	INTERNATIONAL ACTIVITIES	3,998	3,998	
158 159	SPACE TEST AND TRAINING RANGE DEVELOPMENT	23,254		
	SPACE AND MISSILE CENTER (SMC) CIVILIAN WORKFORCE	169,912		
161	SPACE & MISSILE SYSTEMS CENTER—MHAROCKET SYSTEMS LAUNCH PROGRAM (SPACE)	10,508		
162	SPACE TEST PROGRAM (STP)	19,721		
	_	25,620	25,620	
	TOTAL, RDT&E MANAGEMENT SUPPORT OPERATIONAL SYSTEMS DEVELOPMENT	2,839,511	3,055,745	+216,234
65	SPECIALIZED UNDERGRADUATE FLIGHT TRAINING	11 544		
67	AIR FORCE INTEGRATED MILITARY HUMAN RESOURCES SYSTEM	11,344		
68	ANTI-TAMPER TECHNOLOGY EXECUTIVE AGENCY	47,287 32,770	41,102	-6,185
69   1	FOREIGN MATERIEL ACQUISITION AND FXPI DITATION	68,368	00.000	
70   1	HC/MC-130 RECAP RDT&E	32,574	20.574	
.71   1	NC3 INTEGRATION	26,112	19,312	- 6,800
.72   1	ASSESSMENTS AND EVALUATIONS CYBER VULNERABILITIES	99,100	75,950	-23,150
73   E	3-52 SQUADRONS	280,414	329,173	+ 48,759
74 /	AIR-LAUNCHED CRUISE MISSILE [ALCM]	5,955		
	3-1B SQUADRONS	76,030	63,230	-12,800
76   E 77   N	3-2 SQUADRONS	105,561		
	VORLDWIDE JOINT STRATEGIC COMMUNICATIONS	156,047		
	NTEGRATED STRATEGIC COMMUNICATIONS	10,442	18,442	+ 8,000
81 1	CBM REENTRY VEHICLES	22,833 18,412		

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Line	ltem	2019 budget estimate	Committee recommendation	Change from budget estimate
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	<b>– 5,700</b>
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
	F–35 SQUADRONS	549,501	428,315	121,186
193	TACTICAL AIM MISSILES	37,230	37,230	
194	ADVANCED MEDIUM RANGE AIR-TO-AIR MISSILE (AMRAAM)	61,393	51,293	-10,100
195		647	647	
196	COMBAT RESCUE—PARARESCUE	14,891	14.891	
198	PRECISION ATTACK SYSTEMS PROCUREMENT	13,901	13,901	
199	COMPASS CALL	121,203	121,203	
200	AIRCRAFT ENGINE COMPONENT IMPROVEMENT PROGRAM		42,472	- 17,59
202	JOINT AIR-TO-SURFACE STANDOFF MISSILE [JASSM]	60,062		-17,330
203	AIR AND SPACE OPERATIONS CENTER [AOC]	106,102	106,102	
204	CONTROL AND REPORTING CENTER [CRC]	6,413	10,413	+4,00
205	AIRBORNE WARNING AND CONTROL SYSTEM [AWACS]	120,664	130,664	+10,00
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	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	14,88
214	SEEK EAGLE	24,699	24.699	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	USAF MODELING AND SIMULATION	17,078	17.078	
215	WARGAMING AND SIMULATION CENTERS	6,141	6,141	
216	DISTRIBUTED TRAINING AND EXERCISES	4,225	4,225	
218		63,653	63.653	
219	MISSION PLANNING SYSTEMS	6,949	6,949	
220	TACTICAL DECEPTION			
221	AF OFFENSIVE CYBERSPACE OPERATIONS	40,526	40,526	
222	AF DEFENSIVE CYBERSPACE OPERATIONS	24,166	39,166	+ 15,00
223	JOINT CYBER COMMAND AND CONTROL (JCC2)	13,000	13,000	
224	UNIFIED PLATFORM (UP)	28,759	21,559	
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	C C72	6,633	
	BATTLESPACE AWARENESS	6,633		
238	E-4B NATIONAL AIRBORNE OPERATIONS CENTER [NAOC]	57,758	57,758	
240	MINIMUM ESSENTIAL EMERGENCY COMMUNICATIONS NETWORK	99,088	67,088	
241	HIGH FREQUENCY RADIO SYSTEMS	51,612	51,612	
242	INFORMATION SYSTEMS SECURITY PROGRAM	34,612	34,612	
244	GLOBAL FORCE MANAGEMENT—DATA INITIATIVE	2,170	2,170	
246	AIRBORNE SIGINT ENTERPRISE	106,873	109,873	+ 3,0
247	COMMERCIAL ECONOMIC ANALYSIS	3,472	3,472	
250	C2 AIR OPERATIONS SUITE—C2 INFO SERVICES	8,608	8,608	
	CCMD INTELLIGENCE INFORMATION TECHNOLOGY	1,586	1,586	
251		4,492	4,492	
252	GLUBAL AIR TRAFFIC IMANAGENIEMI (GATM)	26,942		
254	WEATHER SERVICE	6,271	11,271	1
255	AIR TRAFFIC CONTROL, APPROACH, & LANDING SYSTEM (ATC)			
256	AERIAL TARGETS	8,383	8,383	
259	SECURITY AND INVESTIGATIVE ACTIVITIES	418		
261	DEFENSE JOINT COUNTERINTELLIGENCE ACTIVITIES	3,845	3,845	
268	DRAGON U-2	48,518	58,518	
269	ENDURANCE UNMANNED AERIAL VEHICLES		15,000	
270		175,334		
271	MANNED RECONNAISSANCE SYSTEMS	14,223		
272	THE PARTY OF	24,554		l
273		221,690		
		14,288		
274				

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[In thousands of dollars]

Line	ltem	2019 budget estimate	Committee recommendation	Change from budget estimate
276	SUPPORT TO DCGS ENTERPRISE	26,579	26,579	
278	INTERNATIONAL INTELLIGENCE TECHNOLOGY AND ARCHITEC-	20,070	20,575	
	TURES	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	11
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			
298	DEPOT MAINTENANCE (NON-IF)	2,541	2,541	
299	MAINTENANCE, REPAIR & OVERHAUL SYSTEM	1,897	1,897	
300		50,933	50,933	***************************************
301	LOGISTICS INFORMATION TECHNOLOGY [LOGIT]	13,787	13,787	
	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 DE-			
	VELOPMENT	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	
327	GLOBAL POSITIONING SYSTEM HI—OPERATIONAL CONTROL SEG-	,	-5,5.2	
	MENT	513,235	513,235	
	TOTAL, OPERATIONAL SYSTEMS DEVELOPMENT	6,357,616	6,186,376	- 171,240
999	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:

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ne	ltem	2019 budget estimate	Committee recommendation	Change from budget estimat
1	Defense Research Sciences	348,322	448,322	100,00 + 100,00
2	Basic research program increase	154,991	179,991	25.00
2	University Research Initiatives	134,331	175,531	+ 25,00
4	Basic research program increase	125,373	161,373	36,00
4	Program increase: Certification of advanced com-	120,010	101,070	00,0
	posites			+15,00
- 11	Program increase: Coating technologies			+10,0
	Program increase: High performance materials			+ 8,0
- 1	Program increase: Turbine airfoil demonstration			+3,0
5	Aerospace Vehicle Technologies	130.547	147,047	16,5
١,	Program increase: Human-machine teaming			+4,0
	Program increase: Hypersonic wind tunnels			+5,0
	Program increase: Hypersonic vehicle structures			+7,5
6	Human Effectiveness Applied Research	112,518	114,018	1,5
- 1	Program increase: Warfighter physiology program			+1,5
7	Aerospace Propulsion	190,919	230,419	39,5
	Program increase: Thermal management tech-			
	nologies			+ 6,0
	Program increase: Centers of excellence			+ 5,0
	Program increase: Next generation hall thrusters			+10,0
	Program increase: Next generation heat exchangers			+ 6,5
	Program Increase: MADDIE—modular arrays for en-			
	ergy			+ 12,0
8	Aerospace Sensors	166,534	171,534	5,0
	Program increase: Air Force Minority Leaders Pro-			
	gram			+ 5,0
13	Dominant Information Sciences and Methods	162,420	175,420	13,0
	Program increase: Cyber testbed for unidentified c-			
	UAS			+ 5,5
	Program increase: Quantum computing CoE		45.050	+7,5
14	High Energy Laser Research	43,359	45,859	2,5
	Program increase: Directed energy research	117.046	101 CAE	+ 2,5
15	Space Technology	117,645	121,645	4,0
	Program increase: Advanced materials and process			+ 4,0
10	for magnetic graphene memory systems	34,426	42,926	8,5
16	Advanced Materials for Weapon Systems		42,320	+8,5
18	Program increase: Metals affordability research	39,968	44.968	5,0
10	Advanced Aerospace SensorsProgram increase: Sensor integration	33,300		+ 5,0
19	Aerospace Technology Dev/Demo	121,002	126,002	5,0
13	Program increase: Aircraft winglets and drag re-	121,002	120,002	,,,
	duction devices	,	***************************************	+ 5,0
20	Aerospace Propulsion and Power Technology	115,462	141,462	26,0
-0	Program increase: Chemical apogee engines			+ 2,!
	Program increase: Upper stage engine maturation			+ 8,
	Program increase: Silicon carbide research			+ 15,0
22	Advanced Spacecraft Technology	54,895	70,895	16,0
	Program increase: Radiation hardened microelec-			
	tronic processors			+ 6,0
	Program increase: Space laser communications sys-			
	tems			+ 10,0
25	Conventional Weapons Technology	194,981	204,981	10,0
	Program increase: Rotary launcher development			+ 10,
26	Advanced Weapons Technology	43,368	53,368	10,
	Program increase: Demonstrator laser weapon sys-			
	tem			+ 10,
27	Manufacturing Technology Program	42,025	65,825	23,
	Program increase: F-35 battery technology			+ 9,
	Program increase: Materials development research			+ 10,
	Program increase: Modeling technology for small			
	turbine engines			+4,
36	Pollution Prevention—Dem/Val		200	

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	[In thousands of c	dollars]		
Line	!tem	2019 budget estimate	Committee recommendation	Change from budget estimate
3	7 Long Range Strike—Bomber	2,314,196	2,276,496	- 37,700 - 37,700
31	Integrated Avionics Planning and Development Transfer: Air Force requested from RDTE lines 42, 86, and 202	14,894	81,271	66,377
4(	O National Airborne Ops Center [NAOC] Recap	9,740	7,440	+ 66,377 - 2,300
4]	Program increase: Technology partnerships	12,960	16,960	-2,300 4,000 +4,000
42	Program	71,501	32,501	- 39,000
	Transfer: Air Force requested to RDTE line 38  Restoring acquisition accountability: Advanced 5,000 pound penetrator test and evaluation funding early to need			-33,000
48	Tech Transition Program	1,186,075	195,462	- 6,000 - 990,613 - 1,048,413
	Program increase: Alternative energy research Program increase: Rapid sustainment initiative			+ 5,000 + 42,800
48a	Program increase: Technology transition initiatives Advanced Engine Development Transfer from line 48		651,355	+ 10,000 + 651,355
	Maintain program affordability: Unjustified growth in Adaptive Engine Transition Program			+ 790,355 - 139,000
48b	Hypersonics Prototyping		558,058	558,058 + 258,058
	Program increase: Air-launched rapid response weapon Program increase: Hypersonic conventional strike			+ 79,700
48c	weapon		150,000	+ 220,300 + 150,000
50	Program increase: Directed energy prototyping  Next Generation Air Dominance		392,997	+ 150,000 - 111,000
51	Classified adjustment	40,326	25,426	- 111,000 - 14,900
60	excess to need			- 14,900
	(SPACE)	286,629	256,629	- 30,000 - 30,000
63	Space Situation Awareness Systems Contradiction in justification books/briefs	39,338	29,338	- 10,000 - 10,000
65	Space Control Technology Improving funds management: Space defense force packaging funded in Public Law 115–141	91,018	76,018	-15,000
67	Protected Tactical Enterprise Service (PTES)	51,419	46,419	15,000 5,000 5,000
70	Operationally Responsive Space	366,050	371,050	5,000
75	Program increase: Blackjack Tactical Data Networks Enterprise Program increase: Accelerate 21st Century battle		257,746	- 105,000 + 110,000 50,000
77	banagement command and control	73,158	78,158	+ 50,000 5,000
85	Program increase: Precise navigation	20,028	23,528	+ 5,000 3,500
86	Joint Direct Attack Munition	15,787		+ 3,500 - 15,787
88	Combat Training Ranges	35,895	43,895	15,787 8,000

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[In thousands of dollars]

.ine	ltem	2019 budget estimate	Committee recommendation	Change from budget estimate
	Program increase: F-35 advanced threat simulator			+8,00
91	Long Range Standoff Weapon	614,920	624,920	10,00
31				+10,00
97	KC-46	88.170	80,170	-8,00
31	Improving funds management: Forward financed			-8,00
99	Combat Rescue Helicopter	457,652	384,652	-73,00
33	Maintain program affordability: Development fund-	107,502	20.,000	,
	ing excess to need			-73.00
107	Nuclear Weapons Modernization	91,907	84.907	- 7,00
107		01,507	01,007	.,
	Maintain program affordability: Test support excess		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-7.00
100	to need	43,175	14.975	- 28,20
109	Stand In Attack Weapon	45,175	14,010	20,20
	Restoring acquisition accountability: Unclear acqui-		.,,	-28,20
	sition strategy		30,000	30.00
115	JSTARS Recap		30,000	30,00
	Program increase: Continue JSTARS recap GMTI			+30,00
	radar development		C1C 272	
117	Presidential Aircraft Recapitalization (PAR)	673,032	616,372	- 56,66
	Restoring acquisition accountability: EMD Hot Start			E 1/
	unjustified			-5,10
	Maintain program affordability: EMD funding un-			
	justified			- 51,56
120	GPS IIIC	451,889	401,889	-50,00
	Restoring acquisition accountability: Acquisition			
	strategy undefined			- 50,00
127	Wideband Global SATCOM (SPACE)	3,970	53,470	49,50
	Transfer: Pathfinder #5 from SPAF Line 5			+ 49,50
129	Next-Generation OPIR	643,126	743,126	100,0
	Program increase: Accelerate sensor development		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	+100,0
130	Evolved Expendable Launch Vehicle Program (SPACE)—			
100	EMD	245,447	445,447	200,0
	Program increase			+ 200,0
132	Major T&E Investment	91,844	266.844	175,0
132	Program increase			+ 150,0
	Program increase: Eastern Gulf test and training			
	range			+10,0
	Program increase: Instrumentation technology			+ 10,0
				. 10,1
	Program increase: UAV electronic warfare capabili-			+ 5,0
	ties	692,784	697,784	5,0
136	Test and Evaluation Support			+ 5.0
	Program increase: Avionics cyber range	233,924	226,075	- 7.8
137	Acq Workforce- Global Power			- 7,8 - 7,8
	Maintain program affordability: Unjustified growth	002.400	243,853	- 19,6
138	Acq Workforce- Global Vig & Combat Sys	263,488		- 19,6 - 19.6
	Maintain program affordability: Unjustified growth	150 501	145 220	
139	Acq Workforce- Global Reach	153,591	145,230	-8,3
	Maintain program affordability: Unjustified growth			-8,3
140	Acq Workforce- Cyber, Network, & Bus Sys	232,315	217,900	-14,4
	Maintain program affordability: Unjustified growth			-14,4
141	Acq Workforce- Global Battle Mgmt	169,868	157,472	- 12,3
	Maintain program affordability: Unjustified growth			- 12,3
142	Acq Workforce- Capability Integration	226,219	221,126	- 5,0
	Maintain program affordability: Unjustified growth			- 5,0
143		38,400	32,796	- 5,6
	Maintain program affordability: Unjustified growth			_ 5,€
144	1	125,761	123,175	-2,5
	Maintain program affordability: Unjustified growth			-2,5
147	Management HQ—R&D	10,642	9,815	-1
AT/	Maintain program affordability: Unjustified growth			
148				
140	uation Support	162,216	262,216	100,0
	Program increase	102,210		+ 100,0
150		35,285	48,285	13,0
	L DEBUGERIERIA BURINAS AND WATURATUR	1 00,200	70,200	+ 8,0

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	[In thousands of do	marsj		
Line	ltem	2019 budget estimate	Committee recommendation	Change from budget estimate
	Program increase: Nuclear deterrence research	***************************************		+ 5,000
16	AF Integrated Personnel and Pay System (AF-IPPS)  Maintain program affordability: Management serv-	47,287	41,102	-6,185
17	ices excess to need			-6,185
17.	Maintain program affordability: Unjustified growth	26,112	19,312	- 6,800
172	in direct mission support	99,100	75,950	6,800 23,150
173	B-52 Squadrons	000 414		- 23,150
210	Transfer crypto modernization: Air Force—requested	280,414	329,173	48,759
	Program increase: B-52 infrared threat defense		••••••	+ 14,759
				+ 24,000
175	B–1B Squadrons	76,030	62 220	+ 10,000
	Maintain program affordability: Fully integrated tar-	70,030	63,230	- 12,800
179	Worldwide Joint Strategic Communications	10,442	18,442	- 12,800
		10,442	10,442	8,000 + 8,000
189	F-16 Squadrons	191,564	185,864	- 5,700 - 5,700
	tions suite upgrade early to need			- 5.700
190	F-15E Squadrons	192,883	176,483	-16,400
	Program increase: Electronic warfare receiver up-			-41,400
	grades			+25,000
192	F-22A Squadrons	603,553	588,453	- 15,100
100	tems program delay			-15,100
193	F-35 Squadrons	549,501	428,315	-121,186
	Restoring acquisition accountability: C2D2 flight			- 33,492
	Improving funds management: ECASE excess			<b>- 9,719</b>
	Improving funds management: Developmental			—14,399.
	Improving funds management: Fixed JPO costs ex-	1		- 44,733
		The second secon		-6,168
195	Advanced Medium Range Air—to—Air Missile (AMRAAM) Restoring acquisition accountability: SIP 4 early to	61,393	51,293	12,675 10,100
	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
005	tion			+4,000
205	Program increase: Accelerate 21st Century battle	120,664	130,664	10,000
	management command and control			+10,000
213	Joint Surveillance/Target Attack Radar System [JSTARS] Transfer common data link program: Air Force-re-	14,888		- 14,888
222	quested to APAF line 59			14,888
222	AF Defensive Cyberspace Operations	24,166	39,166	15,000
24	Program increase:: Transportation cyber research			+ 7,500 + 7,500
224   n.)	Unified Platform (UP)	28,759	21,559	-7,200

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[In thousands of dollars]

Line	ltem	2019 budget estimate	Committee recommendation	Change from budget estimate
240	Restoring acquisition accountability: Lack of jus- tification on foundational efforts Minimum Essential Emergency Communications Network			- 7,200
240	(MEECN)  Maintain program affordability: Unjustified growth in Global Aircrew Strategic Network Terminal Inc	99,088	67,088	- 32,00
	2			-32,00
246	Airborne SIGINT Enterprise	106,873	109,873	3,00
_,,	Program increase: SIGINT sensor development			+3,00
254	Weather Service	26,942	31,942	5,00
	Program increase: Commercial weather system follow-on			+ 5,00
255	Air Traffic Control, Approach, and Landing System			
	(ATCALS)	6,271	11,271	5,00
	Program increase: Air traffic management of UAS			- 0.
	operations			+ 5,00
268	Dragon U-2	48,518	58,518	10,00
	Program increase: Sensor development			+ 10,0
269	Endurance Unmanned Aerial Vehicles		15,000	15,0
	Program increase: Ultra-long endurance aircraft			+ 15,0
308	Financial Management Information Systems Development Maintain program affordability: Increment 2 excess	99,734	93,834	- 5,9 - 5.9
	to need			- 5,9 - 20,0
311	Family of Advanced BLoS Terminals (FAB—T)	80,168	60,168	
	early to need			-20,0
312	Satellite Control Network (SPACE)	17,808	27,808	10,0
	Program increase: Commercial augmentation serv-			+ 10.0
	ice		20.041	10,0
318	Spacelift Range System (SPACE)	10,641	20,641	10,0
	Program increase: Space launch range services and			+ 10.0
	capability			- 70,8
999	Classified Programs			- 70,8 - 70.8
	Classified adjustment			70,0

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 certification 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

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.

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 defendable 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 recommends 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.

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# RESEARCH, DEVELOPMENT, TEST AND EVALUATION, DEFENSE-WIDE

Appropriations, 2018	\$22 010 075 000
budget estimate, 2019	99 016 559 000
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	07.000		
2	DEFENSE RESEARCH SCIENCES	37,023	37,023	
3	BASIC RESEARCH INITIATIVES	422,130	422,680	+ 55
4	BASIC OPERATIONAL MEDICAL RESEARCH SCIENCE	42,702	54,702	+ 12,00
5	NATIONAL DEFENSE EDUCATION PROGRAM	47,825	45,275	− 2,55
6	HISTORICALLY BLACK COLLEGES & UNIV (HBCU)	85,919	200,919	+ 115,00
7	CHEMICAL AND BIOLOGICAL DESCRIPTION (HBCD)	30,412	32,412	+ 2,00
′	CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM	42,103	42,103	
	TOTAL, BASIC RESEARCH	708,114	835,114	+ 127,00
	APPLIED RESEARCH			,
8	JOINT MUNITIONS TECHNOLOGY	19.170	21.670	+ 2,50
9	BIOMEDICAL TECHNOLOGY	101,300	86.700	- 14,60
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	- 13,300
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	12 500
18	MATERIALS AND BIOLOGICAL TECHNOLOGY	226,898	218,898	- 13,500
19	ELECTRONICS TECHNOLOGY	333,847	363,847	- 8,000
20	WEAPONS OF MASS DESTRUCTION DEFEAT TECHNOLOGIES	161.151	157,151	+ 30,000
21	SOFTWARE ENGINEERING INSTITUTE	9.300	9,300	4,000
22	SPECIAL OPERATIONS TECHNOLOGY DEVELOPMENT	35,921	35,921	
			00,021	
-	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
7	COUNTERPROLIFERATION INITIATIVES—PROLIF PREV & DEFEAT	299,858	270,858	- 29,000
8	ADVANCED CONCEPTS AND PERFORMANCE ASSESSMENT	13,017	الشنواء ا	,
9	WEAPONS TECHNOLOGY	,	13,400	+ 13,400
1	ADVANCED RESEARCH	20,365	42,565	+ 22,200
2	JOINT DOD-DOE MUNITIONS TECHNOLOGY DEVELOPMENT	18,644	40.00	
4	ADVANCED AEROSPACE SYSTEMS	277,603	327,603	+ 50.000
5	SPACE PROGRAMS AND TECHNOLOGY	254.671	249.671	-5,000
6	ANALYTIC ASSESSMENTS	19,472	18.472	-1,000
7   .	ADVANCED INNOVATIVE ANALYSIS AND CONCEPTS	37,263		1,000
8	ADVANCED INNOVATIVE ANALYSIS AND CONCEPTS—MHA	13,621		
9   1	COMMON KILL VEHICLE TECHNOLOGY	189,753	56,753	- 133,000
0   1	DEFENSE INNOVATION UNIT EXPERIMENTAL (DILIX)	29,364		133,000
1   '	TECHNOLOGY INNOVATION	83,143	00.440	
2   1	CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM—ADVANCED	,		***************************************
1	DEV	142,826	142,826	

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Line	ltem	2019 budget estimate	Committee recommendation	Change from budget estimate
40	RETRACT LARCH	161,128	161,128	
43	JOINT ELECTRONIC ADVANCED TECHNOLOGY	12,918	12,918	
44	JOINI ELECTRONIC ADVANCED TECHNOLOGY	106,049	93.049	-13,000
45	JOINT CAPABILITY TECHNOLOGY DEMONSTRATIONS		12,696	
46	NETWORKED COMMUNICATIONS CAPABILITIES	12,696	12,030	
47	DEFENSE-WIDE MANUFACTURING SCIENCE AND TECHNOLOGY	114,637	159,887	+ 45,250
	PROG	49,667	67,167	+ 17,500
48	MANUFACTURING TECHNOLOGY PROGRAM		60,838	+ 12,500
49	EMERGING CAPABILITIES TECHNOLOGY DEVELOPMENT	48,338		+ 8,000
50	GENERIC LOGISTICS R&D TECHNOLOGY DEMONSTRATIONS	11,778	19,778	
52	STRATEGIC ENVIRONMENTAL RESEARCH PROGRAM	76,514	86,514	+ 10,000
53	MICROELECTRONIC TECHNOLOGY DEVELOPMENT AND SUPPORT	168,931	203,931	+ 35,000
54	IOINT 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
	SOFTWARE ENGINEERING INSTITUTE	15,050	15,050	
60	OHICK DEACTION CDECIAL DROIFCTC	69,626	59,626	- 10,000
61	QUICK REACTION SPECIAL PROJECTS	19,415	19,415	
62	ENGINEERING SCIENCE AND TECHNOLOGY	69,533	69,533	
63	HIGH ENERGY LASER ADVANCED TECHNOLOGY PROGRAM		132,389	+ 36,000
64	TEST & EVALUATION SCIENCE & TECHNOLOGY	96,389	40,582	T 30,000
65	OPERATIONAL ENERGY CAPABILITY IMPROVEMENT	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 NUCLEAR AND CONVENTIONAL PHYSICAL SECURITY EQUIPMENT	28.140	28,140	
68	NUCLEAR AND CONVENTIONAL PHYSICAL SECURITY EQUILIBRIES	92,222	92,222	
69	WALKOFF	2,506	2,506	
70 71	ACQUISITION ENTERPRISE DATA AND INFORMATION SERVICES ENVIRONMENTAL SECURITY TECHNICAL CERTIFICATION PRO-	2,300		
	GRAM	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	− 16,39
	BALLISTIC MISSILE DEFENSE SENSORS	220,876	359,176	+ 138,300
75		540,926	638,426	+ 97,50
76	BALLISHE MISSIFE DELEMSE EMADEING I MOGNAMO	422,348	422,348	
77	SPECIAL PROGRAMS—MDA	767,539	773,520	+ 5,98
78	AEGIS BMD BALLISTIC MISSILE DEFENSE COMMAND AND CONTROL, BATTLE	101,333	170,020	, 5,30.
81	MANAGEMENT	475,168		+ 90,20
82		48,767	48,767	
83				
83		54,925	54,925	
		16,916		
84		149,715		- 13,00
85	JEW DWOEN WOODEDATINE BOOGDAMS	300,000		
86	THE PARTY OF THE P	365,681		+ 153,16
87	BALLISTIC MISSILE DEFENSE TEST			
88	BALLISTIC MISSILE DEFENSE TARGETS	517,852		T 43,30
89		11,347		
90	COALITION WARFARE	8,528		
91	DEPARTMENT OF DEFENSE CORROSION PROGRAM	3,477		+5,00
92		148,822		+ 168,00
93	MISSILE DEFEAT PROJECT	58,607	43,607	-15,00
	COUNTER IMPROVISED-THREAT DEMONSTRATION, PROTOTYPE	12 002	,	- 12,99
94	DEVELOPMENT, AND TESTING	12,993		
9	HYPERSONIC DEFENSE	120,444		
9	ADVANCED INNOVATIVE TECHNOLOGIES	1,431,702	00.000	
96	A LOINT ARTIFICIAL INTELLIGENCE CENTER			
9	7 TRUSTED AND ASSURED MICROELECTRONICS	233,142		
	RAPID PROTOTYPING PROGRAM	99,333	99,333	

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[In thousands of dollars]

Line	ltem	2019 budget estimate	Committee recommendation	Change from budget estimate
99	DOD UNMANNED AIRCRAFT SYSTEM (UAS) COMMON DEVELOP-			
	MENT	3,781	7,781	+4,00
100	PACIFIC DISCRIMINATING RADAR	95,765	73,147	-22,61
101	WARGAMING AND SUPPORT FOR STRATEGIC ANALYSIS (SSA)	3,768	3,768	
103	JOINT C5 CAPABILITY DEVELOPMENT, INTEGRATION AND INTER-	0,,00	0,1 00	
	OPERABILITY	22,435	22,435	
04	LONG RANGE DISCRIMINATION RADAR	164,562	164,562	1
105	IMPROVED HOMELAND DEFENSE INTERCEPTORS	561,220	421,820	- 139,40
106	BMD TERMINAL DEFENSE SEGMENT TEST	61,017	61.017	,
107	AEGIS BMD TEST	95,756	95.756	
108	BALLISTIC MISSILE DEFENSE SENSOR TEST	81,001	81,001	
109	LAND-BASED SM-3 [LBSM3]	27,692	27,692	
111	BALLISTIC MISSILE DEFENSE MIDCOURSE DEFENSE SEGMENT	21,032	27,032	
• • • •	TEST	81,934	72.624	0.20
112	MULTI-OBJECT KILL VEHICLE		72,634	- 9,300
113	ENTERPRISE INFORMATION TECHNOLOGY SYSTEMS	8,256	3,256	- 5,00
114	JOINT ELECTROMAGNETIC TECHNOLOGY [JET] PROGRAM	2,600	2,600	
115	CYBER SECURITY INITIATIVE	3,104	3,104	***************************************
116	SPACE TRACKING AND SURVEILLANCE SYSTEM	985	985	***************************************
117		36,955	36,955	
.17	BALLISTIC MISSILE DEFENSE SYSEM SPACE PROGRAMS	16,484	121,984	+ 105,500
- 1	TOTAL, DEMONSTRATION & VALIDATION	8,709,725	9,870,906	+1,161,181
	ENGINEERING & MANUFACTURING DEVELOPMENT			
118	NUCLEAR AND CONVENTIONAL PHYSICAL SECURITY EQUIPMENT	8,333	8,333	
19	PROMPT GLOBAL STRIKE CAPABILITY DEVELOPMENT	263,414	615,914	+ 352,500
20	CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM	388,701	329,909	- 58,792
21	JOINT TACTICAL INFORMATION DISTRIBUTION SYSTEM (JTIDS)	19,503	29,503	+ 10,000
22	WEAPONS OF MASS DESTRUCTION DEFEAT CAPABILITIES	6,163	6,163	110,000
23	INFORMATION TECHNOLOGY DEVELOPMENT	11.988	11,988	***************************************
24	HOMELAND PERSONNEL SECURITY INITIATIVE	296	296	***************************************
125	DEFENSE EXPORTABILITY PROGRAM	1,489	1,489	
26	OUSD(C) IT DEVELOPMENT INITIATIVES	9,590	9,590	
27	DOD ENTERPRISE SYSTEMS DEVELOPMENT AND DEMONSTRA-	5,550	3,330	
- 1	TION	3,173	3,173	
28	DCMO POLICY AND INTEGRATION	2,105	2,105	
29	DEFENSE AGENCY INITIATIVES FINANCIAL SYSTEM	21,156	21,156	
30	DEFENSE RETIRED AND ANNUITANT PAY SYSTEM (DRAS)	10,731	10,731	
32	DEFENSE-WIDE ELECTRONIC PROCUREMENT CAPABILITIES	6,374	6,374	
33	TRUSTED & ASSURED MICROELECTRONICS	56,178	98,678	+ 42,500
	GLOBAL COMBAT SUPPORT SYSTEM	2,512	2,512	T 42,300
	DOD ENTERPRISE ENERGY INFORMATION MANAGEMENT (EEIM)	2,435	2,435	
36	CWMD SYSTEMS: SYSTEM DEVELOPMENT AND DEMONSTRATION	17,048	17,048	
		17,040	17,040	
	TOTAL, ENGINEERING & MANUFACTURING DEVELOP-	831,189	1 177 207	1 345 300
	1	031,103	1,177,397	+ 346,208
	RDT&E MANAGEMENT SUPPORT		1	
	DEFENSE READINESS REPORTING SYSTEM [DRRS]	6,661	6,661	
	JOINT SYSTEMS ARCHITECTURE DEVELOPMENT	4,088	4,088	
	CENTRAL TEST AND EVALUATION INVESTMENT DEVELOPMENT	258,796	278,096	+19.300
10	ASSESSMENTS AND EVALUATIONS	31,356	31,356	
	MISSION SUPPORT	65,646		
42 .	JOINT MISSION ENVIRONMENT TEST CAPABILITY [JMETC]	84,184	89,184	+5,000
43	TECHNICAL STUDIES, SUPPORT AND ANALYSIS	22,576	22,576	
14 .	JOINT INTEGRATED AIR AND MISSILE DEFENSE ORGANIZATION	52,565	E0 E0E	
	OLACOIFIED DECODAR HODED		100,000	+100,000
	SYSTEMS ENGINEERING	38,872		
	Studies and analysis support	3,534		
	NUCLEAR MATTERS—PHYSICAL SECURITY	5,050		
	SUPPORT TO NETWORKS AND INFORMATION INTEGRATION	11,450	11 150	
	GENERAL SUPPORT TO USD (INTELLIGENCE)	1,693	5,693	+4,000
	CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM	102,883		T 4,000
	SMALL BUSINESS INNOVATION RESEARCH/TECHNOLOGY TRANS-	102,000	102,000	
- 11	FER	2,545	2,545	·····

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[In thousands of dollars]

Line	Item	2019 budget estimate	Committee recommendation	Change from budget estimate
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	***************************************
	MANAGEMENT HEADQUARTERS DEFENSE TECHNICAL INFORMA-	10,040	10,010	***************************************
165		4,124	4,124	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	TION CENTER [DTIC]			
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	
		652	652	
175	SUPPORT TO INFORMATION OPERATIONS [10] CAPABILITIES			
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-			
201	FORMATION	42,940	42,940	
105	MANAGEMENT HEADQUARTERS—MDA	28,626	28,626	
185				
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
100	OPERATIONAL SYSTEMS DEVELOPMENT	9,750	9,750	
189 190	ENTERPRISE SECURITY SYSTEM (ESS)	3,730	3,730	
191	PEAC	1,855	1,855	
131		304	304	**,,
	SY			+ 53,500
192	INDUSTRIAL BASE ANALYSIS AND SUSTAINMENT SUPPORT	10,376	63,876	
193	OPERATIONAL SYSTEMS DEVELOPMENT	5,915	5,915	
194 195	GLOBAL THEATER SECURITY COOPERATION MANAGEMENT	5,869	5,869	***************************************
	D	48,741	42,385	- 6,356
196	PLANNING AND DECISION AID SYSTEM	3,037	3,037	
197	C4I INTEROPERABILITY	62,814	62,814	
	DEFENSE INFO INFRASTRUCTURE ENGINEERING & INTEGRATION	16,561	16,561	
203				
204	LONG HAUL COMMUNICATIONS [DCS]	14,769	14,769	1
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	
			7,570	
212	JOINT SPECTRUM CENTER (DEFENSE SPECTRUM ORGANIZATION)	7,570		1
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	
	DISTRIBUTED COMMON GROUND/SURFACE SYSTEMS	2,970	2,970	
230		5,954	5,954	
233	INSIDER THREAT			
234	HOMELAND DEFENSE TECHNOLOGY TRANSFER PROGRAM	2,198	1,198	-1,00
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	
	AVIATION SYSTEMS	184,993	182,862	-2,13
248				

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#### [in thousands of dollars]

Line	ltem	2019 budget estimate	Committee recommendation	Change from budget estimate
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

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COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

пе	łtem	2019 budget estimate	Committee recommendation	Change from budget estimat
2	Defense Research Sciences	422,130	422,680	+ 55
	cial intelligence			+ 15.00
	Improving Funds Management: Program delays	***************************************		-14.45
3	Basic Research Initiatives	42,702	54,702	+ 12,00
١	Program increase: DEPSCOR		0 1,7 02	+ 12.00
4	Basic Operational Medical Research Science	47.825	45,275	2.55
.	Improving Funds Management: Program delays			-12.5
	Program increase: TBI Treatment for blast injuries			+10.00
5	National Defense Education Program	85,919	200,919	+115,00
	Basic research program increase			+ 100,00
	Program increase: Manufacturing engineering education			
	program			+ 15,00
6	Historically Black Colleges and Universities/Minority Institutions	30,412	32,412	+2,00
	Program increase	***************************************		+ 2,00
8	Joint Munitions Technology	19,170	21,670	+ 2,50
	Program increase: Insensitive munitions			+ 2,5
9	Biomedical Technology	101,300	86,700	-14,6
	Improving Funds Management: Program delays			-14,6
13	Information & Communications Technology	395,317	379,817	15,5
	Program increase: DARPA foundational and applied artifi-	7.0		
	cial intelligence			+ 35,0
	Improving Funds Management: Program delays			−50,5
17	Tactical Technology	335,466	321,966	− 13,5
	Improving Funds Management: Program delays			−16 <b>,</b> 0
	Program increase			+ 2,5
18	Materials and Biological Technology	226,898	218,898	<b>−8,0</b>
	Improving Funds Management: Program delays		***************************************	- 8,0
19	Electronics Technology	333,847	363,847	+ 30,0
	Program increase: DARPA electronics resurgence initiative			+ 30,0
20	Counter Weapons of Mass Destruction Applied Research	161,151	157,151	- 4,0
	JIDO unjustified base budget request			- 4,0
24	Combating Terrorism Technology Support	125,271	120,271	- 5,0
	Improving funds management: Unjustified growth			- 30,0
	Transfer funding from RDDW OCO Line 24: Anti-Tunneling	***************************************		+ 25,0
25	Foreign Comparative Testing	24,532	22,332	_ 2,2
	Improving funds management: Prior year carryover			- 2,2
27	Counter Weapons of Mass Destruction Advanced Technology			
	Development	299,858	270,858	— 29,0
	JIDO unjustified base budget request		***************************************	— 29 <b>,</b> 0
29	Weapons Technology		13,400	+ 13,4
	Program increase: Hypersonic Defense			+ 13,4
31	Advanced Research	20,365	42,565	+ 22,2
	Program increase: Hypersonic Defense			+ 22,2
34	Advanced Aerospace Systems	277,603	327,603	+ 50,0
	Program increase: Hypersonics weapons programs devel-		1	
	opment and transition			+ 50,0
35	Space Programs and Technology	254,671	249,671	- 5,0
	Insufficient budget justification: RASR			- 5,0
36	Analytic Assessments	19,472	18,472	-1,0
	Improving funds management: Prior year carryover			-1,0
39	Common Kill Vehicle Technology	189,753	56,753	— 13 <b>3,</b> 0
	Transfer to line 92 for low power laser demonstrator pro-			
	totypes post-PDR risk reduction through CDR only	***************************************		- 78,0
	Restoring acquisition accountability: program adjustment			- 55,0
45	Joint Capability Technology Demonstrations	106,049	93,049	-13,0
	Improving funds management: Prior year carryover			- 13,0
47	Defense-Wide Manufacturing Science and Technology Program	114.637	159.887	+ 45.2

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[In thousands of dollars]

Line	Item	2019 budget estimate	Committee recommendation	Change from budget estimate
	Program increase: Manufacturing innovation institutes			+10,25
	Program increase: Advanced manufacturing			+ 30,00
48	Manufacturing Technology Program	49,667	67,167	+ 17,50
	Program increase			+2,50
	Program increase: All solid-state battery development			+10,00
	Program increase: Digital innovative design for reliable			
	casting performance			+5,00
49	Emerging Capabilities Technology Development	48,338	60,838	+ 12,50
	Improving funds management: Prior year carryover			-5,00
	Program increase: Disruptive technology and operational			
	concept for air and missile defense			+7,50
	Program increase: High-altitude optical reconnaissance			
	unit and sensors			+ 10,00
50	Generic Logistics R&D Technology Demonstrations	11,778	19,778	+8,00
	Program increase: Liquid hydrocarbon fuels			+7,00
	Program increase			+1,00
52	Strategic Environmental Research Program	76,514	86,514	+10,00
	Readiness Increase	100.001		+10,00
53	Microelectronics Technology Development and Support	168,931	203,931	+ 35,00
	Program increase: Trusted foundry			+ 30,00
	Program increase: Tunable filter, support for microelec-			
	tronics development			+ 5,00
55	Advanced Electronics Technologies	111,099	118,599	+7,50
	Program increase: Support for the electronics resurgence			7.50
	rnitiative	400 500		+7,50
57	Network-Centric Warfare Technology	438,569	434,069	- 4,50
	Improving Funds Management: Program delays	100 100	170.001	-4,50
58	Sensor Technology	190,128	173,601	-16,52
	Improving Funds Management: Program delays			- 18,02
- 1	Program increase: Sensors and processing systems tech-	1		
	nology			+ 1,50
59	Distributed Learning Advanced Technology Development	13,564	11,564	-2,00
61	Improving funds management: Prior year carryover		50.000	-2,00
61	Quick Reaction Special Projects	69,626	59,626	- 10,000
64	Improving funds management: Prior year carryover	00.000	122.200	- 10,000
04	Test & Evaluation Science & Technology	96,389	132,389	+ 36,000
	Program Increase: Additive manufacturing for hypersonic			. = 000
- 0	affordability			+5,000
- 1	Program Increase: Advanced technology development			+ 16,000
	Program increase: Hypersonics and directed energy test			+ 10,000
65	Program increase: Workforce development	40.500	40 502	+ 5,000
00	Operational Energy Capability Improvement	40,582	40,582	E 00/
- 1	Improving funds management: Prior year carryover			- 5,000
71	Program increase	40.016	42.016	+ 5,000
′1	Environmental Security Technical Certification Program	40,016	42,016	+ 2,000
72	Program increase: Technology demonstration program	014 179	200 272	+ 2,000
12	Ballistic Missile Defense Terminal Defense Segment	214,173	398,273	+ 184,100
73	Program increase: USFK JEON	020 250	803.359	+ 184,100
/3	Ballistic Missile Defense Midcourse Defense Segment	926,359	803,359	-123,000
	Improving funds management: Boosters with RKVs funded			52.000
	in Public Law 115–141			- 52,000
	Improving funds management: NRE funded in Public Law			CF 000
	115–141			<b>– 65,000</b>
- 1	Transfer funding for missile field components to Procure-			
	ment, Defense-wide, line 27 for proper execution:			41.00
	Transfer requested by Missile Defense Agency			- 41,000
	Program increase: Cybersecurity			+ 10,000
۱,	Program increase: Discrimination capabilities	100.000	110.400	+ 25,000
74	Chemical and Biological Defense Program—Dem/Val	129,886	113,496	16,390
	Improving Funds Management: Program delays			- 16,390
, l		יויים מכיני	359,176	+ 138,300
75	Ballistic Missile Defense Sensors	220,876		
75	Program increase: Cybersecurity			+ 5,000 + 93,000

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[In thousands of dollars]

Line	ltem	2019 budget estimate	Committee recommendation	Change from budget estimat
	Program increase: USFK JEON			+ 24,00
76	BMD Enabling Programs	540,926	638,426	+ 97,50
	Program increase: Cyber assessment			+16,20
	Program increase: Cybersecurity			+40,00
	Program increase: Discrimination capabilities			+4,00
	Program increase: Facilities, sustainment, restoration and			
	modernization			+3.20
	Program increase: Systems engineering		***************************************	+34,10
78	AEGIS BMD	767,539	773.520	+5,98
	Program increase: Discrimination capabilities			+4,00
	Program increase: Facilities, sustainment, restoration and			,
	modernization			+ 1.98
81	Ballistic Missile Defense Command and Control, Battle Man-		***************************************	1,50
01	agement and Communication	475,168	565,368	+90,20
	Restoring acquisition accountability: Spiral 8.2–3 scope	475,100	303,300	1 30,20
	adjustment			-6,20
				- 0,20
	Restoring acquisition accountability: BMDS Increment 8			7.16
	early to need			-7,10
	Program increase: Cybersecurity	***************************************	***************************************	+ 10,00
	Program increase: Mobile sensor integration			+ 93,50
85	Sea Based X-Band Radar [SBX]	149,715	136,715	-13,00
	Improving funds management: Software upgrades funded			
	in Public Law 115–141	***************************************		- 13,00
87	Ballistic Missile Defense Test	365,681	518,848	+ 153,16
	Program increase: Cybersecurity		***************************************	+ 20,00
	Program increase: Facilities, sustainment, restoration and			
	modernization			+ 29,00
	Program increase: HAŁO			+ 32.20
	Program increase: USFK JEON	***************************************		+71,90
88	Ballistic Missile Defense Targets	517.852	561,352	+ 43,50
••	Improving funds management: Boosters with RKVs funded	017,002	001,002	. 10,50
	in Public Law 115–141			- 36,00
	Program increase: Cybersecurity			+ 5,00
	Program increase: Special programs target			+70,00
0.1	Program increase: USFK JEON	0.477	0.477	+4,50
91	Department of Defense Corrosion Program	3,477	8,477	+5,00
00	Program increase	140.000		+5,00
92	Technology Maturation Initiatives	148,822	316,822	+ 168,00
	Transfer from line 39 for low power laser demonstrator			
	prototypes post–PDR risk reduction through PDR only			+ 78,00
	Program increase: Cybersecurity			+ 5,00
	Program increase: Laser scaling for boost phase intercept			+85,00
93	Missile Defeat Project	58,607	43,607	- 15,00
	Classified Adjustment			- 15,00
94	Counter Improvised—Threat Demonstration, Prototype Develop-			
	ment, and Testing	12,993		-12,99
	JIDO unjustified base budget request			- 12.99
95	Hypersonic Defense	120,444	130,944	+ 10.50
•••	Program increase: Hypersonic Defense	***************************************		+ 10.50
96	Advanced Innovative Technologies	1,431,702	1,496,336	+ 64,63
50	Classified Adjustment	1,401,702	1,430,000	- 24,36
	Program increase: Machine learning and advanced manu-	***************************************	***************************************	24,00
	I			1.25.06
	tacturing			+ 25,00
	Program increase: Rail gun with hypervelocity projectile			+ 14,00
104	Program increase: Quartermaster Pathfinder		02.000	+ 50,00
96A	Joint Artificial Intelligence Center		83,000	+83.00
	Program increase: Artificial intelligence			+ 83,00
97	Trusted & Assured Microelectronics	233,142	595,642	+ 362,50
	Program increase: Next generation microelectronics			+ 347,00
	Program increase: Joint federated assurance center			+10,00
	Program increase: New trust approach development			+ 5,50
99	Department of Defense (DoD) Unmanned System Common De-			
	velopment	3,781	7,781	+4,00
	Program increase: Unmanned traffic management			+4,00

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[In thousands of dollars]

		2010 5	0	n (
Line	Item	2019 budget estimate	Committee recommendation	Change from budget estimate
100	Pacific Discriminating Radar	95,765	73,147	- 22,618
105	Restoring acquisition accountability: MD51 early to need			- 22,618
105	Improved Homeland Defense Interceptors	561,220	421,820	- 139,400
111	in Public Law 115–141	01.074	70.024	-139,400
111	Improving funds management: Boosters with RKVs funded in Public Law 115–141	81,934	72,634	- 9,300
112	Multi-Object Kill Vehicle	8,256	3,256	- 9,300 - 5,000 - 5,000
117	Ballistic Missile Defense System Space Programs Program increase: Cybersecurity	16,484	121,984	+ 105,500 + 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
121	Improving Funds Management: Program delays			- 58,792
121	Joint Tactical Information Distribution System [JTIDS]	19,503	29,503	+10,000
133	nodal analysis Trusted & Assured Microelectronics		00.070	+10,000
100	Program increase: Next generation microelectronics	56,178	98,678	+ 42,500 + 40,000
	Program increase: New trust approach development			+ 2,500
139	Central Test and Evaluation Investment Development (CTEIP) Program increase: Advanced hypersonic wind tunnel ex-	258,796	278,096	+19,300
	perimentation			+10,000
140	Program increase: Defense threat center of excellence			÷ 9,300
142	Joint Mission Environment Test Capability [JMETC]	84,184	89,184	+5,000
145	Program Increase: Cyber range capacity and development			+ 5,000
145	Classified Program USD(P)		100,000	+ 100,000
150	Classified adjustment			+ 100,000
100	Program increase: Academic support	1,693	5,693	+ 4,000 + 4,000
160	Defense Technology Analysis	24,487	27.487	+ 3,000
	Program increase: Defense lab transfer and transition	21,107	27,407	: 0,000
100	manufacturing			+ 3,000
163	Development Test and Evaluation	20,179	25,179	+5,000
171	Program increase: Improve software testing capabilities  Defense Operations Security Initiative (DOSI)			+ 5,000
1/1	Program increase: Defense operations security initiative		10,008	+7,000
177	Combined Advanced Applications		16,363	+7,000 -5,000
	Improving funds management: Requirement previously			,
180	funded		250 520	- 5,000
100	Program increase: Artificial intelligence—Project Maven		259,529	+ 150,000 + 150,000
192	Industrial Base Analysis and Sustainment Support	10.376	63.876	+ 53,500
	Program increase		00,070	+3,500
	Program Increase: Expand manufacturing capability for			. 0,000
				+10,000
	Program Increase: Large scale classified electron beam			+15,000
	Program increase: Risk reduction for tungsten defense			+15,000
195	Products			+10,000
	opment)	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
248			100.000	-1,000
140	Aviation Systems	184,993	182,862	-2,131 -3,879

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Line	ltem	2019 budget estimate	Committee recommendation	Change from budget estimate
	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 ex- cess growth			- 4,000
	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
200	Program increase: UAS anti-icing	[		+ 6,000
258	Teleport Program	2.323	723	-1.600
230	Improving funds management: Unjustified growth	2,020		-1,600
300	National Security Innovation Activities		75,000	+ 75,000
	Senate NDAA			+ 75,000
999	Classified Programs	3.877.898	3.843.141	- 34.757
233	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 Committee 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 com-

prehensive 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 \$5,000,0000 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

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 Depart-National Defense Education Program and encourages the Department to partner with the Goldwater Foundation for additional education scholarships.

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## 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	ltem	2019 budget estimate	Committee recommendation	Change from budget estimate
1 2 3	Operational Test and Evaluation Live Fire Test and Evaluation Operational Test Activities and Analyses Program increase for T&E infrastructure Program increase: Advanced satellite navigation receiver	85,685 64,332 70,992	85,685 64,332 230,992	+ 160,000 + 150,000 + 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 haven 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:

Пп	thousan	ds of	dollars]

ltem	2019 budget estimate	Committee recommendation	Change from budget estimate
Arsenals InitiativeProgram increase	59,002	158,002	+ 99,000 + 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

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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	
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	ltem	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 EVAL-	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:  $\ensuremath{\mathsf{Committee}}$ 

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ſΙn	thousands	nf	dollarel	

łtem	2019 budget estimate	Committee recommendation	Change from budget estimate
Operation and Maintenance	32,145,395	31,588,995	- 556.40
In-House Care	9,738,569	9,499,169	- 239,40
Improving funds management: Travel excess growth			- 5,30
Improving funds management: Printing and reproduction			0,00
excess growth			4,100
Improving funds management: Pharmaceutical drugs ex- cess growth			
Improving funds management: Medical care contracts		***************************************	-140,000
excess growth			
Private Sector Care	15 100 705		- 90,000
Improving funds management: Pharmaceutical drugs ex-	15,103,735	14,875,735	-228,000
case growth			
cess 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			1 70,000
delay	***************************************		-55,000
Improving funds management: TMIP-1 funds excess to			30,000
need			-20,000
Improving funds management: JOMIS funds excess to			-20,000
need			E 000
Management Activities	307,629		-5,000
Education and Training	756.778		10.500
Program increase: Specialized medical pilot program	, -	737,278	- 19,500
Improving funds management: Historical underexecution			+2,500
Base Operations and Communications		0.004.045	- 22,000
Improving funds management: Visual information sys-	2,090,845	2,084,345	-6,500
toma undaravas, tis -			
Improving funds management: Defense Health Head-			-3,000
Cupriors protoching access of			
ocurement			-3,500
search and Douglanmont	873,160		
search 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			7 04,000
health research			+60,000
Chronic pain management			+10,000
Joint warfighter medical research			+50,000
	1167		+ 10.000
_			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 Defense.

partment 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 expenditure 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 de-

ployments 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 procure ment 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 GEN-ESIS 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 Affairs, and Related Agencies on the progress of interoperability be-

tween 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, noninvasive 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 infecsegmental focal bullosa, diseases, epidermolysis tious 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, metalogical diseases, lung injury, lupus, metalogical als 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 Agen-

cy'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 De-

partment 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 al-

ternatives, 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 Na-

tional 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 posttraumatic 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 pro-

ductivity 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, includ-

ing 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 applicable; 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 infec-

tious 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.

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## 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)	usands]					
Line	Itam	8	2019 budget	ā	Committee	Change from	: from
		· Car	estimate	rig.	recommendation	Oty.	Budget
	CHEMICAL AGENTS AND MUNITIONS DESTRUCTION, DEFENSE						
- ~	CHEM DEMILITARIZATION—OPERATION AND MAINTENANCE		105,997		105 997		
2	FRUCUKEIMENI —RESEARCH, DEVELOPMENT TEST AND EVALUATION		1,091		1,091		
	- CAPPOINT INC. TAPPOINT INC.		886,728		886,728		
	IOTAL, CHEMICAL AGENTS AND MUNITIONS DESTRUCTION, DEFENSE		993.816		210 000		
			070,000	***************************************	333.815		

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## DRUG INTERDICTION AND COUNTER-DRUG ACTIVITIES, DEFENSE

Appropriations, 2018	\$934,814,000
Appropriations, 2016	787,525,000
Budget estimate, 2019	
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:

Item	2019 budget estimate	Committee recommendation	Change from budget estimate
Drug Interdiction And Counter Drug Activities	547,171	507,171	40,000 40,000
Drug Demand Reduction Program National Guard Counter—Drug Program National Guard counter—drug plans	117,900 117,178 5,276	117,900 217,178 30,276	+ 100,000 + 100,000 + 25,000
National Guard counter-drug schools			+ 25,000
	Drug Interdiction And Counter Drug Activities	Drug Interdiction And Counter Drug Activities 547,171 Improving funds management: Excess Train and Equip Funding 117,900 National Guard Counter—Drug Program 117,178 National Guard Counter—drug plans 117,178 National Guard Counter—Drug Schools 5,276 National Guard counter—drug schools 5,276	Trug   Interdiction   And   Counter   Drug   Activities   S47,171   S07,171

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## OFFICE OF THE INSPECTOR GENERAL

Appropriations, 2018	\$321,887,000
budget estimate, 2019	900 079 000
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]
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Item	2019 budget estimate	Committee recommendation	Change from budget estimate
Office of the Inspector General, Operation and Maintenance Transfer: Department requested to RDTE for DCATSe and CRIMS	327,611	325,236	- 2,375
Office of the Inspector General, Research and Development	1,602	3,977	- 2,375 + 2,375 + 2,375
Office of the Inspector General, Procurement	60	60	+ 2,3/3
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	\$514,000,000 514,000,000 514,000,000

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
Appropriations, 2010	539,124,000
Budget estimate, 2019	529,624,000
Committee recommendation	525,024,000

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 provi-

sion 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 pro-

vision carried in previous years. SEC. 8010. Multiyear Procurement Authority.—Retains and modi-

fies 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 car-

ried in previous years.

SEC. 8031. Asia-Pacific Regional Initiative.—Retains and modi-

fies 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:

	Amout
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 UH-1N Replacement	8,900,000 3,037,000
Compass Call VC-25A Mod	5,352,000 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 17,600,000

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	Amout
Defense Health Program—Procurement:	
Procurement JOMIS carryover	2,413,00
2018 Appropriations	2,413,00
Aircraft Procurement, Army:	
Utility F/W Aircraft	4,939,00
wissie Procurement, Army:	
Guided MLRS Rocket (GMLRS)	80,000,00
ATACMS Mods	69,400,00
Bradley Program (MOD)	
Common Remotely Operated Weapons Station	190,000,00
M2 50 Cal Machine Gun Mods	10,000,00
Other Procurement, Army:	10,506,00
Joint Light Tactical Vehicle	46,389,00
Signal Mudernization Program	15,000,00
Persistent Cyber Training Environment	4,000,00
indirect Fire Protection Family of Systems	50,000,000
Ancial Floculement, Navy:	00,000,00
V-22 (Medium Lift)	14,600,000
Other Procurement, Navy:	- 1,500,500
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 MQ-9 Mods—DAS-4 Upgrades	22,139,000
Initial Spares/Repair Parts—MQ-9 Reaper DAS-4 Spares	10,600,000
RQ-4 Post Production Charges—MS-177A	14,600,000
Classified adjustment	67,427,000
pace Procurement, Air Force:	10,400,000
FAB-T	20,000,000
WG5	41,000,000
GPS III Space Segment	35,500,000
EELV	45,800,000
SBIK HIGH	50,000,000
rocurement of Ammunition, Air Force:	
General Purpose Bombs	17,100,000
Classified adjustmentsesearch, Development, Test and Evaluation, Army:	128,500,000
Landmine Warfare and Barrier— Ady Dev	F1 000 000
Cyberspace Operations Forces and Force Support	51,380,000
iniality Support Weapons	5,676,000
ilitality Support weapons	18,689,000 22,500,000
Army factical Command & Control Hardware & Software	4,848,000
indirect Fire Protection Capability Increment	215,000,000
Joint Light Tactical Vehicle EMD	5,677,000
COMDAT Vehicle Improvement Programs—Readley	40,000,000
INFORMATION Systems Security Program—COMSEC Equipment	73,614,000
search, Development, Test and Evaluation, Air Force:	
HC/MC/-130 RDT&E	20,300,000
Minuteman Squadrons	7,000,000
MQ-9 UAV Protected Tactical Service	5,400,000
Protected SATCOM Services	20,000,000
Space Fence	12,000,000
GPS III	8,000,000
JSPUG MISSION SUPPORT	19,200,000
JOIANO RECORD	30,000,000 383,400,000
search, Development, Test and Evaluation Defense-Wide:	303,400,000
Classified adjustment (USD (P))	25,000,000

	Amout
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

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 car-

ried 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 provi-

sion 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 pro-

vision 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 car-

ried 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 provi-

sion 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 provi-

sion 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 car-

ried 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 pre-

vious years. SEC. 8110. Global Engagement Center Reprogrammings.—Re-

tains 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.

#### 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 pre-

viously 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	ltem	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	
	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	

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#### [In thousands of dollars]

Line	ltem	2019 budget estimate	Committee recommendation	Change from budget estimate
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			
005 010 025 .030	Basic Pay Retired Pay Accrual Basic Allowance for Housing Basic Allowance for Subsistence	74,977 18,520 25,660 2,623	74,977 18,520 25,660 2,623	
035 040	Incentive Pays	540 3,562	540 3,562	
045 055	Allowances Social Security Tax	8,096 5,736	8,096 5,736	1999111919411144444
	Total	139,714	139,714	
	BA 2: Pay and Allowances of Enlisted			
060	Basic Pay	86,888	86,888	***************************************

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#### (in thousands of dollars)

Line	Item	2019 budget estimate	Committee recommendation	Change from budget estimate
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]
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Line	ltem	2019 budget estimate	Committee recommendation	Change from budget estimate
	BA 1: Pay and Allowances of Officers			
005	Basic Pay	27,939	27,939	
010		6,901	6,901	
025		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	

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#### [In thousands of dollars]

Line	ltem	2019 budget estimate	Committee recommendation	Change from budget estimate
055	Social Security Tax	2,137	2,137	
	Total	52,590	52,590	
	BA 2: Pay and Allowances of Enlisted			
060 065 080	Basic Pay Retired Pay Accrual	21,663 5,351	21,663 5,351	
085 090	Basic Allowance for Housing Incentive Pays Special Pays	12,633 28 6,442	12,633 28 6,442	
095 100	Allowances Separation Pay	5,321 467	5,321 467	
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			
175 216	Interest on Uniformed Services Savings	238 415	238 415	
	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	ltem .	2019 budget	Committee	Change from budget estimate
	TO III	estimate	recommendation	budget estimat
	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	
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	**************************

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#### [In thousands of dollars]

Line	ltem	2019 budget estimate	Committee recommendation	Change from budget estimate
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.

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## COMMITTEE RECOMMENDED PROGRAM

The following table details the program recommended by the Committee:

#### [In thousands of dollars]

Line	/tem	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	ltem	2019 budget estimate	Committee recommendation	Change from budget estimate
	BA 1: Reserve Component Training and Support			
080 090	Special Training	2,336 44	2,336 44	
	Total	2,380	2,380	
	Total, Reserve Personnel, Marine Corps	2,380	2,380	

## RESERVE PERSONNEL, AIR FORCE

Appropriations, 2018	******
Budget actimate 2010	\$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	ltem	2019 budget estimate	Committee recommendation	Change from budget estimate
	BA 1: Reserve Component Training and Support			
080	Special Training	21,076	21,076	

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#### (in thousands of dollars)

Line	ltem	2019 budget estimate	Committee recommendation	Change from budget estimate
	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
Budget estimate, 2019	195,283,000
Committee recommendation	130,200,000

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	ltem	2019 budget estimate	Committee recommendation	Change from budget estimate
	BA 1: Reserve Component Training and Support			
010	Pay Group A Training (15 Days & Drills 24/48)	47,114	47,114	
070	School Training	2,939	2,939	
080	Special Training	135,655	135,655	
090	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 5,460,000 5,460,000
Committee recommendation	0,400,000

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	łtem	2019 budget estimate	Committee recommendation	Change from budget estimate
	BA 1: Reserve Component Training and Support			
080	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	Avaition 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	, 555,555
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		0,000	-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	ltem	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	41914141414
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	+480,00
1010	Maintain program affordability: Unjustified growth		-,,	-20,00
	Transfer: From Title II to Title IX for OCO Operations			+ 500,000
1B2B	Ship Operations Support & Training	20,236	20.236	
1B4B	Ship Deoot 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	
106C	Combat Support Forces	635,560	635,560	
107C	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		- 165,00
20011	Coast Guard funded in Department of Homeland Security			
	bill			- 165,00
3B1K	Specialized Skill Training	51.138	51,138	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
4A1M	Administration	4,145	4.145	
4A4kii	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	+ 815,00

### 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 C31 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	0,000
021A	Airlift Operations	1,287,659	1,087,659	- 200.000
	Maintain program affordability: Unjustified growth			- 200,000
021D	Mobilization Preparedness		107.064	,

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### [in thousands of dollars]

Line	ltem	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	Servicewide Communications	131,123	131,123	
042G	Other Servicewide 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	ltem	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	<b>— 14,65</b> 3
	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
	Lift and Sustain			- 50.00
	Defense Threat Reduction Agency	302,250	321,900	+ 19,650
	Program increase: JIDO Assist Situational Under-			
	standing			+ 19,65
	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	- 195,00

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.

# 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
113 121 131	Echelons Above Brigade Force Readiness Operations Support Base Operations Support	20,700 700 20,487	20,700 700 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	25 627 000
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	

#### [in thousands of dollars]

Line	ltem.	2019 budget estimale	Committee recommendation	Change from budget estimate
1A5A 1C6C	Aircraft Depot Maintenance	11,400 13,737	11,400 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	ltem	2019 budget estimate	Committee recommendation	Change from budget estimate
1A1A BSS1	Operational Forces	2,550 795	2,550 795	
	Total,Operation and Maintenance, Marine Corps Re- serve	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
Committee recommendation	- , ,

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	ltem	2019 budget estimate	Committee recommendation	Change from budget estimate
011M 011Z	Depot Purchase Equipment Maintenance	51,000 9,500	51,000 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	ftem	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	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	ltem	2019 budget estimate	Committee recommendation	Change from budget estimate
011G 011Z	Mission Support Operations	3,560 12,310	3,560 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:

Line	ltem	2019 budget estimate	Committee recommendation	Change from budget estimate
	Sustainment	1,522,777	1,365,956	- 156,821
	Insufficient budget justification	137.732	82.540	- 156,821 - 55,192

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[in thousands of dollars]

line	Item	2019 budget estimate	Committee recommendation	Change from budget estimate
	Insufficient budget justification	***************************************		- 55,19
	Equipment and Transportation	71,922	61,922	- 10,000
	Insufficient budget justification			-10,000
	Training and Operations	175,846	155,846	-20,00
	Insufficient budget justification			-20,00
	Subtotal: Afghan National Army	1,908,277	1,666,264	-242,013
	Sustainment	527,554	487,554	- 40,00
	Insufficient budget justification			- 40,00
	Infrastructure	42,984	25,000	- 17,98
	Insufficient budget justification			- 17,98
	Equipment and Transportation	14,554	14,554	
	Training and Operations	181,922	86,501	- 95,42
	Insufficient budget justification		***************************************	- 95,42
	Subtotal: Afghan National Police	767,014	613,609	- 153,40
	Sustainment	942,279	902,452	- 39,82
	Insufficient budget justification			— 39,82
	Infrastructure	30,350	30,350	
	Equipment and Transportation	572,310	537,310	- 35,00
	Insufficient budget justification			- 35,00
	Training and Operations	277,191	259,801	- 17,39
	Insufficient budget justification			- 17,39
	Subtotal: Afghan Air Force	1,822,130	1,729,913	-92,21
	Sustainment	353,734	353,734	
	Infrastructure	43,132	43,132	
	Equipment and Transportation	151,790	136,790	- 15,00
	Insufficient budget justification			-15.06
	Training and Operations	153,373	123,373	- 30.00
	Insufficient budget justification			- 30,0
	Subtotal: Afghan Special Security Forces	702,029	657,029	- 45,00
	Total, Afghanistan Security Forces Fund	5,199,450	4,666,815	- 532,63

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 be-

tween 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:

Line	ltem	2019 budget estimate	Committee recommendation	Change from budget estimate
	Counter-ISIS Train and Equip Fund	1,400,000	994,000	406,000
	Items			-84,000
	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	ltem	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:

Line	ltem	2019 budget estimate	Committee recommendation	Change from budget estimate
2	MSE MissileHellfire Sys Summary	260,000 255.040	260,000 193,674	- 61,366

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### [In thousands of dollars]

Line	item	2019 budget estimate	Committee recommendation	Change from budget estimate
	Improving funds management: Munitions funded in Pub-			
	lic Law 115–141		***************************************	- 50,000
	Insufficient budget justification: Reimbursable to direct conversions unaccounted for			-1,366
	port 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	ltem	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
11ph op 1 adons, 2016	\$191,536,UUU
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	ltem	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	<b>— 10,45</b>
	Improving funds management: program delays			<b>– 10,45</b>
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	- 10,45

### 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	ltem .	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	<b>- 76,000</b>
	Transfer: Army requested transfer to OPA line 12			<b>- 76,000</b>
11	Pls Esp			
12	Hvv 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	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		-:
59	Base Support Communications	690	690	

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[In thousands of dollars]

Line	ltem	2019 budget estimate	Committee recommendation	Change from budget estimat
60	Information Systems	. 8,750	8,750	
63	Installation Info Infrastructure Mod Program	60 227	60,337	
68	B   DCGS—A [MIP]	37.806		
70	Trojan [MIP]	6,926	37,806	
71	Mod of In-Svc Equip (Intel Spt) [MIP]	2,011	6,926	
72	CI HUMINT Auto Reprting & Coll [CHARCS] [MIP]	2,011	2,011	
75	Biometric Tactical Collection Devices [MIP]	E 270	F 270	
80	Crew	5,370	5,370	
81	Family of Persistent Surveillance Cap. [MIP]	42,651	42,651	***************************************
82	Counterintelligence/Security Countermeasures	20,050	20,050	***************************************
85	Night Vision Devices	12,974	12,974	
86	Long Range Advanced Scout Surveillance System	463	463	***************************************
87	Small Tactical Optical Rifle Mounted MLRF	2,861	2,861	
88	Radiation Monitoring Systems	60	60	
00	Maintain program offerdability University	11		-11
90	Maintain program affordability: Unjustified request			-1.5
91	Indirect Fire Protection Family of Systems	251,062	251,062	
94	Family of Weapon Sights (FWS)	525	525	,
34	Joint Battle Command—Platform [JBC—P]	26,146	18,300	7,846
	Maintain program affordability: Unjustified program	1		
or	growth			-7.846
96	Mod of In—Svc Equip [LLDR]	4,050	4,050	
97	Computer Ballistics: LHMBC XM32	960	960	
98	Mortar Fire Control System	7,660	7 000	*
99	Counterfire Radars	165,200		
102	AIR & MSL Defense Planning & Control Sys			
112	Automated Data Processing Equip	28,475		*********************
121	Protective Systems	27		
122	Family of Non-Lethal Equipment [FNLE]	20,200	00.000	
123	Base Detense Systems [BDS]	39,200		
124	CBRN Defense	2,317		
129	Grnd Standoff Mine Detectn Sysm [GSTAMIDS]	16.000		
	Maintain program affordability: Unjustified program growth		14,335	- 1,665
30	Area Mine Detection System [AMDS]	) DV (II)		-1,665
	Maintain program affordability: Unjustified request			-1
32	Robotic Combat Support System (DOCC)			-1
36	Robotic Combat Support System [RCSS]	4,850	4,850   .	
130	Remote Demolition Systems			-1
39	Maintain program affordability: Unjustified request			-1
	Heaters and ECU'S	270	270	
41	Personnel Recovery Support System [PRSS]	4,300	4,300	
.42	Ground Soldier System	1,725		***************************************
44	Force Provider	55,800		*******************
45	Field Feeding Equipment	1,035	1.005	
46	Cargo Aerial Del & Personnel Parachute System	1,980	1.000	***************************************
51	Combat Support Medical	17,527		
52	Mobile Maintenance Equipment Systems			
53	Items Less Than \$5.0M (Maint Eq)	268	200	
56	Hydraulic Excavator			
59	High Mobility Engineer Excavator [HMEE]	25,700		
65	Generators and Associated Equip	569	560	
12	rraining Devices, Nonsystem	- 1		
/4	Integrated Family of Test Equipment [IFTE]	9,495		
76 li	M25 Stabilized Binocular			
- 1	Maintain program affordability University			- 33
77   1	Rapid Equipping Soldier Support Equipment		10.000	- 33
8 1	Physical Security Systems (OPA3)	18,000		
9 1	Base Level Common Equipment	6,000		*******
80   i	Modification of In-Svc Equipment (OPA3)	2,080		
	-	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
	80,119,000
Committee recommendation	00,110,000

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	ltem	2019 budget estimate	Committee recommendation	Change from budget estimate
25	STUASI O UAV	35,065	35,065	
32	SH-60 Series	4,858	4,858	
34	FP=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	ORC	2,410	2,410	
63	RQ-21	17,215	17,215	
	Total, Aircraft Procurement, Navy	80,119	80,119	

# WEAPONS PROCUREMENT, NAVY

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 deliars]

Line	ltem	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	
	Small Arms and Weapons	1,540	1,540	
35 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
Appropriations, 2010	246,541,000
Budget estimate, 2019	223,312,000
Committee recommendation	220,012,000

The Committee recommends an appropriation of \$223,312,000. This is \$23,229,000 below the budget estimate.

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### COMMITTEE RECOMMENDED PROGRAM

The following table details the program recommended by the Committee:

Line	ftem	2019 budget estimate	Committee recommendation	Change from budget estimate
1	General Purpose Bombs	62,530	41,530	-21,000
	quirements			-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	1,007	- 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	<b>– 23,229</b>

### 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	dol	lars]
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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			-6,00
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	-6,00

### 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:

Line	ltem	2019 budget estimate	Committee recommendation	Change from budget estimate
22 37 45	Fire Support System	5,583 44,440 8,000	5,583 44,440 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:

Line	ftem	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
D 1	Φ401, 100,000
Budget estimate, 2019	493.526.000
0	
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	444

# 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	loint Direct Attack Munition	738,451	688,451	- 50,000
ŭ	Improving funds management: Previously funded re- quirement	4		- 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

	\$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:

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	-20,90
	D-RAPCON	***************************************	,	- 20,90
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	

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### [In thousands of dollars]

Line	ftem	2019 budget estimate	Committee recommendation	Change from budget estimate
59 999	DCGS-AF	2,000 3,229,364	2,000 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

Line	ltem	2019 budget estimate	Committee recommendation	Change from budget estimate
8	Teleport Program	3,800	3,800	
17	Deletise information Systems Network	12,000	12,000	
25	Counter IED & Improvised Threat Technologies	5.534		
47	Manned ISR	5,000	5,534	
48	MC-12	5,000	5,000	***************************************
49	MH-60 Blackhawk		5,000	
51	Unmanned ISR	27,600	27,600	
52	Non-Standard Aviation	17,000	17,000	***************************************
53	U-28	13,000	13,000	
54	MH-47 Chinook	51,722	51,722	
61	Ordnance Items <\$5M	36,500	36,500	
	Restoring acquisition account that	100,850	85,850	-15,000
	Restoring acquisition accountability: Unit cost adjust- ments			
62	Intelligence Systems	10 500	10.500	-15,000
64	Other Items <\$5M	16,500	16,500	
67	Tactical Vehicles	7,700	7,700	
68	Warrior Systems <\$5M	59,891	59,891	
69	Combat Mission Requirements	21,135	21,135	***************************************
71	Operational Enhancements Intelligence	10,000	10,000	
73	Operational Enhancements Intelligence	10,805	10,805	
999	Operational Enhancements	126,539	126,539	
555	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	\$235,368,000 325,104,000 325,104,000
Committee recommendation	525,104,000

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
r.c	Air and Missile Defense Systems Engineering	1,000	1,000	
56	Smoke, Obscurant and Target Defeating Sys—Adv Dev	1,500	1,500	
58	Soldier Support and Survivability	3.000	3,000	
60	Maneuver—Short Range Air Defense (M—SHORAD)	23,000	23,000	
76	TRACTOR CAGE	12.000	12,000	
88	Air Defense Command, Control and Intelligence—Eng Dev	119,300	119,300	
100	TRACTOR TIRE	66,760	66,760	
125	Common Infrared Countermeasures (CIRCM)	2,670	2,670	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
128	Aircraft Survivability Development	34,933	34,933	,
136	TROJAN—RH12	1,200	1,200	
147	Weapons and Munitions Product Improvement Programs	2,548	2,548	
184	TRACTOR SMOKE	7,780	7,780	
185	Missile/Air Defense Product Improvement Program	2.000	2,000	
206	Integrated Base Defense—Operational System Dev	8.000	8.000	
209		23.199	23,199	
216	Security Intelligence Activities	14.000	14.000	
226	Airborne Reconnaissance Systems	2,214	2.214	
231	Biometrics Enabled Intelligence			
	Total, Research, Development, Test and Evaluation,	225 104	325.104	
	Army	325,104	323,104	

# RESEARCH, DEVELOPMENT, TEST AND EVALUATION, NAVY

Appropriations, 2018	\$167,565,000 167,812,000 167,812,000
Committee recommendation	

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:

Line	îtem	2019 budget estimate	Committee recommendation	Change from budget estimate
74	RETRACT LARCH  Joint Service Explosive Ordnance Development  Land Attack Technology  Ship Self Defense (Detect & Control)	18,000 13,900 1,400 1,100	18,000 13,900 1,400 1,100	

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### [In thousands of dollars]

Line	ltem	2019 budget estimate	Committee recommendation	Change from budget estimate
236 XXX	Marine Corps Communications Systems  Classified Programs  Total, Research, Development, Test and Evaluation.	. 16,130 117,282	16,130 117,282	
	Navy	167,812	167,812	

# RESEARCH, DEVELOPMENT, TEST AND EVALUATION, AIR FORCE

Appropriations, 2018	\$129,608,000
Budget estimate, 2019	214 971 000
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	ltem	2019 budget estimate	Committee recommendation	Change from budget estimate
65 70	Space Control Technology	1,100	1,100	
186	Operationally Responsive Space	12,395 4,500	12,395 4,500	*******************************
187	Joint Counter RCIED Electronic Warfare	4,000	4,000	
188 217	A-10 Squadrons Battlefield Abn Comm Node (BACN)	1,000	1,000	***************************************
228	Intel Data Applications	42,349 1,200	42,349 1.200	
254 268	Weather Service	3,000	3,000	
272	Dragon U-2 Distributed Common Ground/Surface Systems	22,100 29.500	22,100 29,500	***************************************
310	AF TENCAP	5,000	5,000	***************************************
	Classified Programs Classified adjustment	188,127	161,827	- 26,300
- II	Α (			- 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	***
Appropriations, 2018	\$394,396,000
Budget estimate, 2019	500,544,000
Committee recommendation	204 002 000

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:

Line	ltem	2019 budget estimate	Committee recommendation	Change from budget estimate
24	Combating Terrorism Technology Support	25,000		- 25,000
26	Transfer funding to RDDW Base, Line 24: Anti-Tunneling Counter Improvised-Threat Simulation	13,648	13.648	- 25,000

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[In thousands of dollars]

Line	item	2019 budget estimate	Committee recommendation	Change from budget estimate
94	Counter Improvised—Threat Demonstration, Prototype Development, and Testing	242,668	162,007	- 80,661 - 84,161
	Program increase: Hyperspectral IED detection	3.632	3.632	+3,500
250 251	Operational Enhancements	11,040	11,040	***************************************
253 254	Unmanned ISR	11,700 725	11,700 725	
LUT	Classified Programs	192,131	192131	
	Total, Research, Development, Test and Evaluation, Defense-Wide	500,544	394,883	- 105,66

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
Committee recommendation	10,100,000

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 Private Sector Care Consolidated Health Care	72,627 277,066 2,375	72,627 277,066 2,375	
	Total, Defense Health Program	352,068	352,068	

# DRUG INTERDICTION AND COUNTER-DRUG ACTIVITIES, DEFENSE

Appropriations, 2018	\$196,300,000
D 1	\$190,300,000
Budget estimate, 2019	153,100,000
0	
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	ltem	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 Coalition Support Funds	\$150,000,000 800,000,000
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-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 00, 2018, the Committee ordered favorably reported an original bill (S. 0000) 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 00–00, a quorum being present. The vote was as follows:

# 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	Out	lays
	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				
Discretionary				
Security				
Nonsecurity				
Projection of outlays associated with the recommendation:				
2019	***************************************			
2020				
2020				
2021				
2022 and future years			1	
Financial assistance to State and local governments for 2019				

<sup>&</sup>lt;sup>1</sup>There is no section 302(a) allocation to the Committee on Appropriations for fiscal year 2019.

<sup>&</sup>lt;sup>2</sup> Includes outlays from prior-year budget authority.
<sup>3</sup> Excludes outlays from prior-year budget authority.

NA: Not applicable.

COMPARATIVE STATEMENT OF NEW BUDGET (OBLIGATIONAL) AUTHORITY FOR FISCAL YEAR 2018 AND BUDGET ESTIMATES AND AMOUNTS RECOMMENDED IN THE BILL FOR FISCAL YEAR 2019

To thousands of dollars

lin thousands of dollars)	ollars]				
:	2018		Committee	Senate Committee recommendation compared with $(+ \text{ or } -)$	recommendation h (+ or -)
IRBI	appropriation	panger estimate	recommendation	2018 appropriation	Budget estimate
TITLE 1					
MILITARY PERSONNEL					
Illiary personnel, Army					
ilitary personne). Navy			***************************************		