

DEPARTMENT OF DEFENSE APPROPRIATIONS BILL, 2020

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XXX XX, 2019.—Committed to the Committee of the Whole House on the State of  
the Union and ordered to be printed

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Mr. VISCLOSKY of Indiana, from the Committee on Appropriations,  
submitted the following

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R E P O R T

[To accompany H.R.        ]

The Committee on Appropriations submits the following report in explanation of the accompanying bill making appropriations for the Department of Defense, and for other purposes, for the fiscal year ending September 30, 2020.

BILL TOTALS

Appropriations for most military functions of the Department of Defense are provided for in the accompanying bill for fiscal year 2020. This bill does not provide appropriations for military construction, military family housing, civil defense, and military nuclear warheads, for which requirements are considered in connection with other appropriations Acts.

The President's fiscal year 2020 budget request for activities funded in the Department of Defense Appropriations Act totals \$698,212,379,000 in new budget obligational authority.

COMPARATIVE STATEMENT OF NEW BUDGET AUTHORITY FOR 2019 AND BUDGET REQUESTS AND AMOUNTS RECOMMENDED IN THE BILL FOR 2020  
(Amounts in Thousands)

	FY 2019 Enacted	FY 2020 Request	Bill	Bill vs. Enacted	Bill vs. Request
RECAPITULATION					
Title I - Military Personnel.....	138,537,041	143,476,503	141,621,649	+3,084,608	-1,854,854
Title II - Operation and Maintenance.....	193,682,875	123,944,614	206,691,018	+13,008,143	+82,746,404
Title III - Procurement.....	135,382,619	118,923,130	130,303,576	-5,059,043	+11,380,446
Title IV - Research, Development, Test and Evaluation.....	94,896,708	102,647,545	100,691,612	+5,794,904	-1,955,933
Title V - Revolving and Management Funds.....	1,641,115	1,426,211	1,426,211	-214,904	---
Title VI - Other Department of Defense Programs.....	36,212,133	35,147,087	35,629,292	-582,841	+482,205
Title VII - Related Agencies.....	1,036,424	1,072,000	1,072,000	+35,576	---
Title VIII - General Provisions (net).....	-1,963,005	---	-2,698,173	-735,168	-2,698,173
Title IX - Global War on Terrorism (GWOT).....	67,914,000	164,230,474	68,079,000	+165,000	-96,151,474
Total, Department of Defense.....	667,319,910	690,867,564	682,816,185	+15,496,275	-8,051,379
Scorekeeping adjustments.....	7,577,090	7,858,815	7,858,815	+281,725	---
Total, mandatory and discretionary.....	674,897,000	698,726,379	690,675,000	+15,778,000	-8,051,379

## COMMITTEE BUDGET REVIEW PROCESS

During its review of the fiscal year 2020 budget request and execution of appropriations for fiscal year 2019, the Subcommittee on Defense held a total of 16 hearings and one formal briefing during the period of February 2019 to May 2019. Hearings were held in open session, except when the security classification of the material to be discussed presented no alternative but to conduct those hearings in executive or closed session.

## INTRODUCTION

The Committee recommendation for total fiscal year 2020 Department of Defense discretionary funding is \$690,161,000,000, which is an increase of \$15,778,000,000 above the fiscal year 2019 enacted level and a decrease of \$8,051,379,000 below the budget request. The recommendation includes \$622,082,000,000 in base funding and \$68,079,000,000 for overseas contingency operations/global war on terrorism funding in title IX.

With this bill, the Committee has carried out its constitutional responsibility to recommend the appropriations necessary to provide for the common defense of the Nation. The Committee did this in a collegial and bipartisan fashion consistent with its long-standing traditions.

Oversight of the management and expenditure of the \$690,161,000,000 provided to the Department of Defense and the Intelligence Community is a core function of the Defense Subcommittee. The Subcommittee performed this core function with a reinvigorated hearing schedule and a review of the budget in detail. Seventeen hearings and briefings were held as defense and intelligence agency witnesses testified before the Subcommittee to defend the fiscal year 2020 budget request, with some agencies testifying after an absence of several years.

As in years past, the Subcommittee has thoroughly reviewed the budget request and identified programs where reductions are possible without adversely affecting the safety and effectiveness of military personnel. Examples of such reductions include programs that have been restructured since the budget was submitted, savings from favorable contract pricing adjustments, contract or schedule delays resulting in savings, unjustified new programs and cost increases, funds requested ahead of need for the year of budget execution, projected or historical underexecution, and rescissions of unneeded prior year funds.

The Committee recommendation continues to support the Department's effort to align its resources with the National Defense Strategy. This strategy reorients the Department's primary focus toward the challenges posed by great powers such as China and Russia, and their efforts to counter and overcome the technological and operational superiority long enjoyed by the United States military. The Committee agrees with the Department that this technological overmatch can no longer be assumed and recommends robust funding to develop and field new weapon systems and capabilities to address these new challenges. The Committee recommendation balances this forward-looking posture with continuing investments in the restoration of readiness and the quality of life for troops and their families.

In this recommendation, the Committee provides funding for the requested pay raise of 3.1 percent, but also recognizes the unique challenges military service poses to family life. Unconventional work hours and long-term deployments pose challenges for all servicemembers but are particularly difficult for those with children in need of childcare. The recommendation provides additional funding to increase capacity for childcare to aid in improving quality of life for servicemembers and directs the military Services to provide more information about the needs of childcare in future budget submissions. The Committee believes that access to affordable and quality childcare is one of the lynchpins to retention in the all-volunteer force, particularly for mid-career enlisted and officers.

The fiscal year 2020 budget request proposes numerous changes, new programs, and a new military force. The Committee acknowledges the need for change to address persistent problems and emerging threats. However, without detailed budget justification submitted in a timely manner, the Committee cannot recommend full funding for these initiatives. For example, an organization's budget request was submitted with one page of justification; funding requests for programs with one paragraph of explanation; and requests for additional information unfulfilled.

The Committee recommendation reasserts the congressional power of the purse against the administration's abuse of the transfer authority and reprogramming privileges provided in this Act. The Committee strongly opposes the Department's use of funds appropriated for military requirements to subsidize border wall construction. This action flouts a long-standing tradition of comity and cooperation between the executive and legislative branches that exists to meet unforeseen requirements and higher military priorities that inevitably arise between the submission of the budget request and the execution of those funds pursuant to congressional appropriations legislation. The Committee recommendation includes provisions to prevent and deter the further misuse of funds recommended by the Committee, and still allows for the meeting of urgent and emerging military requirements.

The Committee notes its disappointment of the administration's unwillingness to confront the reality of the Budget Control Act in the budget request presented for fiscal year 2020. While the initial impact of the Budget Control Act on the Department of Defense was severe, the Department received a total of \$264,000,000,000 in base budget relief since fiscal year 2012. Much of that budget relief occurred in fiscal years 2017 to 2019 when the Department's budget increased nominally by 13 percent. The fiscal year 2020 budget request proposes another increase of approximately \$33,000,000,000, or 4.9 percent. Rather than addressing the need to raise the Budget Control Act caps to support its defense budget, the choice was made instead to submit a request for nearly \$100,000,000,000 in overseas contingency operations (OCO) funds to fulfill base budget requirements to circumvent the caps. These "OCO for base" funds are in addition to OCO for direct and enduring costs associated with current operations. The Committee recommendation rejects the request to use OCO for entire appropriations within the bill and restores the proper balance of base and OCO funds.

While the Committee recommendation continues to support, through the overseas contingency operations appropriation, ongoing combat operations in Afghanistan, the Committee believes after almost eighteen years all efforts should be made to transition these enduring requirements into the base budget, especially if the United States military will serve there for the foreseeable future.

The Committee also notes the fiscal year 2020 budget submission recognizes the large increases for the Department of Defense are unsustainable and slows the rate of growth through the future years defense program. This contradicts the fact that the Department submitted a fiscal year 2020 budget request that is larger than it anticipated at this time a year ago, and the Services and combatant commands have submitted lists of unfunded requirements and priorities for fiscal year 2020 totaling approximately \$11,000,000,000. The Department claims it will be able to continue to prioritize modernization by relying on savings, reforms, and efficiencies that have been difficult to achieve. Further, the Committee notes that while the administration requests an exaggerated OCO request for fiscal year 2020, it also assumes traditional OCO expenditures will somehow dwindle to \$20,000,000,000 in fiscal year 2022, post-Budget Control Act. The Committee recommendation provides the Department with sufficient resources without resorting to gimmicks and wishful thinking.

#### 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, 2020, the related classified annexes and Committee reports, and the 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 2021, 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 2021.

#### REPROGRAMMING GUIDANCE

The Committee directs the Secretary of Defense to submit a prior approval reprogramming to the congressional defense committees for any reprogramming of funding above a threshold of \$10,000,000

for a military personnel; operation and maintenance; procurement; or research, development, test and evaluation line.

The Committee directs the Under Secretary of Defense (Comptroller) 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, 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 provided or items for which funding is specifically reduced as shown in the project level tables or in paragraphs using the phrase “only for” or “only to” in this report are congressional special interest items for the purpose of the Base for Reprogramming (DD Form 1414). Each of these items must be carried on the DD Form 1414 at the stated amount, as specifically addressed in the Committee report.

#### CLASSIFIED ANNEX

Adjustments to the classified programs are addressed in the classified annex accompanying this report.

#### COMMITTEE RECOMMENDATIONS BY MAJOR CATEGORY

##### ACTIVE, RESERVE AND NATIONAL GUARD MILITARY PERSONNEL

In title I of the bill, the Committee recommends a total of \$149,438,464,000 for active, reserve, and National Guard military personnel, a decrease of \$1,854,854,000 below the budget request, and an increase of \$3,368,333,000 above the fiscal year 2019 enacted level. The Committee recommendation provides full funding necessary to increase basic pay for all military personnel by 3.1 percent, as authorized by current law, effective January 1, 2020.

## OPERATION AND MAINTENANCE

In title II of the bill, the Committee recommends a total of \$206,691,018,000 for operation and maintenance support to the military Services and other Department of Defense entities, an increase of \$82,746,404,000 above the budget request, and an increase of \$13,008,143,000 above the fiscal year 2019 enacted level. The recommended levels will fund robust operational training, readiness, and facilities needs in fiscal year 2020.

## PROCUREMENT

In title III of the bill, the Committee recommends a total of \$130,303,576,000 for procurement.

Major initiatives and modifications include:

\$1,411,540,000 for the procurement of 73 UH-60 Blackhawk helicopters;

\$798,785,000 for the procurement of 48 remanufactured AH-64 Apache helicopters;

\$1,746,007,000 for the upgrade of 165 Abrams tanks to the M1A2 system enhancement package configuration;

\$1,730,360,000 for the procurement of 24 F/A-18E/F Super Hornet aircraft;

\$1,676,057,000 for the procurement of nine P-8A Poseidon multi-mission aircraft; an increase of three aircraft and \$469,356,000 above the President's request;

\$1,070,294,000 for the procurement of six E-2D Advanced Hawkeye aircraft, an increase of two aircraft and \$325,810,000 above the President's request;

\$1,214,759,000 for the procurement of 14 V-22 aircraft, an increase of four aircraft and \$248,093,000 above the President's request;

\$793,899,000 for the procurement of six CH-53K helicopters;

\$647,351,000 for the procurement of six VH-92 executive helicopters;

\$8,672,531,000 for the procurement of 90 F-35 aircraft, an increase of \$783,836,000 and 12 aircraft above the President's request: 10 short take-off and vertical landing variants for the Marine Corps, 20 carrier variants for the Navy and Marine Corps, and 60 conventional variants for the Air Force;

\$21,699,556,000 for the procurement of 11 Navy ships, including three DDG-51 guided missile destroyers, two SSN-774 attack submarines, one Frigate, one Ford class aircraft carrier, two Towing, Salvage, and Rescue Ships, two TAO fleet oilers, the continued procurement of the Columbia Class submarine, and advance procurement for a third SSN-774 attack submarine;

\$985,500,000 for the procurement of eight F-15EX aircraft;

\$1,431,267,000 for the procurement of 16 C/MC/KC-130J aircraft, an increase of \$307,064,000 and four C-130J aircraft above the President's request;

\$413,245,000 for the procurement of 15 MQ-9 Reaper unmanned aerial vehicles, including three for the Marine Corps and 12 for the Air Force;

\$2,189,529,000 for the procurement of 12 KC-46 tanker aircraft;

\$876,035,000 for the procurement of 12 combat rescue helicopters;

\$1,237,635,000 for the procurement of four space launch services;  
and  
\$200,000,000 for the Israeli Cooperative Programs under the  
Missile Defense Agency.

#### RESEARCH, DEVELOPMENT, TEST AND EVALUATION

In title IV of the bill, the Committee recommends a total of  
\$100,691,612,000 for research, development, test and evaluation.

Major initiatives and modifications include:

\$419,051,000 for the continued development of the Columbia  
class ballistic missile submarine;

\$590,425,000 for the continued development of the unmanned  
carrier aviation program;

\$516,955,000 for the continued development of the CH-53K heli-  
copter;

\$1,613,848,000 for the continued development of the F-35 Light-  
ning Joint Strike Fighter aircraft;

\$3,003,899,000 for the continued development of the B-21 bomb-  
er;

\$757,923,000 for the development of a Presidential Aircraft Re-  
placement;

\$427,300,000 for the design, build, and test of the Army's Future  
Attack Reconnaissance Aircraft;

\$378,400,000 for the Army's Next Generation Combat Vehicle;

\$428,395,000 for Long Range Precision Fires;

\$432,009,000 for space launch services;

\$452,875,000 for the Global Positioning System IIIF;

\$445,302,000 for the Global Positioning System III Operational  
Control Segment;

\$1,193,688,000 for the Next-Generation Overhead Persistent In-  
frared system;

\$3,527,921,000 for the Defense Advanced Research Projects  
Agency; and \$300,000,000 for the Israeli Cooperative Programs  
under the Missile Defense Agency.

#### DEFENSE HEALTH PROGRAM

In title VI of the bill, the Committee recommends a total of  
\$33,463,539,000 for the Defense Health Program to support world-  
wide medical and dental services for active forces and other eligible  
beneficiaries.

#### OVERSEAS CONTINGENCY OPERATIONS/GLOBAL WAR ON TERRORISM REQUIREMENTS

In title IX of the bill, the Committee recommends a total of  
\$68,079,000,000 for overseas contingency operations/global war on  
terrorism (OCO/GWOT) requirements.

Military Personnel: The Committee recommends a total of  
\$4,485,808,000 for military personnel OCO/GWOT requirements in  
title IX of the bill.

Operation and Maintenance: The Committee recommends a total  
of \$49,772,124,000 for operation and maintenance OCO/GWOT re-  
quirements in title IX of the bill.



**Procurement:** The Committee recommends a total of \$11,748,074,000 for procurement OCO/GWOT requirements in title IX of the bill.

**Research, Development, Test and Evaluation:** The Committee recommends a total of \$844,368,000 for research, development, test and evaluation OCO/GWOT requirements in title IX of the bill.

#### SPECIAL OPERATIONS COMMAND OBLIGATION AND EXPENDITURE PLANS

The Committee seeks additional transparency regarding the obligation and expenditure of funds for the Special Operations Command procurement and research and development accounts. The existing budget justification and quarterly execution data lack certain details that enable the Committee to analyze trends and program office performance. To facilitate appropriate oversight, the Committee directs the Commander of the United States Special Operations Command to provide the House and Senate Appropriations Committees detailed spend plans at the project level for the procurement and research and development appropriations accounts. The spend plans shall include all active fiscal years, with monthly obligation and target benchmarks. The first spend plan should be provided not later than 45 days after the enactment of this Act, and subsequent spend plans should be provided annually with the submission of the budget request.

#### SUPPORTING “THE AIR FORCE WE NEED”

The Committee has considered the Air Force budget request in conjunction with the analysis produced by the Air Force in response to section 1064 of the National Defense Authorization Act for Fiscal Year 2018. This analysis, publicly referred to by Air Force leadership as “The Air Force We Need,” indicates that the Service is too small to fulfill the demands of the 2018 National Defense Strategy at a “low-moderate” level of risk. To fill this gap, the Air Force indicates a need to grow to 386 operational squadrons from the current 312 squadrons, including the addition of seven fighter squadrons. Based on this notional growth in fighter squadrons, the Air Force has identified the need to annually procure 72 new fighter aircraft.

The Committee notes that the resources to initiate and sustain such growth simply do not exist within the fiscal year 2020 budget request or future years defense program, nor does the Air Force’s five-year plan for fighter procurement achieve 72 new aircraft within any year. The plan that has been submitted to the Committee requests 48 F-35A aircraft in fiscal year 2020 and every year thereafter through 2024, a reduction of 30 aircraft compared to the 2017 Selected Acquisition Report profile for the F-35 program. In addition, the request includes funding for the procurement of eight new F-15 aircraft to begin recapitalization of the F-15C/D fleet. In this plan, F-15 procurement would grow to 18 aircraft in fiscal years 2021–2024, achieving a total fighter aircraft procurement rate of 66 during the same period.

The Committee does not view the “Air Force We Need” analysis as a definitive solution to the Air Force’s requirements under the National Defense Strategy, or as a firm goal to guide immediate resourcing decisions, but rather as the first step of an iterative an-

alytical, programming, and budgeting process to be undertaken in dialogue with the congressional defense committees. The Committee believes that the demands of the National Defense Strategy must be met with a balance of increased capacity in existing systems and the development and fielding of new capabilities, subject to fiscal constraints—which the Air Force was not required to consider in response to the section 1064 mandate.

To address concerns about capacity, including the fighter fleet that has been emphasized by Air Force leadership, the Committee recommendation includes a total of 68 new fighter aircraft. This includes the eight new-build F-15 aircraft requested and 60 F-35A aircraft, an increase of 12 aircraft above the request. The F-35A quantity of 60 is an increase of four aircraft above the fiscal year 2019 enacted level. The Committee notes that this recommendation procures more than seven “fifth generation” fighters for every single new “fourth generation” fighter. The Committee recommends this as a reasonable balance between advanced capability and near-term capacity concerns.

The Committee finds that the Air Force’s requested investments in the development of future capability generally are consistent with the requirements identified in the “Air Force We Need” analysis and considerations of affordability. The Committee’s recommendations with respect to the Air Force’s request include: full funding of the request for the F-35 continuous capability development and delivery program, also known as Block 4; full funding of the request for the B-21 bomber program; full funding of the request for the Stand-in Attack Weapon program; full funding of the request for hypersonic weapons (including the Air-launched Rapid Response Weapon and Hypersonic Conventional Strike Weapon prototyping efforts); an additional \$20,000,000 above the request for directed energy prototyping; full funding of the request for advanced engine development (which has the potential to provide increased capability and lower fuel consumption costs for the F-35 and potential future aircraft); an additional \$75,000,000 to accelerate active electronically scanned array radar upgrades for the F-16; an additional \$50,000,000 for the Low Cost Attritable Aircraft Technology program; and \$500,000,000 for the Next Generation Air Dominance program.

#### POSITIONING THE F-35 PROGRAM FOR CONTINUED SUCCESS

The Committee continues to recommend strong support for the F-35 program. The Committee recognizes that the F-35 is critical to the ability of the Department of Defense to meet the demands of the National Defense Strategy and its emphasis on great power competition, a component of which is the rapid advances made by adversaries in anti-air and basing access denial capabilities designed to negate United States advantages in technology and operational expertise.

The Committee observes that the Department of Defense, and the Air Force in particular, have sent conflicting and confusing signals with respect to the F-35 program. The fiscal year 2020 request repeats a pattern of shifting aircraft quantities to future years, reducing the planned procurement from 84 to 78. Further, the Air Force submitted a fiscal year 2020 budget request that flattens F-35A procurement at 48 aircraft per year through the future

years defense program despite the F-35A program of record remaining stable at 1,763 aircraft. The Committee also observes that departmental and Service leaders consistently have expressed concern about F-35 operation and sustainment costs. At the same time, the Chief of Naval Operations, the Commandant of the Marine Corps, and the Chief of Staff of the Air Force submitted unfunded requirements lists that included twelve additional F-35As, two additional F-35Bs, and four additional F-35Cs. The Committee recommendation includes \$1,042,800,000 for 12 additional F-35A aircraft, fully funds the Block 4 development program, and fully funds the requested increases for spares and depot activation.

The Committee acknowledges the Department's justified concerns regarding F-35 sustainment. The global F-35 fleet is projected to more than triple in size by 2023. As detailed in a recent report by the Government Accountability Office (GAO), the F-35 is failing to meet warfighter targets for availability and mission capable rates, even for later production aircraft. GAO identified spare parts as a major driver of this problem. Currently the F-35 enterprise is unable to comprehensively and accurately inventory parts, efficiently move parts between locations, accurately match deployable spares packages to deploying units, or capture cost information for all the parts that are procured. The Committee strongly supports the Department's plans to strengthen organic F-35 sustainment capability. The Committee understands the Department has requested, but as of May 2019 has not received, a proposal from the prime contractor for the data necessary to provision an organic supply chain and catalogue all F-35 parts in the Department's supply inventory. While the Committee fully funds the \$728,671,000 requested for additional spares in the Navy and Air Force's procurement budgets, the Committee lacks full confidence that such funding or the spare parts to be acquired will be used efficiently and believes that acquiring the cost and technical data for spare parts is a necessary step toward solving this problem. The Committee therefore directs that no more than 50 percent of these funds may be obligated or expended until 15 days after the Director of the F-35 Joint Program Office submits a certification to the congressional defense committees that the Department of Defense has received an adequate cost proposal for such data. The Committee further directs the Secretary of Defense to include the costs of acquiring these data, and the accounts in which such costs are to be funded, in future budget exhibits (beginning with fiscal year 2021) and briefing materials for the congressional defense committees.

#### JOINT ENTERPRISE DEFENSE INFRASTRUCTURE

The Committee is aware that the Department of Defense continues to pursue a single vendor contract strategy for procurement of its Joint Enterprise Defense Infrastructure (JEDI) cloud computing services. The Committee continues to be concerned with this approach given the rapid pace of innovation in the industry and that this approach may lock the Department of Defense into a single provider for potentially as long as ten years.

Since the Department of Defense adopted its single vendor strategy in 2017, other federal agencies have decided to pursue a multiple vendor cloud strategy as recommended by the Office of Man-

agement and Budget (OMB) “Cloud Smart” strategy. The Committee notes that the Central Intelligence Agency (CIA), on behalf of the intelligence community, is now pursuing a multi-vendor, multi-cloud approach in its new Commercial Cloud Enterprise procurement, a follow-on to its single vendor Commercial Cloud Services contract awarded in 2013. Specifically mentioned in the CIA market survey materials is a statement that, “[t]he Government is pursuing a multiple cloud strategy to increase access to cloud innovation and reduce the disadvantages associated with using a single cloud service provider.” The Committee encourages the Department of Defense to adopt lessons learned from the CIA’s experience implementing cloud computing over the past five years. Further, the Committee believes that the Department of Defense is deviating from established OMB policy and industry best practices, and may be failing to implement a strategy that lowers costs and fully supports data innovation for the warfighter.

Therefore, the Committee directs that no funds may be obligated or expended to migrate data and applications to the JEDI cloud until the Chief Information Officer of the Department of Defense provides a report to the congressional defense committees on how the Department plans to eventually transition to a multi-cloud environment, as described in its January 2019 Cloud Initiative Report to Congress. The Chief Information Officer shall provide a list of specific contracting opportunities for commercial cloud services the Department is contemplating over the next two years; a description of each contract opportunity; whether it will be structured as a full and open competition or sole source contract; the Department’s planned use for the cloud service; the estimated fiscal year and quarter for the release of each solicitation; planned contract type and structure; and estimated maximum contract value and period of performance, including each option.

Further, the Chief Information Officer of the Department of Defense is directed to submit quarterly reports on the implementation of its “Cloud Strategy and Cloud Initiative” to the House and Senate Appropriations Committees beginning not later than 30 days after the enactment of this Act.

#### ORGANIZATION AND MANAGEMENT OF SPACE PROGRAMS

The Committee recognizes that unfettered access to and freedom to operate in space is vital to national security. Space provides the nation with critical information and global situational awareness to anticipate threats, respond to crises, project power across the globe, and conduct military operations. Therefore, the Committee is very concerned with the rapid advances potential adversaries are making to develop capabilities that threaten United States space assets on orbit. The Committee commends the Department of Defense for its increased focus on addressing these threats and developing capabilities to improve the resilience of United States space systems. Further, the Committee understands that this is an urgent problem that will require the Department to reorient its strategies, organizational constructs, and program priorities to meet the reality of these threats.

The Department proposed a three-pronged approach to address these challenges: (1) establishment of a Unified Combatant Command for space, the United States Space Command; (2) stand up

of a new military service, the United States Space Force; and (3) creation of a Space Development Agency, separate from the Space Force, and under the management of the Under Secretary of Defense for Research and Engineering.

The Committee supports the establishment of a Unified Combatant Command for space and believes the command is an important step in strengthening the operational focus and emphasis on protecting and defending national space capabilities. The Committee recommendation fully funds the United States Space Command at the requested level.

The Department has also proposed legislation to establish the Space Force as a separate service within the Department of the Air Force, with an Under Secretary for Space and a Chief of Staff for Space. While the Committee appreciates the intent of the proposal, the plan leaves many unanswered questions and lacks important details and supporting analysis to justify the proposed size, scope, cost, roles, and authorities for the new military service. Further, the Committee notes that it is fully within the Department's current authority to make space a higher priority without creating a new military service and is not persuaded that the specific plan proposed justifies the additional overhead cost and disruption across the Department. Therefore, the Committee recommendation does not fully fund the request to establish the proposed Space Force. The Committee makes this decision without prejudice and includes funds for the Department to examine and refine alternative organizational options that will streamline the management and decision-making process and minimize overhead cost and bureaucracy.

The fiscal year 2020 budget request also includes funds to create a new Space Development Agency within the Office of the Under Secretary of Defense for Research and Engineering. The Committee recognizes the need for rapid development and fielding of space assets to meet the current threat environment as outlined by the National Defense Strategy. However, while the Committee is generally supportive of the concept of the Space Development Agency, the Committee is concerned that this effort may create a parallel space program that will overlap and duplicate existing programs and missions in the Air Force. Therefore, the Committee recommendation includes a legislative provision requiring the Space Development Agency and the Air Force to work together to define a unified and integrated space architecture and to clarify roles and responsibilities.

#### COMPLIANCE WITH CONTRACT SERVICES LAW

The Committee notes that 10 U.S.C. 2329 requires the Secretary of Defense to ensure that appropriate and sufficiently detailed data are collected and analyzed to support the validation of requirements for services contracts and inform the planning, programming, budgeting and execution process of the Department of Defense. Appropriated funds should not be used to fund service contracts that have not complied with the planning, programming, budgeting and total force management requirements of 10 U.S.C. sections 2329 and 2330a.

According to several findings by the Government Accountability Office, spending on service contracts has increased significantly

over the past few years. Service contracts are a more expensive substitute for hiring the authorized civilian workforce for the intended functions. The Committee reiterates that enacted legislative provisions must be fully implemented by the Department of Defense.

#### CIVILIAN CYBER WORKFORCE

The Committee recognizes that the Department of Defense has challenges hiring individuals with the necessary security clearances to work in the cyber environment and encourages the Secretary of Defense to find innovative solutions to increase the civilian cyber workforce. The Committee believes that the Department of Defense should collaborate with colleges and universities to recruit cyber-focused college students during their junior or senior years, with the intent that upon graduation the student will have a completed security clearance.

The Committee directs the Secretary of Defense to submit a report to the House and Senate Appropriations Committees not later than 60 days after the enactment of this Act on Department-wide efforts to increase recruitment of cyber-focused individuals and to increase the throughput of security clearances to grow the number of approved requisite applicants.

#### INSIDER THREAT DETECTION AND USER ACTIVITY MONITORING

The Committee remains concerned that the Department of Defense may not be in compliance with long-standing national directives aimed at preventing insider threats. The Committee is aware that the Department has established a task force to develop an approach to user activity monitoring throughout the Department. The Committee directs the Chief Information Officer of the Department of Defense, in coordination with the Undersecretary of Defense for Intelligence, to submit a report to the House and Senate Appropriations Committees not later than December 1, 2019 regarding user activity monitoring. The report shall include an update on the work of the task force; the feasibility of comprehensive user activity monitoring coverage across the Department; any obstacles to establishing such a program, to include legal, financial, contractual, or cultural issues; identification of the resources required to implement the program; and an explanation of how the program would comply with all relevant national directives aimed at preventing insider threats.

#### SPECTRUM FOR ADVANCED WIRELESS SERVICES

The Committee remains concerned by the pace with which the Department of Defense is reviewing its spectrum requirements. The Committee directs the Secretary of Defense, in coordination with the Administrator of the National Information Technology Agency, to submit a report to the congressional defense committees not later than 120 days after the enactment of this Act which details the Department's plans to submit a proposal under the Spectrum Pipeline Act to study the potential for introducing advanced wireless services in the 3450–3550 MHz band on a shared basis, the potential for spectrum sharing within the 3450–3550 MHz band to spur commercial wireless innovation, the potential for spec-

trum sharing within the 3.1–3.45 GHz band to introduce advanced wireless services, and timelines for the introduction of such advanced wireless services.

#### CYBERSPACE ACTIVITIES BUDGET JUSTIFICATION SUBMISSIONS

The Committee directs the Secretary of Defense to ensure that future cyberspace budget justification materials be delivered to the congressional defense committees not later than five days after the release of the annual budget request. Late arrival of the justification material presents an insurmountable hurdle to conducting a thorough budget review and providing proper congressional oversight.





## TITLE I

### MILITARY PERSONNEL

The fiscal year 2020 Department of Defense military personnel budget request totals \$151,293,318,000. The Committee recommendation provides \$149,438,464,000 for the military personnel accounts. The table below summarizes the Committee recommendations:

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
-----			
RECAPITULATION			
MILITARY PERSONNEL, ARMY.....	43,347,472	42,314,762	-1,032,710
MILITARY PERSONNEL, NAVY.....	31,831,199	31,679,229	-151,970
MILITARY PERSONNEL, MARINE CORPS.....	14,175,211	14,064,751	-110,460
MILITARY PERSONNEL, AIR FORCE.....	31,284,959	31,082,769	-202,190
RESERVE PERSONNEL, ARMY.....	4,964,671	4,847,321	-117,350
RESERVE PERSONNEL, NAVY.....	2,123,947	2,113,357	-10,590
RESERVE PERSONNEL, MARINE CORPS.....	838,854	829,124	-9,730
RESERVE PERSONNEL, AIR FORCE.....	2,038,040	1,993,280	-44,760
NATIONAL GUARD PERSONNEL, ARMY.....	8,808,305	8,664,535	-143,770
NATIONAL GUARD PERSONNEL, AIR FORCE.....	4,063,845	4,032,521	-31,324
GRAND TOTAL, TITLE I, MILITARY PERSONNEL.....	143,476,503	141,621,649	-1,854,854
	=====	=====	=====
GRAND TOTAL, TRICARE ACCRUAL PAYMENTS (PERMANENT, INDEFINITE AUTHORITY) (PUBLIC LAW 108-375).....	7,816,815	7,816,815	- - -
	=====	=====	=====
GRAND TOTAL, MILITARY PERSONNEL.....	151,293,318	149,438,464	-1,854,854
	=====	=====	=====

## MILITARY PERSONNEL OVERVIEW

The Committee recommendation provides \$149,438,464,000 for the military personnel accounts, which funds military pay and allowances, recruitment and retention initiatives, and overall quality of life programs for active duty, National Guard, and reserve personnel. The recommendation provides increased basic pay for all military personnel by 3.1 percent as authorized by current law, effective January 1, 2020. The Committee continues to encourage constructive evaluations of recruitment and retention programs, bonus and special pay incentives, and personnel benefit programs for fiscal year 2020. The Committee remains supportive of programs intended to enhance the morale and quality of life of military personnel and their families.

## SUMMARY OF END STRENGTH

The fiscal year 2020 budget request includes an increase of 1,400 in total end strength for the active forces and a decrease of 16,900 in total end strength for the Selected Reserve as compared to the fiscal year 2019 authorized levels. The following tables summarize the Committee recommendations for end strength levels, both in the aggregate and for each active and Selected Reserve component.

## OVERALL ACTIVE END STRENGTH

Fiscal year 2019 authorized .....	1,338,100
Fiscal year 2020 budget request .....	1,339,500
Fiscal year 2020 recommendation .....	1,337,500
Compared with fiscal year 2019 .....	– 600
Compared with fiscal year 2020 budget request .....	– 2,000

## OVERALL SELECTED RESERVE END STRENGTH

Fiscal year 2019 authorized .....	817,700
Fiscal year 2020 budget request .....	800,800
Fiscal year 2020 recommendation .....	800,800
Compared with fiscal year 2019 .....	– 16,900
Compared with fiscal year 2020 budget request .....	– – –

## SUMMARY OF MILITARY PERSONNEL END STRENGTH

	Fiscal year 2020				
	Fiscal year 2019 authorized	Budget Request	Committee Recommended	Change from request	Change from fiscal year 2019
<b>Active Forces (End Strength)</b>					
Army .....	487,500	480,000	478,000	- 2,000	- 9,500
Navy .....	335,400	340,500	340,500	- - -	5,100
Marine Corps .....	186,100	186,200	186,200	- - -	100
Air Force .....	329,100	332,800	332,800	- - -	3,700
Total, Active Forces .....	1,338,100	1,339,500	1,337,500	- 2,000	- 600
<b>Guard and Reserve Forces (End Strength)</b>					
Army Reserve .....	199,500	189,500	189,500	- - -	- 10,000
Navy Reserve .....	59,100	59,000	59,000	- - -	- 100
Marine Corps Reserve .....	38,500	38,500	38,500	- - -	0
Air Force Reserve .....	70,000	70,100	70,100	- - -	100
Army National Guard .....	343,500	336,000	336,000	- - -	- 7,500
Air National Guard .....	107,100	107,700	107,700	- - -	600
Total, Selected Reserve .....	817,700	800,800	800,800	- - -	- 16,900
Total, Military Personnel .....	2,155,800	2,140,300	2,138,300	- 2,000	- 17,500

## 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 2020 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 \$10,000,000.

## MILITARY PERSONNEL SPECIAL INTEREST ITEMS

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

## MINORITY OUTREACH AND OFFICER ACCESSIONS

Minorities remain underrepresented in the general officer ranks across the Services. To build a more diverse organization, the Committee supports efforts to conduct effective outreach and recruiting programs focused on increasing officer accessions in minority communities and encourages the Secretary of Defense and the Service

Secretaries to support efforts, with both personnel and resources, to improve diversity in the military.

#### CULTURAL SENSITIVITY TRAINING

The Committee recognizes the Department of Defense and the Services have multiple cultural sensitivity training programs for military personnel. The Committee also believes in the importance of protecting servicemembers' rights regarding religious exercise and ethnic heritage. As such, the Committee supports efforts to identify resource and personnel gaps that may exist in the Office of Diversity Management and Equal Opportunity of the Department of Defense as well as efforts to identify existing gaps in protections for new and prospective servicemembers.

#### TRAUMA TRAINING PROGRAM

The Committee recognizes the valuable support that universities, hospitals, and other military partners provide by offering civilian based emergency response trauma and critical care training including public health, bio-environmental, and biomedical instruction to sustain capabilities of the National Guard Enhanced Response Forces Packages, National Guard Homeland Response Forces, and Army Reserve Consequence Management Response Forces. The Committee encourages the Director of the National Guard Bureau and the Chiefs of the reserve components to continue pursuing advanced trauma and public health training with these civilian partners in order to maintain unit readiness. The Committee also encourages the development of enhanced medical and critical care preparedness programs.

#### SEXUAL ASSAULT PREVENTION AND RESPONSE

The Committee is troubled by the ongoing epidemic of sexual assault in the military and at the Service academies and believes that this will persist until a change in culture occurs across all Services at every level. The Department of Defense provides an annual report to Congress which provides details on sexual assaults involving servicemembers. However, the most recent report's findings make it clear that more action by the Department is necessary to combat this widespread problem. In addition to the annual report, the Committee directs the Director of the Department of Defense Sexual Assault Prevention and Response Office to brief the House and Senate Appropriations Committees not later than 30 days after the enactment of this Act on the initiatives the Department is implementing to reform how the military prevents, responds to, and adjudicates sexual assault cases, as well as the efforts underway to develop robust research, evaluation, and analytics to assess the effectiveness of its prevention efforts.

The Committee fully funds the budget request of \$259,222,000 for Sexual Assault Prevention and Response programs at the Service level and provides an additional \$35,000,000 for the Department of Defense Sexual Assault Prevention and Response Program Office for transfer to the Services, including the National Guard and reserve components.

## SUICIDE PREVENTION AND OUTREACH

The Committee is concerned by the number of suicides among servicemembers. The Committee recognizes that programs like the National Guard Bureau's national counseling and suicide prevention peer-to-peer outreach programs are vital to reducing the number of suicides among guardsmen. The Committee encourages the Chief of the National Guard Bureau to continue supporting such programs.

## BASIC ALLOWANCE FOR HOUSING

The Committee recognizes the importance of Basic Allowance for Housing (BAH) for servicemembers seeking to secure housing in the local economy and for veteran students receiving BAH through the Post 9/11 GI Bill. As housing and rental markets near duty stations continue to fluctuate, the Committee notes the importance of acquiring up-to-date data and stakeholder input in assessing BAH rates. The Committee encourages the Secretary of Defense to prioritize active duty servicemember survey data and input in making BAH determinations.

## MID-CAREER RETENTION OF FEMALES IN THE MILITARY

The Committee is concerned by reports that the attrition level of females in the military is higher than for males at various mid-career points. The Committee urges the Secretary of Defense to develop and adopt a survey for servicemembers as they leave the military to assess the underlying reasons for mid-career attrition.

## MILITARY PERSONNEL, ARMY

Fiscal year 2019 appropriation .....	\$42,690,042,000
Fiscal year 2020 budget request .....	43,347,472,000
Committee recommendation .....	42,314,762,000
Change from budget request .....	-1,032,710,000

The Committee recommends an appropriation of \$42,314,762,000 for Military Personnel, Army which will provide the following program in fiscal year 2020:

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
50 MILITARY PERSONNEL, ARMY			
100 ACTIVITY 1: PAY AND ALLOWANCES OF OFFICERS			
150 BASIC PAY.....	7,521,813	7,521,813	---
200 RETIRED PAY ACCRUAL.....	2,327,136	2,327,136	---
220 THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS.....	75,832	75,832	---
250 BASIC ALLOWANCE FOR HOUSING.....	2,173,982	2,173,982	---
300 BASIC ALLOWANCE FOR SUBSISTENCE.....	289,916	289,916	---
350 INCENTIVE PAYS.....	94,521	94,521	---
400 SPECIAL PAYS.....	357,377	357,377	---
450 ALLOWANCES.....	198,232	198,232	---
500 SEPARATION PAY.....	56,700	56,700	---
550 SOCIAL SECURITY TAX.....	574,217	574,217	---
600 TOTAL, BUDGET ACTIVITY 1.....	13,669,726	13,669,726	---
650 ACTIVITY 2: PAY AND ALLOWANCES OF ENLISTED PERSONNEL			
700 BASIC PAY.....	13,774,829	13,774,829	---
750 RETIRED PAY ACCRUAL.....	4,264,203	4,264,203	---
770 THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS.....	96,028	96,028	---
800 BASIC ALLOWANCE FOR HOUSING.....	4,684,587	4,684,587	---
850 INCENTIVE PAYS.....	88,082	88,082	---
900 SPECIAL PAYS.....	1,115,638	1,115,638	---
950 ALLOWANCES.....	731,968	731,968	---
1000 SEPARATION PAY.....	266,807	266,807	---
1050 SOCIAL SECURITY TAX.....	1,053,774	1,053,774	---
1100 TOTAL, BUDGET ACTIVITY 2.....	26,075,916	26,075,916	---
1150 ACTIVITY 3: PAY AND ALLOWANCES OF CADETS			
1200 ACADEMY CADETS.....	90,098	90,098	---
1250 ACTIVITY 4: SUBSISTENCE OF ENLISTED PERSONNEL			
1300 BASIC ALLOWANCE FOR SUBSISTENCE.....	1,234,543	1,234,543	---
1350 SUBSISTENCE-IN-KIND.....	661,633	661,633	---
1400 FAMILY SUBSISTENCE SUPPLEMENTAL ALLOWANCE.....	50	50	---
1450 TOTAL, BUDGET ACTIVITY 4.....	1,896,226	1,896,226	---

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
1500 ACTIVITY 5: PERMANENT CHANGE OF STATION			
1550 ACCESSION TRAVEL.....	139,802	139,802	---
1600 TRAINING TRAVEL.....	141,782	141,782	---
1650 OPERATIONAL TRAVEL .....	433,985	433,985	---
1700 ROTATIONAL TRAVEL .....	669,799	669,799	---
1750 SEPARATION TRAVEL.....	214,770	214,770	---
1800 TRAVEL OF ORGANIZED UNITS.....	1,812	1,812	---
1850 NON-TEMPORARY STORAGE.....	698	698	---
1900 TEMPORARY LODGING EXPENSE.....	60,824	60,824	---
1950 TOTAL, BUDGET ACTIVITY 5.....	1,663,472	1,663,472	---
2000 ACTIVITY 6: OTHER MILITARY PERSONNEL COSTS			
2050 APPREHENSION OF MILITARY DESERTERS.....	234	234	---
2100 INTEREST ON UNIFORMED SERVICES SAVINGS.....	128	128	---
2150 DEATH GRATUITIES.....	42,600	42,600	---
2200 UNEMPLOYMENT BENEFITS.....	68,731	68,731	---
2250 EDUCATION BENEFITS.....	6,006	6,006	---
2300 ADOPTION EXPENSES.....	496	496	---
2350 TRANSPORTATION SUBSIDY.....	11,623	11,623	---
2400 PARTIAL DISLOCATION ALLOWANCE.....	74	74	---
2450 RESERVE OFFICERS TRAINING CORPS (ROTC).....	105,698	105,698	---
2500 JUNIOR ROTC.....	29,746	30,246	+500
2550 TOTAL, BUDGET ACTIVITY 6.....	265,336	265,836	+500
2600 LESS REIMBURSABLES.....	-313,302	-313,302	---
2650 UNDISTRIBUTED ADJUSTMENT.....	---	-1,033,210	-1,033,210
=====	=====	=====	=====
2700 TOTAL, ACTIVE FORCES, ARMY.....	43,347,472	42,314,762	-1,032,710
6300 TOTAL, TITLE I, MILITARY PERSONNEL, ARMY.....	43,347,472	42,314,762	-1,032,710
=====	=====	=====	=====
6310 TOTAL, TRICARE ACCRUAL PAYMENTS (PERMANENT, INDEFINITE AUTHORITY)(PUBLIC LAW 108-375).....	2,186,006	2,186,006	---
=====	=====	=====	=====
6350 TOTAL, MILITARY PERSONNEL, ARMY.....	45,533,478	44,500,768	-1,032,710
=====	=====	=====	=====



EXPLANATION OF PROJECT LEVEL ADJUSTMENTS  
[In thousands of dollars]

M-1	Budget Request	Committee Recommended	Change from Request
<b>BA-6: OTHER MILITARY PERSONNEL COSTS</b>			
<b>JUNIOR ROTC</b>	<b>29,746</b>	<b>30,246</b>	<b>500</b>
Program increase		500	
<b>UNDISTRIBUTED ADJUSTMENTS</b>		<b>-1,033,210</b>	<b>-1,033,210</b>
Historical unobligated balances		-406,210	
Projected overestimation of end strength		-627,000	

## END STRENGTH

The fiscal year 2020 budget request includes revised end strength levels for fiscal year 2019 for each Army military personnel account. The revision reflects an overall reduction of 27,800 in end strength from the fiscal year 2019 authorized levels for the active and the reserve components to the Army's currently projected levels. The Committee notes that the Army's failure to achieve the fiscal year 2019 authorized end strength resulted in an asset of over \$1,000,000,000 in fiscal year 2019. This is the second consecutive year that the Army's overestimation of end strength resulted in a sizeable asset in the military personnel accounts. The Committee does not believe this is efficient budgeting and is discouraged by this trend.

The Committee supports the Army's effort to grow its forces to align with the National Defense Strategy and rebuild warfighting readiness, but the Committee lacks confidence in the Army's ability to accurately forecast end strength and in the Army's subsequent budget projections. As a result, the Committee recommends funding to support an Army active force end strength of 478,000 for fiscal year 2020, which is equal to the Army's revised fiscal year 2019 end strength level. The Committee remains willing to review future reprogramming requests for the Army's military personnel accounts should the Army achieve major personnel growth.

## MILITARY PERSONNEL, NAVY

Fiscal year 2019 appropriation .....	\$30,164,481,000
Fiscal year 2020 budget request .....	31,831,199,000
Committee recommendation .....	31,679,229,000
Change from budget request .....	- 151,970,000

The Committee recommends an appropriation of \$31,679,229,000 for Military Personnel, Navy which will provide the following program in fiscal year 2020:

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
6400 MILITARY PERSONNEL, NAVY			
6450 ACTIVITY 1: PAY AND ALLOWANCES OF OFFICERS			
6500 BASIC PAY.....	4,561,662	4,561,662	---
6550 RETIRED PAY ACCRUAL.....	1,411,830	1,411,830	---
6560 THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS.....	59,653	59,653	---
6600 BASIC ALLOWANCE FOR HOUSING.....	1,599,286	1,599,286	---
6650 BASIC ALLOWANCE FOR SUBSISTENCE.....	172,715	172,715	---
6700 INCENTIVE PAYS.....	167,877	167,877	---
6750 SPECIAL PAYS.....	457,901	457,901	---
6800 ALLOWANCES.....	120,046	120,046	---
6850 SEPARATION PAY.....	43,367	43,367	---
6900 SOCIAL SECURITY TAX.....	347,668	347,668	---
6950 TOTAL, BUDGET ACTIVITY 1.....	8,942,005	8,942,005	---
7000 ACTIVITY 2: PAY AND ALLOWANCES OF ENLISTED PERSONNEL			
7050 BASIC PAY.....	10,279,881	10,279,881	---
7100 RETIRED PAY ACCRUAL.....	3,186,556	3,186,556	---
7120 THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS.....	100,891	100,891	---
7150 BASIC ALLOWANCE FOR HOUSING.....	4,785,627	4,785,627	---
7200 INCENTIVE PAYS.....	109,034	109,034	---
7250 SPECIAL PAYS.....	1,006,625	1,006,625	---
7300 ALLOWANCES.....	624,120	624,120	---
7350 SEPARATION PAY.....	84,737	84,737	---
7400 SOCIAL SECURITY TAX.....	786,411	786,411	---
7450 TOTAL, BUDGET ACTIVITY 2.....	20,963,882	20,963,882	---
7500 ACTIVITY 3: PAY AND ALLOWANCES OF MIDSHIPMEN			
7550 MIDSHIPMEN.....	85,203	85,203	---
7600 ACTIVITY 4: SUBSISTENCE OF ENLISTED PERSONNEL			
7650 BASIC ALLOWANCE FOR SUBSISTENCE.....	847,463	847,463	---
7700 SUBSISTENCE-IN-KIND.....	432,870	432,870	---
7750 FAMILY SUBSISTENCE SUPPLEMENTAL ALLOWANCE.....	5	5	---
7800 TOTAL, BUDGET ACTIVITY 4.....	1,280,338	1,280,338	---

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
7850 ACTIVITY 5: PERMANENT CHANGE OF STATION			
7900 ACCESSION TRAVEL.....	91,470	91,470	---
7950 TRAINING TRAVEL.....	102,482	102,482	---
8000 OPERATIONAL TRAVEL .....	231,305	231,305	---
8050 ROTATIONAL TRAVEL .....	280,181	280,181	---
8100 SEPARATION TRAVEL.....	113,668	113,668	---
8150 TRAVEL OF ORGANIZED UNITS.....	30,258	30,258	---
8200 NON-TEMPORARY STORAGE.....	13,695	13,695	---
8250 TEMPORARY LODGING EXPENSE.....	16,398	16,398	---
8350 TOTAL, BUDGET ACTIVITY 5.....	879,457	879,457	---
8400 ACTIVITY 6: OTHER MILITARY PERSONNEL COSTS			
8450 APPREHENSION OF MILITARY DESERTERS.....	37	37	---
8500 INTEREST ON UNIFORMED SERVICES SAVINGS.....	1,252	1,252	---
8550 DEATH GRATUITIES.....	22,100	22,100	---
8600 UNEMPLOYMENT BENEFITS.....	41,522	41,522	---
8650 EDUCATION BENEFITS.....	8,745	8,745	---
8700 ADOPTION EXPENSES.....	178	178	---
8750 TRANSPORTATION SUBSIDY.....	4,270	4,270	---
8800 PARTIAL DISLOCATION ALLOWANCE.....	34	34	---
8900 RESERVE OFFICERS TRAINING CORPS (ROTC).....	21,458	21,458	---
8950 JUNIOR ROTC.....	15,259	15,529	+270
9000 TOTAL, BUDGET ACTIVITY 6.....	114,855	115,125	+270
9050 LESS REIMBURSABLES.....	-434,541	-434,541	---
9100 UNDISTRIBUTED ADJUSTMENT.....	---	-152,240	-152,240
=====	=====	=====	=====
9200 TOTAL, ACTIVE FORCES, NAVY.....	31,831,199	31,679,229	-151,970
11000 TOTAL, TITLE I, MILITARY PERSONNEL, NAVY.....	31,831,199	31,679,229	-151,970
=====	=====	=====	=====
11010 TOTAL, TRICARE ACCRUAL PAYMENTS (PERMANENT, INDEFINITE AUTHORITY) (PUBLIC LAW 108-375).....	1,549,638	1,549,638	---
=====	=====	=====	=====
11050 TOTAL, MILITARY PERSONNEL, NAVY.....	33,380,837	33,228,867	-151,970
=====	=====	=====	=====

**EXPLANATION OF PROJECT LEVEL ADJUSTMENTS**  
 [In thousands of dollars]

<b>M-1</b>	<b>Budget Request</b>	<b>Committee Recommended</b>	<b>Change from Request</b>
<b>BA-6: OTHER MILITARY PERSONNEL COSTS</b>			
<b>JUNIOR ROTC</b>	<b>15,259</b>	<b>15,529</b>	<b>270</b>
Program increase		270	
<b>UNDISTRIBUTED ADJUSTMENT</b>		<b>-152,240</b>	<b>-152,240</b>
Historical unobligated balances		-152,240	

## CYBERSECURITY PROFESSIONALS

The Committee notes the importance of cybersecurity programs for the advancement of cybersecurity professionals in the Department of Defense. The Committee encourages the Secretary of the Navy to work with higher education institutions, including Historically Black Colleges and Universities, Hispanic Serving Institutions, and other Minority Serving Institutions, to develop programs for Navy ROTC midshipmen to prepare more students in critical cybersecurity skillsets.

## MILITARY PERSONNEL, MARINE CORPS

Fiscal year 2019 appropriation .....	\$13,779,038,000
Fiscal year 2020 budget request .....	14,175,211,000
Committee recommendation .....	14,064,751,000
Change from budget request .....	- 110,460,000

The Committee recommends an appropriation of \$14,064,751,000 for Military Personnel, Marine Corps which will provide the following program in fiscal year 2020:

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
12000 MILITARY PERSONNEL, MARINE CORPS			
12050 ACTIVITY 1: PAY AND ALLOWANCES OF OFFICERS			
12100 BASIC PAY.....	1,715,465	1,715,465	---
12150 RETIRED PAY ACCRUAL.....	530,702	530,702	---
12170 THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS.....	27,890	27,890	---
12200 BASIC ALLOWANCE FOR HOUSING.....	537,566	537,566	---
12250 BASIC ALLOWANCE FOR SUBSISTENCE.....	67,825	67,825	---
12300 INCENTIVE PAYS.....	51,099	51,099	---
12350 SPECIAL PAYS.....	4,125	4,125	---
12400 ALLOWANCES.....	50,685	50,685	---
12450 SEPARATION PAY.....	15,112	15,112	---
12500 SOCIAL SECURITY TAX.....	131,233	131,233	---
12550 TOTAL, BUDGET ACTIVITY 1.....	3,131,702	3,131,702	---
12600 ACTIVITY 2: PAY AND ALLOWANCES OF ENLISTED PERSONNEL			
12650 BASIC PAY.....	5,349,883	5,349,883	---
12700 RETIRED PAY ACCRUAL.....	1,653,002	1,653,002	---
12720 THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS.....	113,526	113,526	---
12750 BASIC ALLOWANCE FOR HOUSING.....	1,599,187	1,599,187	---
12800 INCENTIVE PAYS.....	7,937	7,937	---
12850 SPECIAL PAYS.....	204,034	204,034	---
12900 ALLOWANCES.....	315,811	315,811	---
12950 SEPARATION PAY.....	94,173	94,173	---
13000 SOCIAL SECURITY TAX.....	408,685	408,685	---
13050 TOTAL, BUDGET ACTIVITY 2.....	9,746,238	9,746,238	---
13100 ACTIVITY 4: SUBSISTENCE OF ENLISTED PERSONNEL			
13150 BASIC ALLOWANCE FOR SUBSISTENCE.....	430,434	430,434	---
13200 SUBSISTENCE-IN-KIND.....	400,978	400,978	---
13250 FAMILY SUBSISTENCE SUPPLEMENTAL ALLOWANCE.....	10	10	---
13300 TOTAL, BUDGET ACTIVITY 4.....	831,422	831,422	---

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
13350 ACTIVITY 5: PERMANENT CHANGE OF STATION			
13400 ACCESSION TRAVEL.....	53,167	53,167	---
13450 TRAINING TRAVEL.....	18,363	18,363	---
13500 OPERATIONAL TRAVEL .....	167,868	167,868	---
13550 ROTATIONAL TRAVEL .....	111,200	111,200	---
13600 SEPARATION TRAVEL.....	77,577	77,577	---
13650 TRAVEL OF ORGANIZED UNITS.....	682	682	---
13700 NON-TEMPORARY STORAGE.....	10,505	10,505	---
13750 TEMPORARY LODGING EXPENSE.....	4,345	4,345	---
13850 TOTAL, BUDGET ACTIVITY 5.....	443,707	443,707	---
13900 ACTIVITY 6: OTHER MILITARY PERSONNEL COSTS			
13950 APPREHENSION OF MILITARY DESERTERS.....	273	273	---
14000 INTEREST ON UNIFORMED SERVICES SAVINGS.....	19	19	---
14050 DEATH GRATUITIES.....	13,100	13,100	---
14100 UNEMPLOYMENT BENEFITS.....	26,734	26,734	---
14150 EDUCATION BENEFITS.....	3,611	3,611	---
14200 ADOPTION EXPENSES.....	100	100	---
14250 TRANSPORTATION SUBSIDY.....	1,487	1,487	---
14300 PARTIAL DISLOCATION ALLOWANCE.....	108	108	---
14350 SGLI EXTRA HAZARD PAYMENTS.....	2,075	2,075	---
14400 JUNIOR ROTC.....	3,866	3,936	+70
14450 TOTAL, BUDGET ACTIVITY 6.....	51,373	51,443	+70
14500 LESS REIMBURSABLES.....	-29,231	-29,231	---
14600 UNDISTRIBUTED ADJUSTMENT.....	---	-110,530	-110,530
=====			
14650 TOTAL, ACTIVE FORCES, MARINE CORPS.....	14,175,211	14,064,751	-110,460
16000 TOTAL, TITLE I, MILITARY PERSONNEL, MARINE CORPS....	14,175,211	14,064,751	-110,460
=====			
16010 TOTAL, TRICARE ACCRUAL PAYMENTS (PERMANENT, INDEFINITE AUTHORITY) (PUBLIC LAW 108-375).....	859,667	859,667	---
=====			
16050 TOTAL, MILITARY PERSONNEL, MARINE CORPS.....	15,034,878	14,924,418	-110,460
=====			



**EXPLANATION OF PROJECT LEVEL ADJUSTMENTS**  
 [In thousands of dollars]

<b>M-1</b>	<b>Budget Request</b>	<b>Committee Recommended</b>	<b>Change from Request</b>
<b>BA-6: OTHER MILITARY PERSONNEL COSTS</b>			
<b>JUNIOR ROTC</b>	<b>3,866</b>	<b>3,936</b>	<b>70</b>
Program increase		70	
<b>UNDISTRIBUTED ADJUSTMENT</b>		<b>-110,530</b>	<b>-110,530</b>
Historical unobligated balances		-110,530	

## MILITARY PERSONNEL, AIR FORCE

Fiscal year 2019 appropriation .....	\$30,074,691,000
Fiscal year 2020 budget request .....	31,284,959,000
Committee recommendation .....	31,082,769,000
Change from budget request .....	– 202,190,000

The Committee recommends an appropriation of \$31,082,769,000 for Military Personnel, Air Force which will provide the following program in fiscal year 2020:

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
17000 MILITARY PERSONNEL, AIR FORCE			
17050 ACTIVITY 1: PAY AND ALLOWANCES OF OFFICERS			
17100 BASIC PAY.....	5,419,404	5,419,404	---
17150 RETIRED PAY ACCRUAL.....	1,666,501	1,666,501	---
17170 THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS.....	68,361	68,361	---
17200 BASIC ALLOWANCE FOR HOUSING.....	1,630,177	1,630,177	---
17250 BASIC ALLOWANCE FOR SUBSISTENCE.....	204,432	204,432	---
17300 INCENTIVE PAYS.....	349,589	349,589	---
17350 SPECIAL PAYS.....	337,986	337,986	---
17400 ALLOWANCES.....	119,612	119,612	---
17450 SEPARATION PAY .....	43,588	43,588	---
17500 SOCIAL SECURITY TAX.....	413,905	413,905	---
17550 TOTAL, BUDGET ACTIVITY 1.....	10,253,555	10,253,555	---
17600 ACTIVITY 2: PAY AND ALLOWANCES OF ENLISTED PERSONNEL			
17650 BASIC PAY.....	9,912,417	9,912,417	---
17700 RETIRED PAY ACCRUAL.....	3,061,954	3,061,954	---
17720 THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS.....	77,645	77,645	---
17750 BASIC ALLOWANCE FOR HOUSING.....	4,017,647	4,017,647	---
17800 INCENTIVE PAYS.....	61,239	61,239	---
17850 SPECIAL PAYS.....	337,702	337,702	---
17900 ALLOWANCES.....	630,858	630,858	---
17950 SEPARATION PAY.....	136,265	136,265	---
18000 SOCIAL SECURITY TAX .....	758,300	758,300	---
18050 TOTAL, BUDGET ACTIVITY 2.....	18,994,027	18,994,027	---
18100 ACTIVITY 3: PAY AND ALLOWANCES OF CADETS			
18150 ACADEMY CADETS.....	80,959	80,959	---
18200 ACTIVITY 4: SUBSISTENCE OF ENLISTED PERSONNEL			
18250 BASIC ALLOWANCE FOR SUBSISTENCE.....	1,047,572	1,047,572	---
18300 SUBSISTENCE-IN-KIND.....	159,138	159,138	---
18350 FAMILY SUBSISTENCE SUPPLEMENTAL ALLOWANCE.....	3	3	---
18400 TOTAL, BUDGET ACTIVITY 4.....	1,206,713	1,206,713	---

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
18450 ACTIVITY 5: PERMANENT CHANGE OF STATION			
18500 ACCESSION TRAVEL.....	102,944	102,944	---
18550 TRAINING TRAVEL.....	59,189	59,189	---
18600 OPERATIONAL TRAVEL .....	284,731	284,731	---
18650 ROTATIONAL TRAVEL .....	453,527	453,527	---
18700 SEPARATION TRAVEL.....	162,547	162,547	---
18750 TRAVEL OF ORGANIZED UNITS.....	4,347	4,347	---
18800 NON-TEMPORARY STORAGE.....	26,215	26,215	---
18850 TEMPORARY LODGING EXPENSE.....	33,162	33,162	---
18950 TOTAL, BUDGET ACTIVITY 5.....	1,126,662	1,126,662	---
19000 ACTIVITY 6: OTHER MILITARY PERSONNEL COSTS			
19050 APPREHENSION OF MILITARY DESERTERS.....	12	12	---
19100 INTEREST ON UNIFORMED SERVICES SAVINGS.....	2,299	2,299	---
19150 DEATH GRATUITIES.....	15,000	15,000	---
19200 UNEMPLOYMENT BENEFITS.....	22,571	22,571	---
19300 EDUCATION BENEFITS.....	28	28	---
19350 ADOPTION EXPENSES.....	395	395	---
19400 TRANSPORTATION SUBSIDY.....	2,718	2,718	---
19450 PARTIAL DISLOCATION ALLOWANCE.....	492	492	---
19550 RESERVE OFFICERS TRAINING CORPS (ROTC).....	46,429	46,429	---
19600 JUNIOR ROTC.....	20,439	20,819	+380
19650 TOTAL, BUDGET ACTIVITY 6.....	110,383	110,763	+380
19700 LESS REIMBURSABLES.....	-487,340	-487,340	---
19750 UNDISTRIBUTED ADJUSTMENT.....	---	-202,570	-202,570
=====			
19800 TOTAL, ACTIVE FORCES, AIR FORCE.....	31,284,959	31,082,769	-202,190
21000 TOTAL, TITLE I, MILITARY PERSONNEL, AIR FORCE.....	31,284,959	31,082,769	-202,190
=====			
21010 TOTAL, TRICARE ACCRUAL PAYMENTS (PERMANENT, INDEFINITE AUTHORITY) (PUBLIC LAW 108-375).....	1,514,694	1,514,694	---
=====			
21050 TOTAL, MILITARY PERSONNEL, AIR FORCE.....	32,799,653	32,597,463	-202,190
=====			

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS  
[In thousands of dollars]

M-1	Budget Request	Committee Recommended	Change from Request
BA-6: OTHER MILITARY PERSONNEL COSTS			
JUNIOR ROTC	20,439	20,819	380
Program increase		380	
UNDISTRIBUTED ADJUSTMENT		-202,570	-202,570
Historical unobligated balances		-202,570	

## RESERVE PERSONNEL, ARMY

Fiscal year 2019 appropriation .....	\$4,836,947,000
Fiscal year 2020 budget request .....	4,964,671,000
Committee recommendation .....	4,847,321,000
Change from budget request .....	– 117,350,000

The Committee recommends an appropriation of \$4,847,321,000 for Reserve Personnel, Army which will provide the following program in fiscal year 2020:

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
23000 RESERVE PERSONNEL, ARMY			
23050 ACTIVITY 1: RESERVE COMPONENT TRAINING AND SUPPORT			
23100 PAY GROUP A TRAINING (15 DAYS & DRILLS 24/48).....	1,591,993	1,591,993	---
23150 PAY GROUP B TRAINING (BACKFILL FOR ACTIVE DUTY).....	45,748	45,748	---
23200 PAY GROUP F TRAINING (RECRUITS).....	201,613	201,613	---
23250 PAY GROUP P TRAINING (PIPELINE RECRUITS).....	6,717	6,717	---
23300 MOBILIZATION TRAINING .....	2,373	2,373	---
23350 SCHOOL TRAINING.....	240,785	240,785	---
23400 SPECIAL TRAINING.....	382,398	382,398	---
23450 ADMINISTRATION AND SUPPORT.....	2,358,782	2,358,782	---
23470 THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS.....	11,205	11,205	---
23500 EDUCATION BENEFITS.....	22,714	22,714	---
23550 HEALTH PROFESSION SCHOLARSHIP .....	61,392	61,392	---
23600 OTHER PROGRAMS .....	38,951	38,951	---
23650 TOTAL, BUDGET ACTIVITY 1.....	4,964,671	4,964,671	---
23800 UNDISTRIBUTED ADJUSTMENT.....	---	-117,350	-117,350
24000 TOTAL, TITLE I, RESERVE PERSONNEL, ARMY.....	4,964,671	4,847,321	-117,350
24010 TOTAL, TRICARE ACCRUAL PAYMENTS (PERMANENT, INDEFINITE AUTHORITY) (PUBLIC LAW 108-375).....	394,612	394,612	---
24050 TOTAL, RESERVE PERSONNEL, ARMY.....	5,359,283	5,241,933	-117,350

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS  
[In thousands of dollars]

M-1	Budget Request	Committee Recommended	Change from Request
UNDISTRIBUTED ADJUSTMENT		-117,350	-117,350
Historical unobligated balances		-117,350	



## RESERVE PERSONNEL, NAVY

Fiscal year 2019 appropriation .....	\$2,049,021,000
Fiscal year 2020 budget request .....	2,123,947,000
Committee recommendation .....	2,113,357,000
Change from budget request .....	- 10,590,000

The Committee recommends an appropriation of \$2,113,357,000 for Reserve Personnel, Navy which will provide the following program in fiscal year 2020:

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
26000 RESERVE PERSONNEL, NAVY			
26050 ACTIVITY 1: RESERVE COMPONENT TRAINING AND SUPPORT			
26100 PAY GROUP A TRAINING (15 DAYS & DRILLS 24/48).....	712,650	712,650	---
26150 PAY GROUP B TRAINING (BACKFILL FOR ACTIVE DUTY).....	7,839	7,839	---
26200 PAY GROUP F TRAINING (RECRUITS).....	54,101	54,101	---
26250 MOBILIZATION TRAINING.....	12,537	12,537	---
26300 SCHOOL TRAINING.....	56,593	56,593	---
26350 SPECIAL TRAINING.....	124,738	124,738	---
26400 ADMINISTRATION AND SUPPORT.....	1,091,583	1,091,583	---
26420 THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS.....	6,326	6,326	---
26450 EDUCATION BENEFITS.....	1,116	1,116	---
26500 HEALTH PROFESSION SCHOLARSHIP.....	56,464	56,464	---
26550 TOTAL, BUDGET ACTIVITY 1.....	2,123,947	2,123,947	---
26600 UNDISTRIBUTED ADJUSTMENT.....	---	-10,590	-10,590
27000 TOTAL, TITLE I, RESERVE PERSONNEL, NAVY.....	2,123,947	2,113,357	-10,590
27010 TOTAL, TRICARE ACCRUAL PAYMENTS (PERMANENT, INDEFINITE AUTHORITY) (PUBLIC LAW 108-375).....	136,926	136,926	---
27050 TOTAL, RESERVE PERSONNEL, NAVY.....	2,260,873	2,250,283	-10,590

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS  
[In thousands of dollars]

M-1	Budget Request	Committee Recommended	Change from Request
UNDISTRIBUTED ADJUSTMENT		-10,590	-10,590
Historical unobligated balances		-10,590	

## RESERVE PERSONNEL, MARINE CORPS

Fiscal year 2019 appropriation .....	\$782,390,000
Fiscal year 2020 budget request .....	838,854,000
Committee recommendation .....	829,124,000
Change from budget request .....	−9,730,000

The Committee recommends an appropriation of \$829,124,000 for Reserve Personnel, Marine Corps which will provide the following program in fiscal year 2020:

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
28000 RESERVE PERSONNEL, MARINE CORPS			
28050 ACTIVITY 1: RESERVE COMPONENT TRAINING AND SUPPORT			
28100 PAY GROUP A TRAINING (15 DAYS & DRILLS 24/48).....	290,938	290,938	---
28150 PAY GROUP B TRAINING (BACKFILL FOR ACT DUTY).....	46,716	46,716	---
28200 PAY GROUP F TRAINING (RECRUITS).....	139,238	139,238	---
28300 MOBILIZATION TRAINING.....	1,422	1,422	---
28350 SCHOOL TRAINING.....	24,532	24,532	---
28400 SPECIAL TRAINING.....	53,388	53,388	---
28450 ADMINISTRATION AND SUPPORT.....	264,360	264,360	---
28470 THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS.....	3,759	3,759	---
28500 PLATOON LEADER CLASS.....	8,283	8,283	---
28550 EDUCATION BENEFITS.....	6,218	6,218	---
28600 TOTAL, BUDGET ACTIVITY 1.....	838,854	838,854	---
28700 UNDISTRIBUTED ADJUSTMENT.....	---	-9,730	-9,730
29000 TOTAL, TITLE I, RESERVE PERSONNEL, MARINE CORPS.....	838,854	829,124	-9,730
29010 TOTAL, TRICARE ACCRUAL PAYMENTS (PERMANENT, INDEFINITE AUTHORITY) (PUBLIC LAW 108-375).....	77,427	77,427	---
29050 TOTAL, RESERVE PERSONNEL, MARINE CORPS.....	916,281	906,551	-9,730

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS  
[In thousands of dollars]

M-1	Budget Request	Committee Recommended	Change from Request
UNDISTRIBUTED ADJUSTMENT		-9,730	-9,730
Historical unobligated balances		-9,730	

## RESERVE PERSONNEL, AIR FORCE

Fiscal year 2019 appropriation .....	\$1,860,406,000
Fiscal year 2020 budget request .....	2,038,040,000
Committee recommendation .....	1,993,280,000
Change from budget request .....	-44,760,000

The Committee recommends an appropriation of \$1,993,280,000 for Reserve Personnel, Air Force which will provide the following program in fiscal year 2020:

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
30000 RESERVE PERSONNEL, AIR FORCE			
30050 ACTIVITY 1: RESERVE COMPONENT TRAINING AND SUPPORT			
30100 PAY GROUP A TRAINING (15 DAYS & DRILLS 24/48).....	722,193	722,193	---
30150 PAY GROUP B TRAINING (BACKFILL FOR ACTIVE DUTY).....	102,802	102,802	---
30200 PAY GROUP F TRAINING (RECRUITS).....	54,454	54,454	---
30250 PAY GROUP P TRAINING (PIPELINE RECRUITS).....	2,669	2,669	---
30300 MOBILIZATION TRAINING.....	760	760	---
30350 SCHOOL TRAINING.....	169,565	169,565	---
30400 SPECIAL TRAINING.....	329,355	329,355	---
30450 ADMINISTRATION AND SUPPORT.....	570,532	570,532	---
30470 THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS.....	3,390	3,390	---
30500 EDUCATION BENEFITS.....	15,395	15,395	---
30550 HEALTH PROFESSION SCHOLARSHIP.....	64,474	64,474	---
30600 OTHER PROGRAMS (ADMIN & SUPPORT).....	2,451	2,451	---
30650 TOTAL, BUDGET ACTIVITY 1.....	2,038,040	2,038,040	---
30750 UNDISTRIBUTED ADJUSTMENT.....	---	-44,760	-44,760
31000 TOTAL, TITLE I, RESERVE PERSONNEL, AIR FORCE.....	2,038,040	1,993,280	-44,760
31010 TOTAL, TRICARE ACCRUAL PAYMENTS (PERMANENT, INDEFINITE AUTHORITY) (PUBLIC LAW 108-375).....	139,697	139,697	---
31050 TOTAL, RESERVE PERSONNEL, AIR FORCE.....	2,177,737	2,132,977	-44,760



EXPLANATION OF PROJECT LEVEL ADJUSTMENTS  
[In thousands of dollars]

M-1	Budget Request	Committee Recommended	Change from Request
UNDISTRIBUTED ADJUSTMENT		-44,760	-44,760
Historical unobligated balances		-44,760	

## NATIONAL GUARD PERSONNEL, ARMY

Fiscal year 2019 appropriation .....	\$8,600,945,000
Fiscal year 2020 budget request .....	8,808,305,000
Committee recommendation .....	8,664,535,000
Change from budget request .....	− 143,770,000

The Committee recommends an appropriation of \$8,664,535,000 for National Guard Personnel, Army which will provide the following program in fiscal year 2020:

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
32000 NATIONAL GUARD PERSONNEL, ARMY			
32050 ACTIVITY 1: RESERVE COMPONENT TRAINING AND SUPPORT			
32100 PAY GROUP A TRAINING (15 DAYS & DRILLS 24/48).....	2,607,324	2,607,324	---
32150 PAY GROUP F TRAINING (RECRUITS).....	539,742	539,742	---
32200 PAY GROUP P TRAINING (PIPELINE RECRUITS).....	44,401	44,401	---
32250 SCHOOL TRAINING.....	529,639	529,639	---
32300 SPECIAL TRAINING.....	813,283	827,903	+14,620
32350 ADMINISTRATION AND SUPPORT.....	4,182,249	4,182,249	---
32370 THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS.....	19,194	19,194	---
32400 EDUCATION BENEFITS.....	72,473	72,473	---
32450 TOTAL, BUDGET ACTIVITY 1.....	8,808,305	8,822,925	+14,620
32600 UNDISTRIBUTED ADJUSTMENT.....	---	-159,590	-159,590
32610 TRAUMA TRAINING.....	---	1,200	+1,200
33000 TOTAL, TITLE I, NATIONAL GUARD PERSONNEL, ARMY.....	8,808,305	8,664,535	-143,770
33010 TOTAL, TRICARE ACCRUAL PAYMENTS (PERMANENT, INDEFINITE AUTHORITY) (PUBLIC LAW 108-375).....	703,636	703,636	---
33050 TOTAL, NATIONAL GUARD PERSONNEL, ARMY.....	9,511,941	9,368,171	-143,770

**EXPLANATION OF PROJECT LEVEL ADJUSTMENTS**  
 [In thousands of dollars]

<b>M-1</b>	<b>Budget Request</b>	<b>Committee Recommended</b>	<b>Change from Request</b>
<b>BA-1: RESERVE COMPONENT TRAINING AND SUPPORT</b>			
<b>SPECIAL TRAINING</b>	<b>813,283</b>	<b>827,903</b>	<b>14,620</b>
Program increase - State Partnership Program		1,620	
Program increase - Cyber Mission Assurance Teams		2,000	
Program increase - critical cybersecurity skillsets		1,000	
Program increase - Northern Strike		10,000	
<b>UNDISTRIBUTED ADJUSTMENT</b>		<b>-159,590</b>	<b>-159,590</b>
Historical unobligated balances		-159,590	
<b>TRAUMA TRAINING</b>		<b>1,200</b>	<b>1,200</b>

## NATIONAL GUARD PERSONNEL, AIR FORCE

Fiscal year 2019 appropriation .....	\$3,699,080,000
Fiscal year 2020 budget request .....	4,063,845,000
Committee recommendation .....	4,032,521,000
Change from budget request .....	- 31,324,000

The Committee recommends an appropriation of \$4,032,521,000 for National Guard Personnel, Air Force which will provide the following program in fiscal year 2020:

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
34000 NATIONAL GUARD PERSONNEL, AIR FORCE			
34050 ACTIVITY 1: RESERVE COMPONENT TRAINING AND SUPPORT			
34100 PAY GROUP A TRAINING (15 DAYS & DRILLS 24/48).....	935,299	935,299	---
34150 PAY GROUP F TRAINING (RECRUITS).....	81,644	81,644	---
34200 PAY GROUP P TRAINING (PIPELINE RECRUITS).....	7,969	7,969	---
34250 SCHOOL TRAINING.....	357,890	357,890	---
34300 SPECIAL TRAINING.....	218,104	218,680	+576
34350 ADMINISTRATION AND SUPPORT.....	2,438,963	2,438,963	---
34370 THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS.....	10,083	10,083	---
34400 EDUCATION BENEFITS.....	13,893	13,893	---
34450 TOTAL, BUDGET ACTIVITY 1.....	4,063,845	4,064,421	+576
34700 UNDISTRIBUTED ADJUSTMENT.....	---	-33,700	-33,700
34720 TRAUMA TRAINING.....	---	1,800	+1,800
35000 TOTAL, TITLE I, NATIONAL GUARD PERSONNEL, AIR FORCE.	4,063,845	4,032,521	-31,324
35010 TOTAL, TRICARE ACCRUAL PAYMENTS (PERMANENT, INDEFINITE AUTHORITY) (PUBLIC LAW 108-375).....	254,512	254,512	---
35050 TOTAL, NATIONAL GUARD PERSONNEL, AIR FORCE.....	4,318,357	4,287,033	-31,324

**EXPLANATION OF PROJECT LEVEL ADJUSTMENTS**  
 [In thousands of dollars]

<b>M-1</b>	<b>Budget Request</b>	<b>Committee Recommended</b>	<b>Change from Request</b>
<b>BA-1: RESERVE COMPONENT TRAINING AND SUPPORT</b>			
<b>SPECIAL TRAINING</b>	<b>218,104</b>	<b>218,680</b>	<b>576</b>
Program increase - State Partnership Program		576	
<b>UNDISTRIBUTED ADJUSTMENT</b>		<b>-33,700</b>	<b>-33,700</b>
Historical unobligated balances		-33,700	
<b>TRAUMA TRAINING</b>		<b>1,800</b>	<b>1,800</b>





## TITLE II

### OPERATION AND MAINTENANCE

The fiscal year 2020 Department of Defense operation and maintenance budget request totals \$123,944,614,000. The Committee recommendation provides \$206,691,018,000 for the operation and maintenance accounts. The table below summarizes the Committee recommendations:

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
-----			
RECAPITULATION			
OPERATION & MAINTENANCE, ARMY.....	22,797,873	41,449,293	+18,651,420
OPERATION & MAINTENANCE, NAVY.....	25,952,718	51,417,389	+25,464,671
OPERATION & MAINTENANCE, MARINE CORPS.....	3,928,045	7,945,854	+4,017,809
OPERATION & MAINTENANCE, AIR FORCE.....	21,278,499	44,662,729	+23,384,230
OPERATION & MAINTENANCE, SPACE FORCE.....	72,436	15,000	-57,436
OPERATION & MAINTENANCE, DEFENSE-WIDE.....	37,399,341	37,256,022	-143,319
OPERATION & MAINTENANCE, ARMY RESERVE.....	1,080,103	3,009,594	+1,929,491
OPERATION & MAINTENANCE, NAVY RESERVE.....	261,284	1,110,116	+848,832
OPERATION & MAINTENANCE, MARINE CORPS RESERVE.....	61,090	294,076	+232,986
OPERATION & MAINTENANCE, AIR FORCE RESERVE.....	2,231,445	3,356,685	+1,125,240
OPERATION & MAINTENANCE, ARMY NATIONAL GUARD.....	3,335,755	7,448,536	+4,112,781
OPERATION & MAINTENANCE, AIR NATIONAL GUARD.....	3,612,156	6,592,589	+2,980,433
UNITED STATES COURT OF APPEALS FOR THE ARMED FORCES...	14,771	14,771	---
ENVIRONMENTAL RESTORATION, ARMY.....	207,518	235,809	+28,291
ENVIRONMENTAL RESTORATION, NAVY.....	335,932	365,883	+29,951
ENVIRONMENTAL RESTORATION, AIR FORCE.....	302,744	365,808	+63,064
ENVIRONMENTAL RESTORATION, DEFENSE-WIDE.....	9,105	19,002	+9,897
ENVIRONMENTAL RESTORATION, FORMERLY USED DEFENSE SITES	216,499	260,499	+44,000
OVERSEAS HUMANITARIAN, DISASTER, AND CIVIC AID.....	108,600	117,663	+9,063
COOPERATIVE THREAT REDUCTION ACCOUNT.....	338,700	353,700	+15,000
DOD ACQUISITION WORKFORCE DEVELOPMENT FUND.....	400,000	400,000	---
	=====	=====	=====
GRAND TOTAL, OPERATION & MAINTENANCE.....	123,944,614	206,691,018	+82,746,404
	=====	=====	=====

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 2020 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 sub-activity groups in the case of Operation and Maintenance, Defense-Wide, in excess of \$10,000,000.

In addition, the Secretary shall follow prior approval reprogramming procedures in excess of \$10,000,000 out of the following readiness sub-activity groups:

*Army:*

- Maneuver units
- Modular support brigades
- Aviation assets
- Land forces operations support
- 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
- Base operating support

*Marine Corps:*

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

*Air Force:*

- Primary combat forces
- Combat enhancement forces
- Depot maintenance
- Operating forces depot maintenance
- Facilities sustainment, restoration, and modernization
- Contractor logistics support and system support
- Flying hour program
- Base support
- Mobilization depot maintenance
- Training and recruiting depot maintenance

Administration and service-wide depot maintenance

*Air Force Reserve:*

Depot maintenance

*Air National Guard:*

Depot maintenance

Additionally, the Secretary of Defense is directed to use normal prior approval reprogramming procedures when implementing transfers in excess of \$10,000,000 into the following budget sub-activities:

*Operation and Maintenance, Army:*

Other personnel support/recruiting and advertising

*Operation and Maintenance, Army National Guard:*

Other personnel support/recruiting and advertising

#### REPROGRAMMING GUIDANCE FOR SPECIAL OPERATIONS COMMAND

The Committee directs the Secretary of Defense to submit a baseline report that shows the Special Operations Command's operation and maintenance funding by sub-activity group for the fiscal year 2020 appropriation not later than 60 days after the enactment of this Act. The Secretary of Defense is further directed to submit quarterly execution reports to the congressional defense committees not later than 45 days after the end of each fiscal quarter that addresses the rationale for the realignment of any funds within and between budget sub-activities and the movement of any base funds used to support overseas contingency operations. Finally, the Secretary of Defense is directed to notify the congressional defense committees 30 days prior to the realignment of funds in excess of \$5,000,000 between sub-activity groups.

#### 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 this report are congressional special interest items for the purpose of the Base for Reprogramming (DD Form 1414). Each of these items must be carried on the DD Form 1414 at the stated amount as specifically addressed in the Committee report. Below threshold reprogrammings may not be used to either restore or reduce funding from congressional special interest items as identified on the DD Form 1414.

#### OPERATION AND MAINTENANCE QUARTERLY UPDATES

Regular interaction with each of the Service's financial management offices enhances the ability of the Committee to perform its essential oversight responsibilities. Through these interactions, the Committee is able to gain a better understanding of the challenges each of the Services face with the obligation and execution of their programs and contracts. The Committee notes the successful quarterly meetings this year with each of the Services and directs the Director of each of the Service's Operations Divisions (Financial Management and Budget) to continue to provide quarterly briefings

to the House and Senate Appropriations Committees on their respective operation and maintenance execution rates in fiscal year 2020.

#### DEFENSE LANGUAGE PROGRAM

The Committee appreciates the continued emphasis the Department of Defense places on advanced foreign language and cultural training and recognizes its necessity for mission success and readiness. The Committee fully supports the Defense Language Institute Foreign Language Center and its efforts to ensure that necessary requirements for advanced foreign language and cultural training and materials are being met. Members of the military and intelligence communities must be able to communicate and interact directly with local populations, guides, foreign allies, and contractors to fully understand and respect their cultures. The Committee encourages the Secretary of Defense to continue efforts to improve existing capabilities and to ensure that requirements for authentic advanced foreign language training and cultural materials are being fully met.

#### RESTORING READINESS

The Committee recommendation includes additional readiness funds for each of the Services within the operation and maintenance accounts which shall only be used to improve military readiness, including providing for increased training and depot maintenance activities. None of the funding provided may be used for recruiting, marketing, or advertising programs. The additional funding is a congressional special interest item. The Committee directs the Secretary of Defense and the Service Secretaries to submit a detailed spend plan by sub-activity group to the congressional defense committees not less than 30 days prior to the obligation of these funds.

#### 90/10 RULE

For-profit colleges often target servicemembers and veterans with aggressive marketing and recruiting because of a loophole that allows for-profit colleges to exclude any federal aid and educational benefits received from sources other than the Department of Education from the cap on federally derived institutional revenue. The Committee directs the Secretary of Defense to submit a report to the congressional defense committees not later than 90 days after the enactment of this Act that provides an analysis of all for-profit institutions that would exceed the 90/10 federal funding limits if revenue from the Department of Veterans Affairs and Department of Defense were included in the 90/10 calculation the same way that Title IV of the Higher Education Act funds are included for the most recent academic year. The report shall also include a list of schools that receive between 85 percent or more of their revenue from Title IV of the Higher Education Act, the Department of Veterans Affairs, and the Department of Defense sources for the most recent academic year.

## CHILDCARE

The Committee recommendation includes additional funds for the Services to address the ongoing challenges that the lack of available childcare presents to servicemembers and their families. The Committee is concerned that in some geographical locations, the delays in providing affordable and acceptable childcare are negatively impacting the quality of life for servicemembers and their families. Given the demanding jobs that servicemembers must execute, creating unique solutions is required.

The Committee notes that each of the Services' budget requests increases funding for the sustainment, repair, and base operation budget lines. The Services should use these additional funds to make childcare development centers a priority by addressing mold remediation and other urgent repairs.

The Committee directs the Service Secretaries to submit a report to the congressional defense committees not later than 90 days after the enactment of this Act that details their plans to address the obstacles to childcare, whether it be additional childcare development centers, additional staff, or acceptable alternatives for fiscal year 2020 and the future year defense program to ensure that these challenges are expeditiously met. The report shall include associated funding requirements for each identified course of action. Further, the Committee directs that the Service Secretaries include the number of children on childcare waiting lists in their fiscal year 2021 budget justification materials.

## MILITARY FOOD TRANSFORMATION

The Committee remains concerned about the growing obesity crisis in the Department of Defense and its impact on military recruitment, readiness, and retention. The Committee is concerned that the Department's current food system may be overly complex and inefficient, which may result in higher costs per meal at dining facilities, unnecessary internal competition between on-base food service providers, and poor food service planning. Emphasis should be placed on providing nutritious food options at dining facilities and modernizing the on-base food system by using best practices from universities and industry partners.

The Committee directs the Secretary of Defense to submit a report to the congressional defense committees not later than 120 days after the enactment of this Act on ongoing food transformation efforts. The report should include details of the Department's ongoing efforts, costs associated with each effort, and an outline for a potential demonstration pilot program at multiple military installations.

The Committee also directs the Comptroller General to audit a sample size of the Services' dining facilities to determine whether the Services are accurately measuring meal card holder utilization rates, costs per meal, and all input costs such as food, operating, capital expenditures, facility sustainment, and military labor. The audit report shall be submitted to the congressional defense committees not later than 180 days after the enactment of this Act.

## VIEQUES AND CULEBRA

The Committee remains concerned with the pace and scope of environmental restoration on the island municipalities of Culebra and Vieques in Puerto Rico. The Committee encourages the Secretary of the Army and the Secretary of the Navy to work closely with the Environmental Protection Agency, the Fish and Wildlife Service, and the Puerto Rico Environmental Quality Board to maximize public participation and transparency in the decontamination process in order to achieve a thorough decontamination result on both islands.

The Committee also is concerned about public safety on the northwest peninsula of Culebra due to unexploded ordnance identified there by the Army. The Committee encourages the Secretary of the Army to exercise available authorities, including the authority clarified through the National Defense Authorization Act for Fiscal Year 2015, to decontaminate the northwest peninsula. Additionally, the Committee directs the Secretary of the Army and the Secretary of the Navy each to submit a report to the congressional defense committees not later than 90 days after the enactment of this Act detailing all respective decontamination authorities and plans applicable to Culebra and Vieques, to include particular emphasis on the decontamination of the northwest peninsula of Culebra.

The Committee also notes that there are gaps in information about types and amounts of ordnance used on Vieques and Culebra, as well as about potential links between the ordnance used and present threats to public health. The Committee directs the Secretary of the Army and the Secretary of the Navy to provide a report to the congressional defense committees not later than 60 days after the enactment of this Act on previously released information related to the ordnance on the two islands. The Committee also urges the Secretaries to publish the relevant documents on the internet in a single location and in a user-friendly format.

## PILOT SHORTAGES

The Committee supports efforts throughout the Department of Defense to address the shortage of pilots across the Services. The Committee encourages the Secretary of Defense to work with higher education institutions, including Historically Black Colleges and Universities, Hispanic Serving Institutions, and other Minority Serving Institutions, to develop programs that will prepare more students to meet the eligibility requirements for pilot training. In addition, the Committee encourages the Secretary of the Air Force to examine university-based training for Air Force ROTC cadets and civilian aviation students as pilots and sensor operators for remotely piloted aircraft.

## CIVILIAN PAY

The Committee is disappointed that the budget request did not include funding for a pay raise for civilian federal employees. Civilian federal employees most clearly represent civilian control of the military and the intelligence community, a basic principle necessary for a democratic government to thrive. The Committee sup-

ports a civilian pay increase of 3.1 percent and directs the Secretary of Defense and the Director of National Intelligence to provide an official estimated cost for a 3.1 percent increase to the House and Senate Appropriations Committees not later than July 1, 2019.

#### RECLAIMED REFRIGERANTS

Reclaiming refrigerant aids in the prevention of creating new refrigerants and ensures the safe disposal of chemicals. Considering the large number of Department of Defense facilities and the widespread use of refrigerants, the Committee urges the Under Secretary of Defense for Acquisition and Sustainment to give preference to the use of reclaimed refrigerants to service existing equipment in Department of Defense facilities.

#### MOVEMENT OF PERSONNEL EFFECTS

The Department of Defense, through the United States Transportation Command (TRANSCOM), administers approximately 500,000 military household moves and related services annually through the Defense Personal Property Program (DP3). Approximately 900 American companies meet TRANSCOM qualifications and provide moving and related services under the program.

In response to congressional inquiries about customer satisfaction issues, TRANSCOM notified the relocation industry that the program may be outsourced to a single move management entity. The Committee has concerns about such an abrupt change to this policy, and before any such transition may begin, the Committee requires a better understanding of the possible outcomes such a decision could have on the lives of military families.

The Committee directs the Comptroller General to provide the congressional defense committees, not later than 120 days after the enactment of this Act, a comprehensive study of the impact the outsourcing of management and oversight of the movement of household goods to a private entity or entities would have on servicemembers and their families, including a comprehensive cost-benefit analysis and recommendations for changes to the Department's strategy for DP3. The Committee directs the Secretary of Defense not to issue a request for proposal or obligate funds for DP3 until 90 days after the Secretary of Defense certifies that the Department has received a draft of the Government Accountability Office study and provided the GAO with a written response.

#### UNITED STATES—REPUBLIC OF KOREA MILITARY EXERCISES

The Committee recognizes that there have been recent changes to the long-established exercises scheduled between the United States and the Republic of Korea militaries. The Committee directs the Secretary of Defense to submit a report to the congressional defense committees not later than 180 days after the enactment of this Act that details the changes to the exercises between the two militaries and assesses the readiness issues that may have resulted or could still result from the modification of such exercises. This report may include a classified annex, if necessary.



## MEALS READY-TO-EAT WAR RESERVE

The Committee recommendation fully supports the fiscal year 2020 request for the Defense Logistics Agency to maintain 2,500,000 cases of meals ready-to-eat and reaffirms support for the War Reserve stock objective of 5,000,000 cases.

## REDUCING WASTE, FRAUD, AND ABUSE

The Committee is encouraged by the initial Department-wide audit efforts of the Department of Defense. However, the Committee notes that the audit revealed organizational deficiencies that could continue to hamper efforts to obtain a clean audit in the future. The Committee expects the Secretary of Defense to comply with Section 1005 of the National Defense Authorization Act for Fiscal Year 2019 and Section 1002 of the National Defense Authorization Act for Fiscal Year 2018.

## ADVERTISING

The Committee understands that, as the largest advertiser in the United States, the federal government should work to ensure fair access to its advertising contracts for small disadvantaged businesses and businesses owned by minorities and women. The Committee directs the Secretary of Defense to include with the fiscal year 2021 budget submission the total level of expenditures for fiscal years 2019 and 2020 and the requested level of funding for fiscal year 2021 for all contracts for advertising services; contracts for advertising services by women or minority owned businesses; and contracts for advertising services by socially and economically disadvantaged small businesses (as defined in section 8(a)(4) of the Small Business Act (15 U.S.C. 637(a)(4))).

## INDIAN FINANCING ACT

The Committee recommendation includes funds for activities authorized in the Indian Financing Act of 1974. The Committee directs the Secretary of Defense to obligate funds for these activities not later than 90 days after the enactment of this Act.

## NATIVE PLANT MATERIALS

The Committee encourages the Secretary of Defense to give preference to the use of locally adapted native plant materials to the extent practicable while carrying out a land management activity on land under the jurisdiction of the Department of Defense.

## SEXUAL ASSAULT AND JUVENILE JUSTICE

The Committee is concerned by reports of sexual assault and harassment among students at schools managed by the Department of Defense Education Activity. Local government officials do not have uniformly established jurisdiction when dealing with criminal offenses of juvenile members of the military community on domestic military installations. The Committee encourages the Secretary of Defense, in coordination with the Department of Justice, to explore opportunities to establish memorandums of understanding with state and local prosecutors to adjudicate juvenile

criminal cases when the alleged offenses occur within the boundaries of a military installation.

The Committee directs the Secretary of Defense to submit a report to the congressional defense committees not later than 120 days after the enactment of this Act which details efforts to establish memorandums of understanding; successes and challenges with implementation; whether additional authorities are necessary to address this problem; actions that each Department is taking to address, respond to, and prevent sexual assault cases; and each Department's strategy related to misconduct by such juveniles.

#### JOINT REGIONAL SECURITY STACKS

The Committee recognizes the ongoing efforts of the Defense Information Systems Agency (DISA) to protect sensitive government data from unauthorized access and disclosure. Deployment of DISA's Joint Regional Security Stacks is expected to improve the security, effectiveness, and efficiency of the Department of Defense Information Network. The Committee encourages the Director of DISA to assess whether a center stack architecture could improve how network traffic is delivered to components of cybersecurity tools.

#### DIGITAL ASSET MANAGEMENT SOLUTION

The Committee supports the ongoing efforts of the Defense Information Systems Agency (DISA) to modernize the Department of Defense's internal and external digital services consistent with the goals of the Department of Defense Information Network Systems Engineering and Support project. The Committee believes that cybersecurity and cloud computing present critical near-term challenges and recognizes the need to securely leverage commercial cloud service offerings. The Committee encourages the Director of DISA to develop an industry standard, interoperable, extensible digital asset management solution to improve digital service delivery for warfighters and internal department workflows.

#### CLIMATE CHANGE

The Committee notes the Department's January 2019 report, "Report on Effects of a Changing Climate to the Department of Defense," found more than two-thirds of the military's operationally critical installations are threatened by climate change. The Committee is disappointed that the report failed to provide installation-specific resilience plans or cost estimates for mitigation activities as required by Section 335 of Public Law 115–91. The Committee directs the Secretary of Defense to submit a report to the congressional defense committees not later than 60 days after the enactment of this Act which contains a list of the top ten most climate-vulnerable bases within each Service and provides a cost estimate to mitigate the risks at each of these bases.

#### OPERATION AND MAINTENANCE, ARMY

Fiscal year 2019 appropriation .....	\$40,145,482,000
Fiscal year 2020 budget request .....	22,797,873,000
Committee recommendation .....	41,449,293,000
Change from budget request .....	+18,651,420,000

The Committee recommends an appropriation of \$41,449,293,000 for Operation and Maintenance, Army which will provide the following program in fiscal year 2020:

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
OPERATION AND MAINTENANCE, ARMY			
BUDGET ACTIVITY 1: OPERATING FORCES			
10 LAND FORCES MANEUVER UNITS.....	---	1,659,222	+1,659,222
20 MODULAR SUPPORT BRIGADES.....	---	126,515	+126,515
30 ECHELONS ABOVE BRIGADES.....	---	709,356	+709,356
40 THEATER LEVEL ASSETS.....	---	881,991	+881,991
50 LAND FORCES OPERATIONS SUPPORT.....	---	1,230,477	+1,230,477
60 AVIATION ASSETS.....	---	1,282,106	+1,282,106
70 LAND FORCES READINESS FORCE READINESS OPERATIONS SUPPORT.....	408,031	3,782,315	+3,374,284
80 LAND FORCES SYSTEMS READINESS.....	417,069	422,569	+5,500
90 LAND FORCES DEPOT MAINTENANCE.....	---	1,583,327	+1,583,327
100 LAND FORCES READINESS SUPPORT BASE OPERATIONS SUPPORT.....	---	8,046,933	+8,046,933
110 FACILITIES SUSTAINMENT, RESTORATION, & MODERNIZATION....	4,326,840	4,051,340	-275,500
120 MANAGEMENT AND OPERATIONAL HEADQUARTERS.....	405,612	405,612	---
160 COMBATANT COMMAND SUPPORT US AFRICA COMMAND.....	251,511	251,511	---
170 US EUROPEAN COMMAND.....	146,358	146,358	---
180 US SOUTHERN COMMAND.....	191,840	191,840	---
190 US FORCES KOREA.....	57,603	57,603	---
200 CYBERSPACE ACTIVITIES - CYBERSPACE OPERATIONS.....	423,156	423,156	---
210 CYBER SPACE ACTIVITIES - CYBERSECURITY.....	551,185	551,185	---
TOTAL, BUDGET ACTIVITY 1.....	7,179,205	25,803,416	+18,624,211
BUDGET ACTIVITY 2: MOBILIZATION			
220 MOBILITY OPERATIONS STRATEGIC MOBILITY.....	380,577	380,577	---
230 ARMY PREPOSITIONED STOCKS.....	362,942	362,942	---
240 INDUSTRIAL PREPAREDNESS.....	4,637	4,637	---
TOTAL, BUDGET ACTIVITY 2.....	748,156	748,156	---

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
BUDGET ACTIVITY 3: TRAINING AND RECRUITING			
250 ACCESSION TRAINING OFFICER ACQUISITION.....	157,175	157,175	---
260 RECRUIT TRAINING.....	55,739	55,739	---
270 ONE STATION UNIT TRAINING.....	62,300	62,300	---
280 SENIOR RESERVE OFFICERS TRAINING CORPS.....	538,357	538,357	---
BASIC SKILL AND ADVANCED TRAINING			
290 SPECIALIZED SKILL TRAINING.....	969,813	969,813	---
300 FLIGHT TRAINING.....	1,234,049	1,209,049	-25,000
310 PROFESSIONAL DEVELOPMENT EDUCATION.....	218,338	214,673	-3,665
320 TRAINING SUPPORT.....	554,659	550,659	-4,000
RECRUITING AND OTHER TRAINING AND EDUCATION			
330 RECRUITING AND ADVERTISING.....	716,056	706,056	-10,000
340 EXAMINING.....	185,034	185,034	---
350 OFF-DUTY AND VOLUNTARY EDUCATION.....	214,275	214,275	---
360 CIVILIAN EDUCATION AND TRAINING.....	147,647	147,647	---
370 JUNIOR RESERVE OFFICERS TRAINING CORPS.....	173,812	173,812	---
TOTAL, BUDGET ACTIVITY 3.....	5,227,254	5,184,589	-42,665
BUDGET ACTIVITY 4: ADMIN & SERVICEWIDE ACTIVITIES			
LOGISTICS OPERATIONS			
390 SERVICEWIDE TRANSPORTATION.....	559,229	559,229	---
400 CENTRAL SUPPLY ACTIVITIES.....	929,944	927,944	-2,000
410 LOGISTICS SUPPORT ACTIVITIES.....	629,981	629,981	---
420 AMMUNITION MANAGEMENT.....	458,771	458,771	---

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
SERVICEWIDE SUPPORT			
430 ADMINISTRATION.....	428,768	428,768	---
440 SERVICEWIDE COMMUNICATIONS.....	1,512,736	1,512,736	---
450 MANPOWER MANAGEMENT.....	272,738	272,738	---
460 OTHER PERSONNEL SUPPORT.....	391,869	381,869	-10,000
470 OTHER SERVICE SUPPORT.....	1,901,165	1,897,580	-3,585
480 ARMY CLAIMS ACTIVITIES.....	198,765	198,765	---
490 REAL ESTATE MANAGEMENT.....	226,248	226,248	---
500 FINANCIAL MANAGEMENT AND AUDIT READINESS.....	315,489	315,489	---
510 INTERNATIONAL MILITARY HEADQUARTERS.....	427,254	427,254	---
520 MISC. SUPPORT OF OTHER NATIONS.....	43,248	43,248	---
OTHER PROGRAMS			
OTHER PROGRAMS.....	1,347,053	1,339,512	-7,541
TOTAL, BUDGET ACTIVITY 4.....	9,643,258	9,620,132	-23,126
OVERESTIMATION OF CIVILIAN FTE TARGETS.....	---	-110,000	-110,000
TRAINING FOR GAPS IN EMERGING TECHNOLOGIES.....	---	3,000	+3,000
RESTORE READINESS.....	---	300,000	+300,000
HISTORICAL UNOBLIGATION.....	---	-100,000	-100,000
TOTAL, OPERATION AND MAINTENANCE, ARMY.....	22,797,873	41,449,293	+18,651,420

**EXPLANATION OF PROJECT LEVEL ADJUSTMENTS**  
[In thousands of dollars]

O-1	Budget Request	Committee Recommended	Change from Request
<b>111 MANEUVER UNITS</b>	<b>0</b>	<b>1,659,222</b>	<b>1,659,222</b>
Transfer from title IX		1,735,922	
Unjustified growth		-76,700	
<b>112 MODULAR SUPPORT BRIGADES</b>	<b>0</b>	<b>126,515</b>	<b>126,515</b>
Transfer from title IX		127,815	
Unjustified growth		-1,300	
<b>113 ECHELONS ABOVE BRIGADES</b>	<b>0</b>	<b>709,356</b>	<b>709,356</b>
Transfer from title IX		716,356	
Unjustified growth		-7,000	
<b>114 THEATER LEVEL ASSETS</b>	<b>0</b>	<b>881,991</b>	<b>881,991</b>
Transfer from title IX		890,891	
Unjustified growth		-8,900	
<b>115 LAND FORCES OPERATIONS SUPPORT</b>	<b>0</b>	<b>1,230,477</b>	<b>1,230,477</b>
Transfer from title IX		1,232,477	
Unjustified growth		-2,000	
<b>116 AVIATION ASSETS</b>	<b>0</b>	<b>1,282,106</b>	<b>1,282,106</b>
Transfer from title IX		1,355,606	
Excess to need		-73,500	
<b>121 FORCE READINESS OPERATIONS SUPPORT</b>	<b>408,031</b>	<b>3,782,315</b>	<b>3,374,284</b>
Transfer from title IX		3,474,284	
Excess FTE request		-38,000	
Unjustified growth		-12,000	
Unjustified transfer		-75,000	
Program increase - enhanced lightweight hard armor		25,000	
<b>122 LAND FORCES SYSTEMS READINESS</b>	<b>417,069</b>	<b>422,569</b>	<b>5,500</b>
Restore Blue Force Shield decrease		5,500	
<b>123 LAND FORCES DEPOT MAINTENANCE</b>	<b>0</b>	<b>1,583,327</b>	<b>1,583,327</b>
Transfer from title IX		1,633,327	
Excess growth		-50,000	
<b>131 BASE OPERATIONS SUPPORT</b>	<b>0</b>	<b>8,046,933</b>	<b>8,046,933</b>
Transfer from title IX		8,047,933	
Unjustified growth		-45,000	
Program increase - childcare programs		44,000	
<b>132 FACILITIES SUSTAINMENT, RESTORATION, &amp; MODERNIZATION</b>	<b>4,326,840</b>	<b>4,051,340</b>	<b>-275,500</b>
Unjustified growth		-275,500	
<b>322 FLIGHT TRAINING</b>	<b>1,234,049</b>	<b>1,209,049</b>	<b>-25,000</b>
Excess growth		-25,000	

O-1	Budget Request	Committee Recommended	Change from Request
323 PROFESSIONAL DEVELOPMENT EDUCATION	218,338	214,673	-3,665
Excess growth		-3,665	
324 TRAINING SUPPORT	554,659	550,659	-4,000
Excess travel request		-4,000	
331 RECRUITING AND ADVERTISING	716,056	706,056	-10,000
Unjustified growth		-10,000	
422 CENTRAL SUPPLY ACTIVITIES	929,944	927,944	-2,000
Excess personnel		-2,000	
434 OTHER PERSONNEL SUPPORT	391,869	381,869	-10,000
Unjustified growth		-10,000	
435 OTHER SERVICE SUPPORT	1,901,165	1,897,580	-3,585
Unjustified growth in headquarters		-5,085	
Program increase - Capitol Fourth		1,500	
411 OTHER PROGRAMS	1,347,053	1,339,512	-7,541
Classified adjustment		-7,541	
TRAINING FOR GAPS IN EMERGING TECHNOLOGIES		3,000	3,000
OVERESTIMATION OF CIVILIAN FTE TARGETS		-110,000	-110,000



### OPERATION AND MAINTENANCE, NAVY

Fiscal year 2019 appropriation .....	\$48,034,826,000
Fiscal year 2020 budget request .....	25,952,718,000
Committee recommendation .....	51,417,389,000
Change from budget request .....	+25,464,671,000

The Committee recommends an appropriation of \$51,417,389,000 for Operation and Maintenance, Navy which will provide the following program in fiscal year 2020:

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
OPERATION AND MAINTENANCE, NAVY			
BUDGET ACTIVITY 1: OPERATING FORCES			
AIR OPERATIONS			
10 MISSION AND OTHER FLIGHT OPERATIONS.....	---	5,219,109	+5,219,109
20 FLEET AIR TRAINING.....	2,284,828	2,209,828	-75,000
30 AVIATION TECHNICAL DATA AND ENGINEERING SERVICES.....	---	59,299	+59,299
40 AIR OPERATIONS AND SAFETY SUPPORT.....	155,896	155,896	---
50 AIR SYSTEMS SUPPORT.....	719,107	719,107	---
60 AIRCRAFT DEPOT MAINTENANCE.....	---	1,154,181	+1,154,181
70 AIRCRAFT DEPOT OPERATIONS SUPPORT.....	60,402	59,202	-1,200
80 AVIATION LOGISTICS.....	1,241,421	1,219,421	-22,000
SHIP OPERATIONS			
90 MISSION AND OTHER SHIP OPERATIONS.....	---	3,997,262	+3,997,262
100 SHIP OPERATIONS SUPPORT AND TRAINING.....	1,031,792	1,029,792	-2,000
110 SHIP DEPOT MAINTENANCE.....	---	8,714,298	+8,714,298
120 SHIP DEPOT OPERATIONS SUPPORT.....	---	2,066,141	+2,066,141
COMBAT COMMUNICATIONS/SUPPORT			
130 COMBAT COMMUNICATIONS.....	1,378,856	1,378,856	---
150 SPACE SYSTEMS AND SURVEILLANCE.....	276,245	273,745	-2,500
160 WARFARE TACTICS.....	675,209	675,209	---
170 OPERATIONAL METEOROLOGY AND OCEANOGRAPHY.....	389,516	389,516	---
180 COMBAT SUPPORT FORCES.....	1,536,310	1,526,310	-10,000
190 EQUIPMENT MAINTENANCE.....	161,579	161,579	---
210 COMBATANT COMMANDERS CORE OPERATIONS.....	59,521	64,321	+4,800
220 COMBATANT COMMANDERS DIRECT MISSION SUPPORT.....	93,978	93,978	---
230 MILITARY INFORMATION SUPPORT OPERATIONS.....	8,641	8,641	---
240 CYBERSPACE ACTIVITIES.....	496,385	496,385	---

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
-----			
WEAPONS SUPPORT			
260 FLEET BALLISTIC MISSILE.....	1,423,339	1,423,339	---
280 WEAPONS MAINTENANCE.....	924,069	895,032	-29,037
290 OTHER WEAPON SYSTEMS SUPPORT .....	540,210	540,210	---
BASE SUPPORT			
300 ENTERPRISE INFORMATION TECHNOLOGY.....	1,131,627	1,131,627	---
310 FACILITIES SUSTAINMENT, RESTORATION & MODERNIZATION ....	3,029,634	2,901,634	-128,000
320 BASE OPERATING SUPPORT.....	---	4,427,643	+4,427,643
-----			
TOTAL, BUDGET ACTIVITY 1.....	17,618,565	42,991,561	+25,372,996
-----			
BUDGET ACTIVITY 2: MOBILIZATION			
READY RESERVE AND PREPOSITIONING FORCES			
330 SHIP PREPOSITIONING AND SURGE.....	942,902	942,902	---
340 READY RESERVE FORCE.....	352,044	352,044	---
ACTIVATIONS/INACTIVATIONS			
360 SHIP ACTIVATIONS/INACTIVATIONS.....	427,555	427,555	---
MOBILIZATION PREPAREDNESS			
370 FLEET HOSPITAL PROGRAM.....	137,597	137,597	---
390 COAST GUARD SUPPORT.....	24,604	24,604	---
-----			
TOTAL, BUDGET ACTIVITY 2.....	1,884,702	1,884,702	---

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
BUDGET ACTIVITY 3: TRAINING AND RECRUITING			
400 ACCESSION TRAINING OFFICER ACQUISITION.....	150,765	150,765	---
410 RECRUIT TRAINING.....	11,584	11,584	---
420 RESERVE OFFICERS TRAINING CORPS.....	159,133	159,133	---
BASIC SKILLS AND ADVANCED TRAINING			
430 SPECIALIZED SKILL TRAINING.....	911,316	891,316	-20,000
450 PROFESSIONAL DEVELOPMENT EDUCATION.....	185,211	185,211	---
460 TRAINING SUPPORT.....	267,224	267,224	---
RECRUITING, AND OTHER TRAINING AND EDUCATION			
470 RECRUITING AND ADVERTISING.....	209,252	204,252	-5,000
480 OFF-DUTY AND VOLUNTARY EDUCATION.....	88,902	88,902	---
490 CIVILIAN EDUCATION AND TRAINING.....	67,492	67,492	---
500 JUNIOR ROTC.....	55,164	55,164	---
TOTAL, BUDGET ACTIVITY 3.....	2,106,043	2,081,043	-25,000
BUDGET ACTIVITY 4: ADMIN & SERVICEWIDE ACTIVITIES			
SERVICEWIDE SUPPORT			
510 ADMINISTRATION.....	1,143,358	1,096,733	-46,625
530 CIVILIAN MANPOWER AND PERSONNEL MANAGEMENT.....	178,342	175,342	-3,000
540 MILITARY MANPOWER AND PERSONNEL MANAGEMENT.....	418,413	418,413	---
LOGISTICS OPERATIONS AND TECHNICAL SUPPORT			
580 SERVICEWIDE TRANSPORTATION.....	157,465	157,465	---
600 PLANNING, ENGINEERING AND DESIGN.....	485,397	485,397	---
610 ACQUISITION AND PROGRAM MANAGEMENT.....	654,137	654,137	---

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
SECURITY PROGRAMS			
650 NAVAL INVESTIGATIVE SERVICE.....	718,061	718,061	---
OTHER PROGRAMS			
OTHER PROGRAMS.....	588,235	591,535	+3,300
TOTAL, BUDGET ACTIVITY 4.....	4,343,408	4,297,083	-46,325
RESTORE READINESS.....	---	300,000	+300,000
CIVILIAN FTE.....	---	-30,000	-30,000
TRAINING FOR GAPS IN EMERGING TECHNOLOGIES.....	---	3,000	+3,000
HISTORICAL UNOBLIGATION.....	---	-110,000	-110,000
TOTAL, OPERATION AND MAINTENANCE, NAVY.....	25,952,718	51,417,389	+25,464,671

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS  
[In thousands of dollars]

O-1	Budget Request	Committee Recommended	Change from Request
<b>1A1A MISSION AND OTHER FLIGHT OPERATIONS</b>	<b>0</b>	<b>5,219,109</b>	<b>5,219,109</b>
Transfer from title IX		5,309,109	
Projected underexecution		-75,000	
Excess growth		-15,000	
<b>1A2A FLEET AIR TRAINING</b>	<b>2,284,828</b>	<b>2,209,828</b>	<b>-75,000</b>
Projected underexecution		-75,000	
<b>1A3A AVIATION TECHNICAL DATA AND ENGINEERING</b>	<b>0</b>	<b>59,299</b>	<b>59,299</b>
Transfer from title IX		59,299	
<b>1A5A AIRCRAFT DEPOT MAINTENANCE</b>	<b>0</b>	<b>1,154,181</b>	<b>1,154,181</b>
Transfer from title IX		1,154,181	
<b>1A6A AIRCRAFT DEPOT OPERATIONS SUPPORT</b>	<b>60,402</b>	<b>59,202</b>	<b>-1,200</b>
Excess increase		-1,200	
<b>1A9A AVIATION LOGISTICS</b>	<b>1,241,421</b>	<b>1,219,421</b>	<b>-22,000</b>
Projected underexecution		-22,000	
<b>1B1B MISSION AND OTHER SHIP OPERATIONS</b>	<b>0</b>	<b>3,997,262</b>	<b>3,997,262</b>
Transfer from title IX		4,097,262	
Unjustified growth		-100,000	
<b>1B2B SHIP OPERATIONS SUPPORT AND TRAINING</b>	<b>1,031,792</b>	<b>1,029,792</b>	<b>-2,000</b>
Excess civilian increase		-2,000	
<b>1B4B SHIP DEPOT MAINTENANCE</b>	<b>0</b>	<b>8,714,298</b>	<b>8,714,298</b>
Transfer from title IX		8,061,298	
Program increase - USS Boise		290,000	
Program increase - USS Hartford		306,000	
Program increase - USS Columbus		57,000	
<b>1B5B SHIP DEPOT OPERATIONS SUPPORT</b>	<b>0</b>	<b>2,066,141</b>	<b>2,066,141</b>
Transfer from title IX		2,073,641	
Insufficient justification		-7,500	
<b>1C3C SPACE SYSTEMS AND SURVEILLANCE</b>	<b>276,245</b>	<b>273,745</b>	<b>-2,500</b>
Unjustified growth		-2,500	
<b>1C6C COMBAT SUPPORT FORCES</b>	<b>1,536,310</b>	<b>1,526,310</b>	<b>-10,000</b>
Unjustified growth		-10,000	
<b>1CCH COMBATANT COMMANDERS CORE OPERATIONS</b>	<b>59,521</b>	<b>64,321</b>	<b>4,800</b>
Program increase - Asia Pacific Regional Initiative		4,800	
<b>1D4D WEAPONS MAINTENANCE</b>	<b>924,069</b>	<b>895,032</b>	<b>-29,037</b>
Insufficient justification		-29,037	

O-1	Budget Request	Committee Recommended	Change from Request
<b>BSM1 FACILITIES SUSTAINMENT, RESTORATION &amp; MODERNIZATION</b>	<b>3,029,634</b>	<b>2,901,634</b>	<b>-128,000</b>
Program increase - life safety at public shipyards		12,000	
Unjustified growth		-140,000	
<b>BSS1 BASE OPERATING SUPPORT</b>	<b>0</b>	<b>4,427,643</b>	<b>4,427,643</b>
Transfer from title IX		4,414,943	
Program increase - childcare programs		12,700	
<b>3B1K SPECIALIZED SKILL TRAINING</b>	<b>911,316</b>	<b>891,316</b>	<b>-20,000</b>
Insufficient justification		-20,000	
<b>3C1L RECRUITING AND ADVERTISING</b>	<b>209,252</b>	<b>204,252</b>	<b>-5,000</b>
Insufficient justification		-5,000	
<b>4A1M ADMINISTRATION</b>	<b>1,143,358</b>	<b>1,096,733</b>	<b>-46,625</b>
Insufficient justification - MHA transfer		-25,500	
Excess civilian growth		-14,375	
Unjustified growth		-6,750	
<b>4A3M CIVILIAN MANPOWER AND PERSONNEL</b>	<b>178,342</b>	<b>175,342</b>	<b>-3,000</b>
Excess civilian growth		-3,000	
<b>4CAP OTHER PROGRAMS</b>	<b>588,235</b>	<b>591,535</b>	<b>3,300</b>
Transfer from title IX		3,300	
<b>RESTORE READINESS</b>		<b>300,000</b>	<b>300,000</b>
<b>TRAINING FOR GAPS IN EMERGING TECHNOLOGIES</b>		<b>3,000</b>	<b>3,000</b>
<b>OVERESTIMATION OF CIVILIAN FTE TARGETS</b>		<b>-30,000</b>	<b>-30,000</b>

## SHIP DEPOT MAINTENANCE

The Committee is disappointed that the Chief of Naval Operations requested an additional \$814,000,000 on the Navy's fiscal year 2020 unfunded priority list for the Ship Depot Maintenance account. The fiscal year 2020 budget request for this activity is \$10,426,913,000, an increase of \$652,740,000 above the fiscal year 2019 enacted level of \$9,774,173,000.

The Committee is concerned by the maintenance delays that persistently occur under this account and finds these delays completely unacceptable. A Government Accountability Office study noted delays for different vessels range from 1,000 to almost 19,000 days. These delays increase the costs of repairs as ships and submarines wait for their respective slots at the various public and private shipyards. It is imperative the Navy improve its scheduling and budgeting for these activities to reduce the length of time that ships and submarines remain unable to deploy and to reduce the costs associated with lengthy delays in the maintenance process.

The Committee recommendation includes a transfer of \$653,000,000 from Shipbuilding and Conversion, Navy to Operation and Maintenance, Navy to address the urgent maintenance requirements for the USS *Boise*, the USS *Hartford*, and the USS *Columbus*. The Committee appreciates and supports the need for new attack submarines, but believes that the Navy must also address repairs of its current fleet, with these three submarines receiving priority attention. In particular, the Committee believes the USS *Boise* must receive immediate attention and resources, given that it lost its dive certification in 2017 and has been effectively out of operation for two years.

To provide more transparency and accountability, the Committee directs the Secretary of the Navy to provide with the submission of the fiscal year 2021 budget request the names and estimated costs of the ships and submarines scheduled for maintenance that correspond to the fiscal year 2021 budget request for ship depot maintenance, for both base and overseas contingency operations funding requests.

## JET NOISE

The Committee is aware of the negative effects that jet noise may have on communities near installations with airfields. The Committee directs the Secretary of the Navy to measure the level of jet noise generated by Navy aviation assets and to make that noise measurement data available to the public. The Committee also encourages the Secretary of the Navy to collaborate with the Director of the Office of Economic Adjustment to identify communities impacted by Navy aviation jet noise and to mitigate any economic impacts from noise caused by persistent and ongoing Navy aviation activities.

## SHIPYARD INFRASTRUCTURE

The Committee recognizes the critical role public shipyards play in national security and notes that public shipyards require significant maintenance and upgrades. The Navy's Shipyard Infrastructure Optimization Plan included recommendations and future year



projects that would help restore public shipyards to better serve the Navy's requirements. The Committee encourages the Secretary of the Navy to prioritize projects listed in the future years defense program that are necessary for national security requirements.

#### OPERATION AND MAINTENANCE, MARINE CORPS

Fiscal year 2019 appropriation .....	\$6,540,049,000
Fiscal year 2020 budget request .....	3,928,045,000
Committee recommendation .....	7,945,854,000
Change from budget request .....	+4,017,809,000

The Committee recommends an appropriation of \$7,945,854,000 for Operation and Maintenance, Marine Corps which will provide the following program in fiscal year 2020:

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
OPERATION AND MAINTENANCE, MARINE CORPS			
BUDGET ACTIVITY 1: OPERATING FORCES			
10 EXPEDITIONARY FORCES	---	927,224	+927,224
20 FIELD LOGISTICS	1,278,533	1,279,533	+1,000
30 DEPOT MAINTENANCE	---	232,991	+232,991
40 USMC PREPOSITIONING	---	100,396	+100,396
50 COMBAT OPERATIONS/SUPPORT	203,580	201,580	-2,000
60 BASE SUPPORT	1,115,742	1,559,034	+443,292
70 FACILITIES SUSTAINMENT, RESTORATION & MODERNIZATION	---	2,227,776	+2,227,776
TOTAL, BUDGET ACTIVITY 1	2,597,855	6,528,534	+3,930,679
BUDGET ACTIVITY 3: TRAINING AND RECRUITING			
80 ACCESSION TRAINING	21,240	21,240	---
90 RECRUIT TRAINING	1,168	1,168	---
100 OFFICER ACQUISITION	106,601	106,601	---
110 BASIC SKILLS AND ADVANCED TRAINING	49,095	49,095	---
120 SPECIALIZED SKILLS TRAINING	407,315	408,715	+1,400
130 PROFESSIONAL DEVELOPMENT EDUCATION	210,475	210,475	---
140 RECRUITING AND OTHER TRAINING EDUCATION	42,810	42,810	---
150 RECRUITING AND ADVERTISING	25,183	25,183	---
TOTAL, BUDGET ACTIVITY 3	863,887	865,287	+1,400

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
-----			
BUDGET ACTIVITY 4: ADMIN & SERVICEWIDE ACTIVITIES			
160 SERVICEWIDE SUPPORT			
SERVICEWIDE TRANSPORTATION.....	29,894	29,894	---
170 ADMINISTRATION.....	384,352	383,002	-1,350
SECURITY PROGRAMS			
SECURITY PROGRAMS.....	52,057	50,137	-1,920
-----			
TOTAL, BUDGET ACTIVITY 4.....	466,303	463,033	-3,270
RESTORE READINESS.....	---	100,000	+100,000
HISTORICAL UNOBLIGATION.....	---	-11,000	-11,000
=====			
TOTAL, OPERATION AND MAINTENANCE, MARINE CORPS.....	3,928,045	7,945,854	+4,017,809
=====			

**EXPLANATION OF PROJECT LEVEL ADJUSTMENTS**  
[In thousands of dollars]

<b>O-1</b>	<b>Budget Request</b>	<b>Committee Recommended</b>	<b>Change from Request</b>
<b>1A1A OPERATIONAL FORCES</b>	<b>0</b>	<b>927,224</b>	<b>927,224</b>
Transfer from title IX		968,224	
Unjustified growth		-40,000	
Excess civilian growth		-1,000	
<b>1A2A FIELD LOGISTICS</b>	<b>1,278,533</b>	<b>1,279,533</b>	<b>1,000</b>
Unjustified growth		-7,000	
Excess civilian growth		-2,000	
Program increase - Marine hearing enhancement and protection		10,000	
<b>1A3A DEPOT MAINTENANCE</b>	<b>0</b>	<b>232,991</b>	<b>232,991</b>
Transfer from title IX		232,991	
<b>1B1B MARITIME PREPOSITIONING</b>	<b>0</b>	<b>100,396</b>	<b>100,396</b>
Transfer from title IX		100,396	
<b>1CCY CYBERSPACE ACTIVITIES</b>	<b>203,580</b>	<b>201,580</b>	<b>-2,000</b>
Excess civilian growth		-2,000	
<b>BSM1 BASE SUPPORT</b>	<b>1,115,742</b>	<b>1,559,034</b>	<b>443,292</b>
Transfer from title IX		443,292	
<b>BSS1 BASE OPERATING SUPPORT</b>	<b>0</b>	<b>2,227,776</b>	<b>2,227,776</b>
Transfer from title IX		2,253,776	
Excess civilian growth		-6,000	
Unjustified growth		-34,000	
Program increase - childcare programs		14,000	
<b>3B4D TRAINING SUPPORT</b>	<b>407,315</b>	<b>408,715</b>	<b>1,400</b>
Excess civilian growth		-1,300	
Unjustified increase		-2,300	
Program increase - general intelligence training		5,000	
<b>4A4G ADMINISTRATION</b>	<b>384,352</b>	<b>383,002</b>	<b>-1,350</b>
Excess civilian growth		-750	
Unjustified growth		-600	
<b>4A7G SECURITY PROGRAMS</b>	<b>52,057</b>	<b>50,137</b>	<b>-1,920</b>
Classified adjustment		-1,920	
<b>RESTORE READINESS</b>		<b>100,000</b>	<b>100,000</b>
<b>HISTORICAL UNOBLIGATION</b>		<b>-11,000</b>	<b>-11,000</b>

### OPERATION AND MAINTENANCE, AIR FORCE

Fiscal year 2019 appropriation .....	\$40,379,184,000
Fiscal year 2020 budget request .....	21,278,499,000
Committee recommendation .....	44,662,729,000
Change from budget request .....	+23,384,230,000

The Committee recommends an appropriation of \$44,662,729,000 for Operation and Maintenance, Air Force which will provide the following program in fiscal year 2020:

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
OPERATION AND MAINTENANCE, AIR FORCE			
BUDGET ACTIVITY 1: OPERATING FORCES			
AIR OPERATIONS			
10 PRIMARY COMBAT FORCES.....	729,127	727,477	-1,650
20 COMBAT ENHANCEMENT FORCES.....	1,318,770	1,318,770	---
30 AIR OPERATIONS TRAINING.....	1,486,790	1,446,790	-40,000
40 DEPOT MAINTENANCE.....	---	3,299,792	+3,299,792
50 FACILITIES SUSTAINMENT, RESTORATION & MODERNIZATION ....	3,675,824	4,142,435	+466,611
50 CYBERSPACE SUSTAINMENT.....	---	221,011	+221,011
60 CONTRACTOR LOGISTICS SUPPORT AND SYSTEM SUPPORT.....	---	8,260,364	+8,260,364
70 FLYING HOUR PROGRAM.....	---	3,968,773	+3,968,773
80 BASE OPERATING SUPPORT.....	---	7,073,982	+7,073,982
COMBAT RELATED OPERATIONS			
90 GLOBAL C3I AND EARLY WARNING.....	964,553	964,553	---
100 OTHER COMBAT OPERATIONS SUPPORT PROGRAMS.....	1,032,307	1,021,161	-11,146
110 CYBERSPACE ACTIVITIES.....	670,076	667,076	-3,000
SPACE OPERATIONS			
130 LAUNCH FACILITIES.....	179,980	179,980	---
140 SPACE CONTROL SYSTEMS.....	467,990	464,390	-3,600
COCOM			
170 US NORTHCOM/NORAD.....	184,655	184,655	---
180 US STRATCOM.....	478,357	478,357	---
190 US CYBERCOM.....	323,121	323,121	---
200 US CENTCOM.....	160,989	160,989	---
210 US SOCOM.....	6,225	6,225	---
220 US TRANSCOM.....	544	544	---
220 CENTCOM CYBERSPACE SUSTAINMENT.....	2,073	2,073	---
230 USSPACECOM.....	70,588	70,588	---
OPERATING FORCES			
CLASSIFIED PROGRAMS.....	1,322,944	1,311,454	-11,490
TOTAL, BUDGET ACTIVITY 1.....	13,074,913	36,294,560	+23,219,647

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
BUDGET ACTIVITY 2: MOBILIZATION			
230 MOBILITY OPERATIONS			
AIRLIFT OPERATIONS.....	1,158,142	1,151,342	-6,800
240 MOBILIZATION PREPAREDNESS.....	138,672	130,172	-8,500
TOTAL, BUDGET ACTIVITY 2.....	1,296,814	1,281,514	-15,300
BUDGET ACTIVITY 3: TRAINING AND RECRUITING			
280 ACCESSION TRAINING			
OFFICER ACQUISITION.....	130,835	130,835	---
290 RECRUIT TRAINING.....	26,021	26,021	---
300 RESERVE OFFICER TRAINING CORPS (ROTC).....	121,391	121,391	---
330 BASIC SKILLS AND ADVANCED TRAINING			
SPECIALIZED SKILL TRAINING.....	454,539	449,539	-5,000
340 FLIGHT TRAINING.....	600,565	608,565	+8,000
350 PROFESSIONAL DEVELOPMENT EDUCATION.....	282,788	282,788	---
360 TRAINING SUPPORT.....	123,988	119,988	-4,000
380 RECRUITING, AND OTHER TRAINING AND EDUCATION			
RECRUITING AND ADVERTISING.....	167,731	162,731	-5,000
390 EXAMINING.....	4,576	4,576	---
400 OFF DUTY AND VOLUNTARY EDUCATION.....	211,911	211,911	---
410 CIVILIAN EDUCATION AND TRAINING.....	219,021	219,021	---
420 JUNIOR ROTC.....	62,092	62,092	---
TOTAL, BUDGET ACTIVITY 3.....	2,405,458	2,399,458	-6,000

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
-----			
BUDGET ACTIVITY 4: ADMIN & SERVICEWIDE ACTIVITIES			
LOGISTICS OPERATIONS			
430 LOGISTICS OPERATIONS.....	664,926	664,926	---
440 TECHNICAL SUPPORT ACTIVITIES.....	101,483	101,483	---
SERVICEWIDE ACTIVITIES			
480 ADMINISTRATION.....	892,480	892,480	---
490 SERVICEWIDE COMMUNICATIONS.....	152,532	139,032	-13,500
500 OTHER SERVICEWIDE ACTIVITIES.....	1,254,089	1,254,089	---
510 CIVIL AIR PATROL CORPORATION.....	30,070	37,233	+7,163
SUPPORT TO OTHER NATIONS			
530 INTERNATIONAL SUPPORT.....	136,110	136,110	---
SECURITY PROGRAMS			
SECURITY PROGRAMS.....	1,269,624	1,218,844	-50,780
TOTAL, BUDGET ACTIVITY 4.....	4,501,314	4,444,197	-57,117
RESTORE READINESS.....	---	300,000	+300,000
TRAINING FOR GAPS IN EMERGING TECHNOLOGIES.....	---	3,000	+3,000
HISTORICAL UNOBLIGATION.....	---	-60,000	-60,000
TOTAL, OPERATION AND MAINTENANCE, AIR FORCE.....	21,278,499	44,662,729	+23,384,230
	=====	=====	=====



EXPLANATION OF PROJECT LEVEL ADJUSTMENTS  
[In thousands of dollars]

O-1	Budget Request	Committee Recommended	Change from Request
11A PRIMARY COMBAT FORCES	729,127	727,477	-1,650
Excess travel costs		-1,650	
11D AIR OPERATIONS TRAINING	1,486,790	1,446,790	-40,000
Unjustified growth		-40,000	
11M DEPOT MAINTENANCE	0	3,299,792	3,299,792
Unjustified growth		-35,000	
Transfer from title IX		3,334,792	
11R REAL PROPERTY MAINTENANCE	3,675,824	4,142,435	466,611
Transfer from title IX		466,611	
11V CYBERSPACE SUSTAINMENT	0	221,011	221,011
Transfer from title IX		228,811	
Insufficient justification		-7,800	
11W CONTRACTOR LOGISTICS SUPPORT AND SYSTEM SUPPORT	0	8,260,364	8,260,364
Transfer from title IX		8,329,364	
Unjustified growth		-69,000	
11Y FLYING HOUR PROGRAM	0	3,968,773	3,968,773
Transfer from title IX		4,048,773	
Unjustified growth		-80,000	
11Z BASE OPERATING SUPPORT	0	7,073,982	7,073,982
Transfer from title IX		7,223,982	
Insufficient justification		-150,000	
12C OTHER COMBAT OPERATIONS SUPPORT PROGRAMS	1,032,307	1,021,161	-11,146
Insufficient justification		-5,000	
Unjustified growth		-6,146	
12D CYBERSPACE ACTIVITIES	670,076	667,076	-3,000
Insufficient justification		-3,000	
13C SPACE CONTROL SYSTEMS	467,990	464,390	-3,600
Insufficient justification		-3,600	
999 CLASSIFIED PROGRAMS	1,322,944	1,311,454	-11,490
Unjustified increase		-5,490	
Unjustified increase		-6,000	
21A AIRLIFT OPERATIONS	1,158,142	1,151,342	-6,800
Unjustified growth		-6,800	
21D MOBILIZATION PREPAREDNESS	138,672	130,172	-8,500
Unjustified growth		-8,500	

O-1	Budget Request	Committee Recommended	Change from Request
32A SPECIALIZED SKILL TRAINING	454,539	449,539	-5,000
Insufficient justification		-5,000	
32B FLIGHT TRAINING	600,565	608,565	8,000
Program increase - undergraduate pilot training		8,000	
32D TRAINING SUPPORT	123,988	119,988	-4,000
Unjustified growth		-4,000	
33A RECRUITING AND ADVERTISING	167,731	162,731	-5,000
Unjustified growth		-5,000	
42B SERVICEWIDE COMMUNICATIONS	152,532	139,032	-13,500
Insufficient justification		-13,500	
42I CIVIL AIR PATROL CORPORATION	30,070	37,233	7,163
Program increase		7,163	
44A SECURITY PROGRAMS	1,269,624	1,218,844	-50,780
Classified adjustment		-50,780	
TRAINING GAPS IN EMERGING TECHNOLOGIES		3,000	3,000
RESTORE READINESS		300,000	300,000
HISTORICAL UNOBLIGATION		-60,000	-60,000

## PILOT SHORTAGES AND TRAINING CAPACITY

The Committee remains concerned by continued pilot shortages in the Air Force. The scope of the crisis is even more pronounced when considering undergraduate pilot training throughput must grow thirty percent by fiscal year 2022 to meet stated Air Force “Grow the Force” objectives. While the Committee supports previous innovations of Air Force test programs, syllabus changes, and related funding increases, to begin to mitigate the crisis, existing training base capacity remains a limiting factor in fully addressing pilot training demands. The Committee recommendation includes an additional \$8,000,000 for the Air Force to address this critical pilot shortage.

## DEFENSE MEDIA ACTIVITY

The Committee understands that the Air Force is reviewing its media facilities and notes the importance of having a national presence for the Air Force Network’s production facilities. During the review, the Secretary of the Air Force should remain aware of each geographic region’s assets, such as beneficial weather conditions and telecommunication infrastructure. The Committee encourages the Secretary of the Air Force to inform the congressional defense committees prior to implementing any changes to the current structure.

## AIRCRAFT DAMAGE

The Committee recognizes the adverse impact that sunlight and hail can have on the readiness and service life of aircraft. Unprotected aircraft can sustain significant damage during hail storms and long-term damage because of extensive sun exposure, creating additional, yet preventable, maintenance costs. The Committee urges the Secretary of the Air Force to prioritize maintenance projects that may provide protection for aircraft to prevent damage caused by weather.

## OPERATION AND MAINTENANCE, SPACE FORCE

Fiscal year 2019 appropriation .....	\$— — —
Fiscal year 2020 budget request .....	72,436,000
Committee recommendation .....	15,000,000
Change from budget request .....	— 57,436,000

The Committee recommends an appropriation of \$15,000,000 for Operation and Maintenance, Space Force which will provide the following program in fiscal year 2020:

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
-----			
OPERATION AND MAINTENANCE, SPACE FORCE			
BUDGET ACTIVITY 1: OPERATING FORCES			
AIR OPERATIONS			
270 BASE SUPPORT.....	72,436	15,000	-57,436
-----			
TOTAL, BUDGET ACTIVITY 1.....	72,436	15,000	-57,436
=====			
TOTAL, OPERATION AND MAINTENANCE, SPACE FORCE.....	72,436	15,000	-57,436
=====			

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS  
[In thousands of dollars]

O-1		Budget Request	Committee Recommended	Change from Request
11Z	BASE SUPPORT	72,436	15,000	-57,436
	Insufficient justification		-57,436	

# OPERATION AND MAINTENANCE, DEFENSE-WIDE

Fiscal year 2019 appropriation .....	\$35,613,354,000
Fiscal year 2020 budget request .....	37,399,341,000
Committee recommendation .....	37,256,022,000
Change from budget request .....	– 143,319,000

The Committee recommends an appropriation of \$37,256,022,000 for Operation and Maintenance, Defense-Wide which will provide the following program in fiscal year 2020:

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
OPERATION AND MAINTENANCE, DEFENSE-WIDE			
BUDGET ACTIVITY 1: OPERATING FORCES			
10 JOINT CHIEFS OF STAFF.....	409,542	409,542	---
20 JOINT CHIEFS OF STAFF.....	579,179	579,179	---
30 JOINT CHIEFS OF STAFF - CYBER.....	24,598	24,598	---
40 SPECIAL OPERATIONS COMMAND COMBAT DEVELOPMENT ACTIVITIES	1,075,762	1,069,762	-6,000
50 SPECIAL OPERATIONS COMMAND CYBERSPACE ACTIVITIES.....	14,409	14,409	---
60 SPECIAL OPERATIONS COMMAND INTELLIGENCE.....	501,747	490,486	-11,261
70 SPECIAL OPERATIONS COMMAND MAINTENANCE.....	559,300	544,300	-15,000
SPECIAL OPERATIONS COMMAND MANAGEMENT/OPERATIONAL HEADQUARTERS.....	177,928	177,928	---
90 SPECIAL OPERATIONS COMMAND OPERATIONAL SUPPORT.....	925,262	899,762	-25,500
100 SPECIAL OPERATIONS COMMAND THEATER FORCES.....	2,764,738	2,738,038	-26,700
TOTAL, BUDGET ACTIVITY 1.....	7,032,465	6,948,004	-84,461
BUDGET ACTIVITY 3: TRAINING AND RECRUITING			
50 DEFENSE ACQUISITION UNIVERSITY.....	180,250	180,250	---
60 JOINT CHIEFS OF STAFF RECRUITING, AND OTHER TRAINING AND EDUCATION.....	100,610	100,610	---
70 SPECIAL OPERATIONS COMMAND.....	33,967	33,967	---
TOTAL, BUDGET ACTIVITY 3.....	314,827	314,827	---
BUDGET ACTIVITY 4: ADMIN & SERVICEWIDE ACTIVITIES			
80 CIVIL MILITARY PROGRAMS.....	165,707	260,707	+95,000
100 DEFENSE CONTRACT AUDIT AGENCY.....	627,467	627,142	-325
190 DEFENSE CONTRACT AUDIT AGENCY - CYBER.....	3,362	3,362	---
110 DEFENSE CONTRACT MANAGEMENT AGENCY.....	1,438,068	1,436,632	-1,436
210 DEFENSE CONTRACT MANAGEMENT AGENCY - CYBER.....	24,391	24,391	---
120 DEFENSE HUMAN RESOURCES ACTIVITY.....	892,438	915,938	+23,500
130 DEFENSE INFORMATION SYSTEMS AGENCY.....	2,012,885	1,974,163	-38,722
240 DEFENSE INFORMATION SYSTEMS AGENCY - CYBER.....	601,223	562,788	-38,435
150 DEFENSE LEGAL SERVICES AGENCY.....	34,632	33,152	-1,480
160 DEFENSE LOGISTICS AGENCY.....	415,699	430,199	+14,500
170 DEFENSE MEDIA ACTIVITY.....	202,792	202,792	---
180 DEFENSE POW /MISSING PERSONS OFFICE.....	144,881	144,881	---
190 DEFENSE SECURITY COOPERATION AGENCY.....	696,884	623,073	-73,811

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
200 DEFENSE SECURITY SERVICE.....	889,664	889,664	---
340 DEFENSE SECURITY SERVICE - CYBER.....	9,220	9,220	---
360 DEFENSE TECHNICAL INFORMATION CENTER.....	3,000	2,000	-1,000
220 DEFENSE TECHNOLOGY SECURITY AGENCY.....	35,626	34,931	-695
230 DEFENSE THREAT REDUCTION AGENCY.....	568,133	568,133	---
400 DEFENSE THREAT REDUCTION AGENCY - CYBER.....	13,339	13,339	---
250 DEPARTMENT OF DEFENSE EDUCATION ACTIVITY.....	2,932,226	2,932,226	---
280 OFFICE OF ECONOMIC ADJUSTMENT.....	59,513	89,913	+30,400
290 OFFICE OF THE SECRETARY OF DEFENSE.....	1,604,738	1,573,476	-31,262
420 MISSILE DEFENSE AGENCY.....	522,529	522,529	---
470 OFFICE OF THE SECRETARY OF DEFENSE - CYBER.....	48,783	48,783	---
480 SPACE DEVELOPMENT AGENCY.....	44,750	26,849	-17,901
310 WASHINGTON HEADQUARTERS SERVICES.....	324,001	296,201	-27,800
OTHER PROGRAMS.....	15,736,098	15,676,957	-59,141
TOTAL, BUDGET ACTIVITY 4.....	30,052,049	29,923,441	-128,608
IMPACT AID.....	---	40,000	+40,000
IMPACT AID FOR CHILDREN WITH DISABILITIES.....	---	10,000	+10,000
PFOS/PFOA STUDIES AND ANALYSIS.....	---	13,000	+13,000
SEXUAL TRAUMA TREATMENT PILOT PROGRAM.....	---	3,000	+3,000
ATOMIC VETERANS SERVICE MEDAL .....	---	250	+250
GENDER ADVISORS.....	---	3,500	+3,500
TOTAL, OPERATION AND MAINTENANCE, DEFENSE-WIDE.....	37,399,341	37,256,022	-143,319



EXPLANATION OF PROJECT LEVEL ADJUSTMENTS  
[In thousands of dollars]

O-1		Budget Request	Committee Recommended	Change from Request
1PL6	SPECIAL OPERATIONS COMMAND COMBAT DEVELOPMENT ACTIVITIES	1,075,762	1,069,762	-6,000
	Classified adjustment		-6,000	
1PLU	SPECIAL OPERATIONS COMMAND INTELLIGENCE	501,747	490,486	-11,261
	SOCRATES - excess to need		-9,000	
	DCGS- SOF - excess to need		-5,794	
	Classified adjustment		-1,467	
	Program increase - document and media exploitation		5,000	
1PL7	SPECIAL OPERATIONS COMMAND MAINTENANCE	559,300	544,300	-15,000
	Projected underexecution		-15,000	
1PLV	SPECIAL OPERATIONS COMMAND OPERATIONAL SUPPORT	925,262	899,762	-25,500
	Base support - underexecution		-5,900	
	Operational support- underexecution		-9,600	
	C4IAS SaaS - excess to need		-10,000	
1PLR	SPECIAL OPERATIONS COMMAND THEATER FORCES	2,764,738	2,738,038	-26,700
	Force Related Training - projected underexecution		-14,700	
	SOCOM Requested Transfer to DHIP - POTFF Behavioral		-5,000	
	TSOC EA&A - excess to need		-3,000	
	USAJFKSWCS ASOT - excess to need		-4,000	
4GT3	CIVIL MILITARY PROGRAMS	165,707	260,707	95,000
	Program increase - National Guard Youth Challenge		50,000	
	Program increase - Starbase		35,000	
	Program increase - Innovative Readiness Training		10,000	
4GT6	DEFENSE CONTRACT AUDIT AGENCY	627,467	627,142	-325
	Excess FTEs		-300	
	Unjustified growth		-25	
4GTO	DEFENSE CONTRACT MANAGEMENT AGENCY	1,438,068	1,436,632	-1,436
	Excess civilian growth		-1,436	
4GT8	DEFENSE HUMAN RESOURCES ACTIVITY	892,438	915,938	23,500
	Enterprise Operations Center - excess growth		-5,000	
	Defense Manpower Data Center - excess growth		-5,000	
	Program increase- Special Victims' Counsel		35,000	
	Office of People Analytics - excess growth		-1,500	
4GT9	DEFENSE INFORMATION SYSTEMS AGENCY	2,012,885	1,974,163	-38,722
	Unjustified growth		-38,722	

O-1		Budget Request	Committee Recommended	Change from Request
4GU9	DEFENSE INFORMATION SYSTEMS AGENCY - CYBER	601,223	562,788	-38,435
	Insufficient justification		-73,572	
	Transfer from OM,DW line 999		35,137	
4GTA	DEFENSE LEGAL SERVICES AGENCY	34,632	33,152	-1,480
	Excess growth		-1,480	
4GTB	DEFENSE LOGISTICS AGENCY	415,699	430,199	14,500
	Excess growth		-5,000	
	Program increase - Procurement Technical Assistance Program		19,500	
4GTD	DEFENSE SECURITY COOPERATION AGENCY	696,884	623,073	-73,811
	Regional Centers - program adjustment	66,588	70,335	3,747
	Wales Initiative Fund	23,458	23,458	0
	Combating Terrorism Fellowship Program	24,238	24,238	0
	DSCA Headquarters - program adjustment	24,420	21,420	-3,000
	Security Cooperation Data Management	4,352	4,352	0
	Defense Institution Reform Initiative - program adjustment	28,127	26,127	-2,000
	Defense Institute of International Legal Studies	2,624	2,624	0
	Security Cooperation Account	396,761	424,313	27,552
	AFRICOM allotment - program adjustment	34,005	29,005	-5,000
	CENTCOM allotment - program adjustment	25,726	23,726	-2,000
	EUCOM allotment	27,713	27,713	0
	INDOPACOM allotment - program adjustment	108,490	178,490	70,000
	Southeast Asia Maritime Security Initiative	0	[70,000]	[70,000]
	NORTHCOM allotment	37,473	35,090	-2,383
	SOUTHCOM allotment	100,975	95,470	-5,505
	Building partnership capacity women's programs	0	[3,000]	[3,000]
	Support costs - program adjustment	62,380	34,820	-27,560
	Southeast Asia Maritime Security Initiative - included in INDOPACOM allotment	100,110	0	-100,110
	Ministry of Defense Advisors Program	7,207	7,207	0
	Assessment, Monitoring and Evaluation	9,081	9,081	0
	Security Cooperation Workforce Development	9,918	9,918	0
4GTK	DEFENSE TECHNICAL INFORMATION CENTER	3,000	2,000	-1,000
	Insufficient justification		-1,000	
4GTH	DEFENSE TECHNOLOGY SECURITY AGENCY	35,626	34,931	-695
	Insufficient justification		-695	
4GTM	OFFICE OF ECONOMIC ADJUSTMENT	59,513	89,913	30,400
	Program increase - community support		30,000	
	Program increase - civilian growth		400	
4GTN	OFFICE OF THE SECRETARY OF DEFENSE	1,604,738	1,573,476	-31,262
	Unjustified growth		-6,423	
	Excess growth		-56,839	
	Program increase - Information Assurance Scholarship Program		10,000	
	Program increase - Readiness Environmental Protection Initiative		12,000	
	Program increase - cyber scholarships and institutes		10,000	

O-1		Budget Request	Committee Recommended	Change from Request
ES14	SPACE DEVELOPMENT AGENCY	44,750	26,849	17,901
	Insufficient justification		-17,901	
4GTQ	WASHINGTON HEADQUARTERS SERVICES	324,001	296,201	-27,800
	Insufficient justification		-27,800	
999	OTHER PROGRAMS	15,736,098	15,676,957	-59,141
	Classified adjustment		-24,004	
	Transfer to OM,DW line 4GU9		-35,137	
	IMPACT AID		40,000	40,000
	IMPACT AID FOR CHILDREN WITH DISABILITIES		10,000	10,000
	PFOS/PFOA STUDIES AND ANALYSIS		13,000	13,000
	SEXUAL TRAUMA TREATMENT PILOT PROGRAM		3,000	3,000
	ATOMIC VETERANS SERVICE MEDAL		250	250
	GENDER ADVISORS AND RESEARCH		3,500	3,500

## SECURITY ASSISTANCE PROGRAMS

The Committee recommendation provides \$623,073,000 for base programs administered by the Defense Security Cooperation Agency (DSCA) and an additional \$1,614,178,000 in title IX for overseas contingency operations. Prior to the initial obligation of funds, the Committee directs the Director of DSCA to submit a spend plan by budget activity and sub-activity to the House and Senate Appropriations Committees. For funds planned for the Security Cooperation Account, the Director shall, in coordination with the geographic combatant commanders, identify amounts planned for each combatant command and country, and a comparison to such amounts provided in the previous five fiscal years.

The Committee recommendation includes funding at levels consistent with prior years for Jordan.

The Committee recommendation provides \$250,000,000 for the Ukraine Security Assistance Initiative, the same as the fiscal year 2019 enacted level. The Committee urges the new Government of Ukraine to implement additional reforms, including measures to combat corruption. The Committee directs the Secretary of Defense to submit a report to the congressional defense committees not later than 90 days after the enactment of this Act on the status of reforms in the security sector and efforts to reduce corruption in the security services, including through assistance programs provided in this Act.

The Committee recommendation includes funding for the Maritime Security Initiative for countries in the Indo-Pacific Command area of responsibility. The Committee notes that 10 U.S.C. 333 provides the Secretary of Defense with the authority to carry out security assistance programs in a number of areas, including for maritime and border security operations. The Committee directs the Secretary of Defense to submit a copy of the Indo-Pacific Strategic Framework and the Indo-Pacific Implementation Plan to the congressional defense committees not later than 30 days after the enactment of this Act and prior to the initial obligation of funds for security assistance programs in the Indo-Pacific Command area of responsibility.

The Committee recommendation provides funding for certain border security programs under the Counter-ISIS Train and Equip Fund instead of under the security assistance programs.

The Committee directs the Secretary of Defense to provide information and documents, as appropriate, to the appropriate judicial authorities in El Salvador investigating the December 1981 massacre in El Mozote.

## INVENTORY MANAGEMENT

The Committee is concerned by the lack of accurate inventory management controls in place at the Department of Defense which often result in lost material, parts, and funding. The Committee directs the Secretary of Defense, in coordination with the Directors of the Defense Logistics Agency, the Defense Contract Management Agency, and the Defense Contract Audit Agency, to submit a report to the congressional defense committees not later than 60 days after the enactment of this Act that describes how the Department

can better track its inventory. The report should include possible ways to hold contractors liable for lost or unaccounted parts and material, especially when contractors are on contract to provide inventory management.

#### OFFICE OF ECONOMIC ADJUSTMENT—COMMUNITY ACTIVITIES

The Committee recommendation includes an additional \$30,400,000 for the Office of Economic Adjustment whose mission is to provide support to communities and states that support the readiness of military installations, ranges, and military supply chains. The Committee understands that the responsibilities of the Office of Economic Adjustment have been expanded and believes that these additional funds, with the addition of two full time equivalents, will enhance its ability to support both community and military missions.

#### DEFENSE COMMISSARY AGENCY

In 2018, the Department of Defense began to sell beer and wine in defense commissaries. However, the Committee notes that the sale of distilled spirits is still not included in the 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 submit a report to the House and Senate Appropriations Committees not later than 90 days after the enactment of this Act not on why the decision was made, but whether the decision to restrict the sale of distilled spirits in military commissaries will be reconsidered in the near future.

#### DEFENSE COUNTERINTELLIGENCE AND SECURITY AGENCY

The primary responsibility for conducting background investigations for the federal government officially shifted from the Office of Personnel Management to the Department of Defense, Defense Counterintelligence and Security Agency, formerly known as the Defense Security Service, on April 24, 2019. The Committee is closely monitoring the transition and notes the increases in both budget and number of civilian personnel that are tied to the transfer. Further, the Committee remains interested in fully understanding the Department's cost recovery/service charge model, which is a key feature of the recently established background investigation working capital fund.

The Committee directs the Director of the Defense Counterintelligence and Security Agency to provide quarterly progress reports to the House and Senate Appropriations Committees that include budgetary updates on related activities funded with direct appropriations and funds received from other departments, agencies, or organizations on a reimbursable basis. The first quarterly report should be provided not later than 60 days after the enactment of this Act and should continue through the end of fiscal year 2020.

## SUSTAINABLE ENERGY INITIATIVES

The Committee recognizes the advances the Department of Defense has made in increasing sustainable and renewable energy supply to its facilities. Expanding the installation of energy use reduction technologies and renewable, sustainable energy sources on defense installations provides protection against threats to the commercial grid, reduces energy costs, and provides environmental benefits to the community. The Committee encourages the Secretary of Defense to continue to expand the use of sustainable and renewable energy sources.

## PFOS/PFOA EXPOSURE ASSESSMENT

The National Defense Authorization Act for Fiscal Year 2019 authorized a study and assessment of the health implications of perfluorooctane sulfonate (PFOS) and perfluorooctanoic acid (PFOA) contamination on military installations. The Committee recommendation includes \$13,000,000 for the study and assessment, which shall be limited to current or former domestic military installations known to have PFOS/PFOA contamination in drinking water, ground water, and any other sources of water and relevant exposure pathways. The Committee also directs the Assistant Secretary of Defense (Energy, Installations, and Environment) to submit a report to the House and Senate Appropriations Committees not later than 30 days after the enactment of this Act on the Department's strategy to execute this funding.

The Committee remains deeply concerned about PFOS/PFOA contamination on current and former domestic military installations. As the Department conducts its exposure assessment on all installations known to have PFOS/PFOA drinking water contamination, the Committee directs the Assistant Secretary of Defense (Energy, Installations, and Environment) to publicly release the measured levels of contamination found at each installation. For all remediation activities, the Department is directed to achieve a drinking water cleanup standard no higher than the threshold of the Environmental Protection Agency (EPA) health advisory level (currently 70 parts per trillion) for federally controlled sites and surrounding communities whose water sources were contaminated as a result of Department activities.

## OPERATION AND MAINTENANCE, ARMY RESERVE

Fiscal year 2019 appropriation .....	\$2,781,402,000
Fiscal year 2020 budget request .....	1,080,103,000
Committee recommendation .....	3,009,594,000
Change from budget request .....	+1,929,491,000

The Committee recommends an appropriation of \$3,009,594,000 for Operation and Maintenance, Army Reserve which will provide the following program in fiscal year 2020:

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
OPERATION AND MAINTENANCE, ARMY RESERVE			
BUDGET ACTIVITY 1: OPERATING FORCES			
10 LAND FORCES			
MODULAR SUPPORT BRIGADES.....	---	11,927	+11,927
20 ECHELONS ABOVE BRIGADES.....	---	533,015	+533,015
30 THEATER LEVEL ASSETS.....	---	118,101	+118,101
40 LAND FORCES OPERATIONS SUPPORT.....	---	548,268	+548,268
50 AVIATION ASSETS.....	---	85,170	+85,170
60 LAND FORCES READINESS			
FORCES READINESS OPERATIONS SUPPORT.....	390,061	388,661	-1,400
70 LAND FORCES SYSTEM READINESS.....	101,890	101,890	---
80 DEPOT MAINTENANCE.....	---	48,503	+48,503
90 LAND FORCES READINESS SUPPORT			
BASE OPERATIONS SUPPORT.....	---	594,707	+594,707
100 FACILITIES SUSTAINMENT, RESTORATION & MODERNIZATION ....	444,376	435,576	-8,800
110 MANAGEMENT AND OPERATIONS HEADQUARTERS.....	22,095	22,095	---
120 CYBERSPACE ACTIVITIES - CYBERSPACE OPERATIONS.....	3,288	3,288	---
130 CYBERSPACE ACTIVITIES - CYBERSECURITY.....	7,655	7,655	---
TOTAL, BUDGET ACTIVITY 1.....	969,365	2,898,856	+1,929,491
BUDGET ACTIVITY 4: ADMIN & SERVICEWIDE ACTIVITIES			
ADMINISTRATION AND SERVICEWIDE ACTIVITIES			
120 SERVICEWIDE TRANSPORTATION.....	14,533	14,533	---
130 ADMINISTRATION.....	17,231	17,231	---
140 SERVICEWIDE COMMUNICATIONS.....	14,304	14,304	---
150 PERSONNEL/FINANCIAL ADMINISTRATION .....	6,129	6,129	---
160 RECRUITING AND ADVERTISING.....	58,541	58,541	---
TOTAL, BUDGET ACTIVITY 4.....	110,738	110,738	---
RESTORE READINESS.....	---	10,000	+10,000
HISTORICAL UNOBLIGATION.....	---	-10,000	-10,000
TOTAL, OPERATION AND MAINTENANCE, ARMY RESERVE.....	1,080,103	3,009,594	+1,929,491

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS  
[In thousands of dollars]

O-1	Budget Request	Committee Recommended	Change from Request
<b>112 MODULAR SUPPORT BRIGADES</b>	0	11,927	11,927
Transfer from title IX		11,927	
<b>113 ECHELONS ABOVE BRIGADES</b>	0	533,015	533,015
Transfer from title IX		533,015	
<b>114 THEATER LEVEL ASSETS</b>	0	118,101	118,101
Transfer from title IX		119,517	
Insufficient justification		-1,416	
<b>115 LAND FORCES OPERATIONS SUPPORT</b>	0	548,268	548,268
Transfer from title IX		550,468	
Insufficient justification		-2,200	
<b>116 AVIATION ASSETS</b>	0	85,170	85,170
Transfer from title IX		86,670	
Unjustified growth		-1,500	
<b>121 FORCES READINESS OPERATIONS SUPPORT</b>	390,061	388,661	-1,400
Excess civilian increase		-400	
Excess travel increase		-1,000	
<b>123 DEPOT MAINTENANCE</b>	0	48,503	48,503
Transfer from title IX		48,503	
<b>131 BASE OPERATIONS SUPPORT</b>	0	594,707	594,707
Transfer from title IX		598,907	
Insufficient justification		-4,200	
<b>132 FACILITIES SUSTAINMENT, RESTORATION &amp; MODERNIZATION</b>	444,376	435,576	-8,800
Insufficient justification		-8,800	
<b>RESTORE READINESS</b>		10,000	10,000
<b>HISTORICAL UNOBLIGATION</b>		-10,000	-10,000



## OPERATION AND MAINTENANCE, NAVY RESERVE

Fiscal year 2019 appropriation .....	\$1,018,006,000
Fiscal year 2020 budget request .....	261,284,000
Committee recommendation .....	1,110,116,000
Change from budget request .....	+848,832,000

The Committee recommends an appropriation of \$1,110,116,000 for Operation and Maintenance, Navy Reserve which will provide the following program in fiscal year 2020:

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST	
OPERATION AND MAINTENANCE, NAVY RESERVE				
BUDGET ACTIVITY 1: OPERATING FORCES				
10	RESERVE AIR OPERATIONS MISSION AND OTHER FLIGHT OPERATIONS.....	---	634,220	+634,220
20	INTERMEDIATE MAINTENANCE.....	8,767	8,767	---
30	AIRCRAFT DEPOT MAINTENANCE.....	---	108,236	+108,236
40	AIRCRAFT DEPOT OPERATIONS SUPPORT.....	463	463	---
50	AVIATION LOGISTICS.....	26,014	26,014	---
60	RESERVE SHIP OPERATIONS SHIP OPERATIONAL SUPPORT AND TRAINING.....	583	583	---
70	RESERVE COMBAT OPERATIONS SUPPORT COMBAT COMMUNICATIONS.....	17,883	17,883	---
80	COMBAT SUPPORT FORCES.....	128,079	128,079	---
90	CYBERSPACE ACTIVITIES.....	356	356	---
100	RESERVE WEAPONS SUPPORT ENTERPRISE INFORMATION TECHNOLOGY.....	26,133	26,133	---
110	BASE OPERATING SUPPORT FACILITIES SUSTAINMENT, RESTORATION & MODERNIZATION ....	35,397	35,397	---
120	BASE OPERATING SUPPORT.....	---	101,376	+101,376
TOTAL, BUDGET ACTIVITY 1.....		243,675	1,087,507	+843,832
BUDGET ACTIVITY 4: ADMIN & SERVICEWIDE ACTIVITIES				
130	ADMINISTRATION AND SERVICEWIDE ACTIVITIES ADMINISTRATION.....	1,888	1,888	---
140	MILITARY MANPOWER & PERSONNEL.....	12,778	12,778	---
160	ACQUISITION AND PROGRAM MANAGEMENT.....	2,943	2,943	---
TOTAL, BUDGET ACTIVITY 4.....		17,609	17,609	---
RESTORE READINESS.....		---	5,000	+5,000
TOTAL, OPERATION AND MAINTENANCE, NAVY RESERVE.....		261,284	1,110,116	+848,832

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS  
[In thousands of dollars]

O-1	Budget Request	Committee Recommended	Change from Request
<b>1A1A MISSION AND OTHER FLIGHT OPERATIONS</b>	<b>0</b>	<b>634,220</b>	<b>634,220</b>
Transfer from title IX		654,220	
Unjustified growth		-20,000	
<b>1A5A AIRCRAFT DEPOT MAINTENANCE</b>	<b>0</b>	<b>108,236</b>	<b>108,236</b>
Transfer from title IX		108,236	
<b>BSSR BASE OPERATING SUPPORT</b>	<b>0</b>	<b>101,376</b>	<b>101,376</b>
Transfer from title IX		101,376	
<b>RESTORE READINESS</b>		<b>5,000</b>	<b>5,000</b>

# OPERATION AND MAINTENANCE, MARINE CORPS RESERVE

Fiscal year 2019 appropriation .....	\$271,570,000
Fiscal year 2020 budget request .....	61,090,000
Committee recommendation .....	294,076,000
Change from budget request .....	+232,986,000

The Committee recommends an appropriation of \$294,076,000 for Operation and Maintenance, Marine Corps Reserve which will provide the following program in fiscal year 2020:

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
OPERATION AND MAINTENANCE, MARINE CORPS RESERVE			
BUDGET ACTIVITY 1: OPERATING FORCES			
10	EXPEDITIONARY FORCES OPERATING FORCES.....	---	106,484
			+106,484
20	DEPOT MAINTENANCE.....	---	15,929
			+15,929
30	FACILITIES SUSTAINMENT, RESTORATION & MODERNIZATION ....	47,516	47,516
			---
40	BASE OPERATING SUPPORT.....	---	106,073
			+106,073
	TOTAL, BUDGET ACTIVITY 1.....	47,516	276,002
			+228,486
BUDGET ACTIVITY 4: ADMIN & SERVICEWIDE ACTIVITIES			
60	ADMINISTRATION AND SERVICEWIDE ACTIVITIES ADMINISTRATION.....	13,574	13,074
			-500
	TOTAL, BUDGET ACTIVITY 4.....	13,574	13,074
			-500
	RESTORE READINESS.....	---	5,000
			+5,000
	TOTAL, OPERATION & MAINTENANCE, MARINE CORPS RESERVE..	61,090	294,076
			+232,986

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS  
[In thousands of dollars]

O-1	Budget Request	Committee Recommended	Change from Request
<b>1A1A OPERATING FORCES</b>	0	<b>106,484</b>	106,484
Transfer from title IX		106,484	
<b>1A3A DEPOT MAINTENANCE</b>	0	<b>15,929</b>	<b>15,929</b>
Transfer from title IX		18,429	
Excess growth		-2,500	
<b>BSS1 BASE OPERATING SUPPORT</b>	0	<b>106,073</b>	<b>106,073</b>
Transfer from title IX		106,073	
<b>4A4G ADMINISTRATION</b>	<b>13,574</b>	<b>13,074</b>	<b>-500</b>
Excess civilian growth		-500	
<b>RESTORE READINESS</b>		<b>5,000</b>	<b>5,000</b>

# OPERATION AND MAINTENANCE, AIR FORCE RESERVE

Fiscal year 2019 appropriation .....	\$3,191,734,000
Fiscal year 2020 budget request .....	2,231,445,000
Committee recommendation .....	3,356,685,000
Change from budget request .....	+1,125,240,000

The Committee recommends an appropriation of \$3,356,685,000 for Operation and Maintenance, Air Force Reserve which will provide the following program in fiscal year 2020:

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
OPERATION AND MAINTENANCE, AIR FORCE RESERVE			
BUDGET ACTIVITY 1: OPERATING FORCES			
10 AIR OPERATIONS			
PRIMARY COMBAT FORCES.....	1,781,413	1,770,780	-10,633
20 MISSION SUPPORT OPERATIONS.....	209,650	204,150	-5,500
30 DEPOT MAINTENANCE.....	---	484,235	+484,235
40 FACILITIES SUSTAINMENT, RESTORATION & MODERNIZATION ....	128,746	128,746	---
70 CYBERSPACE ACTIVITIES.....	1,673	1,673	---
50 CONTRACTOR LOGISTICS SUPPORT AND SYSTEM SUPPORT.....	---	251,512	+251,512
60 BASE OPERATING SUPPORT.....	---	414,626	+414,626
TOTAL, BUDGET ACTIVITY 1.....	2,121,482	3,255,722	+1,134,240
BUDGET ACTIVITY 4: ADMIN & SERVICEWIDE ACTIVITIES			
70 ADMINISTRATION AND SERVICEWIDE ACTIVITIES			
ADMINISTRATION.....	69,436	69,436	---
80 RECRUITING AND ADVERTISING.....	22,124	22,124	---
90 MILITARY MANPOWER AND PERSONNEL MANAGEMENT.....	10,946	10,946	---
100 OTHER PERSONNEL SUPPORT.....	7,009	7,009	---
110 AUDIOVISUAL.....	448	448	---
TOTAL, BUDGET ACTIVITY 4.....	109,963	109,963	---
RESTORE READINESS.....	---	5,000	+5,000
HISTORICAL UNOBLIGATION.....	---	-14,000	-14,000
TOTAL, OPERATION AND MAINTENANCE, AIR FORCE RESERVE...	2,231,445	3,356,685	+1,125,240



EXPLANATION OF PROJECT LEVEL ADJUSTMENTS  
[In thousands of dollars]

O-1	Budget Request	Committee Recommended	Change from Request
<b>11A PRIMARY COMBAT FORCES</b>	<b>1,781,413</b>	<b>1,770,780</b>	<b>-10,633</b>
Excess growth		-10,633	
<b>11G MISSION SUPPORT OPERATIONS</b>	<b>209,650</b>	<b>204,150</b>	<b>-5,500</b>
Insufficient justification		-5,500	
<b>11M DEPOT MAINTENANCE</b>	<b>0</b>	<b>484,235</b>	<b>484,235</b>
Transfer from title IX		484,235	
Excess growth		-10,000	
<b>11W CONTRACTOR LOGISTICS SUPPORT AND SYSTEM</b>	<b>0</b>	<b>251,512</b>	<b>251,512</b>
Transfer from title IX		256,512	
Excess growth		-5,000	
<b>11Z BASE OPERATING SUPPORT</b>	<b>0</b>	<b>414,626</b>	<b>414,626</b>
Transfer from title IX		414,626	
<b>RESTORE READINESS</b>		<b>5,000</b>	<b>5,000</b>
<b>HISTORICAL UNOBLIGATION</b>		<b>-14,000</b>	<b>-14,000</b>

## OPERATION AND MAINTENANCE, ARMY NATIONAL GUARD

Fiscal year 2019 appropriation .....	\$7,118,831,000
Fiscal year 2020 budget request .....	3,335,755,000
Committee recommendation .....	7,448,536,000
Change from budget request .....	+4,112,781,000

The Committee recommends an appropriation of \$7,448,536,000 for Operation and Maintenance, Army National Guard which will provide the following program in fiscal year 2020:

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
OPERATION AND MAINTENANCE, ARMY NATIONAL GUARD			
BUDGET ACTIVITY 1: OPERATING FORCES			
10 LAND FORCES MANEUVER UNITS.....	---	797,671	+797,671
20 MODULAR SUPPORT BRIGADES.....	---	193,334	+193,334
30 ECHELONS ABOVE BRIGADE.....	---	770,548	+770,548
40 THEATER LEVEL ASSETS.....	---	91,826	+91,826
50 LAND FORCES OPERATIONS SUPPORT.....	---	35,185	+35,185
60 AVIATION ASSETS.....	---	973,819	+973,819
70 LAND FORCES READINESS FORCE READINESS OPERATIONS SUPPORT.....	743,206	743,206	---
80 LAND FORCES SYSTEMS READINESS.....	50,963	50,963	---
90 LAND FORCES DEPOT MAINTENANCE.....	---	249,778	+249,778
100 LAND FORCES READINESS SUPPORT BASE OPERATIONS SUPPORT.....	---	1,121,576	+1,121,576
110 FACILITIES SUSTAINMENT, RESTORATION & MODERNIZATION ....	1,113,475	1,013,475	-100,000
120 MANAGEMENT AND OPERATIONAL HEADQUARTERS.....	1,001,042	987,042	-14,000
130 CYBERSPACE ACTIVITIES - CYBERSPACE OPERATIONS.....	8,448	8,448	---
140 CYBERSPACE ACTIVITIES - CYBERSECURITY.....	7,768	7,768	---
TOTAL, BUDGET ACTIVITY 1.....	2,924,902	7,044,639	+4,119,737
BUDGET ACTIVITY 4: ADMIN & SERVICEWIDE ACTIVITIES			
130 ADMINISTRATION AND SERVICEWIDE ACTIVITIES SERVICEWIDE TRANSPORTATION.....	9,890	9,890	---
140 ADMINISTRATION.....	71,070	72,114	+1,044
150 SERVICEWIDE COMMUNICATIONS.....	68,213	68,213	---
160 MANPOWER MANAGEMENT.....	8,628	8,628	---
170 RECRUITING AND ADVERTISING.....	250,376	250,376	---
180 REAL ESTATE MANAGEMENT.....	2,676	2,676	---
TOTAL, BUDGET ACTIVITY 4.....	410,853	411,897	+1,044
RESTORE READINESS.....	---	20,000	+20,000
HISTORICAL UNOBLIGATION.....	---	-28,000	-28,000
TOTAL, OPERATION & MAINTENANCE, ARMY NATIONAL GUARD...	3,335,755	7,448,536	+4,112,781

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS  
[In thousands of dollars]

O-1	Budget Request	Committee Recommended	Change from Request
<b>111 MANEUVER UNITS</b>	<b>0</b>	<b>797,671</b>	<b>797,671</b>
Transfer from title IX		805,671	
Excess growth		-8,000	
<b>112 MODULAR SUPPORT BRIGADES</b>	<b>0</b>	<b>193,334</b>	<b>193,334</b>
Transfer from title IX		195,334	
Excess growth		-2,000	
<b>113 ECHELONS ABOVE BRIGADE</b>	<b>0</b>	<b>770,548</b>	<b>770,548</b>
Transfer from title IX		771,048	
Excess growth		-500	
<b>114 THEATER LEVEL ASSETS</b>	<b>0</b>	<b>91,826</b>	<b>91,826</b>
Transfer from title IX		94,726	
Excess growth		-2,900	
<b>115 LAND FORCES OPERATIONS SUPPORT</b>	<b>0</b>	<b>35,185</b>	<b>35,185</b>
Transfer from title IX		33,696	
Program increase - advanced trauma training program		489	
Program increase - corrosion control		1,000	
<b>116 AVIATION ASSETS</b>	<b>0</b>	<b>973,819</b>	<b>973,819</b>
Transfer from title IX		981,819	
Excess growth		-8,000	
<b>123 LAND FORCES DEPOT MAINTENANCE</b>	<b>0</b>	<b>249,778</b>	<b>249,778</b>
Transfer from title IX		258,278	
Insufficient justification		-8,500	
<b>131 BASE OPERATIONS SUPPORT</b>	<b>0</b>	<b>1,121,576</b>	<b>1,121,576</b>
Transfer from title IX		1,153,076	
Insufficient justification		-31,500	
<b>132 FACILITIES SUSTAINMENT, RESTORATION &amp; MODERNIZATION</b>	<b>1,113,475</b>	<b>1,013,475</b>	<b>-100,000</b>
Insufficient justification		-100,000	
<b>132 MANAGEMENT AND OPERATIONAL HEADQUARTERS</b>	<b>1,001,042</b>	<b>987,042</b>	<b>-14,000</b>
Insufficient justification		-14,000	
<b>431 ADMINISTRATION</b>	<b>71,070</b>	<b>72,114</b>	<b>1,044</b>
Program Increase - State Partnership Program		1,044	
<b>RESTORE READINESS</b>		<b>20,000</b>	<b>20,000</b>
<b>HISTORICAL UNOBLIGATION</b>		<b>-28,000</b>	<b>-28,000</b>

# OPERATION AND MAINTENANCE, AIR NATIONAL GUARD

Fiscal year 2019 appropriation .....	\$6,420,697,000
Fiscal year 2020 budget request .....	3,612,156,000
Committee recommendation .....	6,592,589,000
Change from budget request .....	+2,980,433,000

The Committee recommends an appropriation of \$6,592,589,000 for Operation and Maintenance, Air National Guard which will provide the following program in fiscal year 2020:

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
OPERATION AND MAINTENANCE, AIR NATIONAL GUARD			
BUDGET ACTIVITY 1: OPERATING FORCES			
10 AIR OPERATIONS			
AIRCRAFT OPERATIONS.....	2,497,967	2,419,267	-78,700
20 MISSION SUPPORT OPERATIONS.....	600,377	596,037	-4,340
30 DEPOT MAINTENANCE.....	---	867,467	+867,467
40 FACILITIES SUSTAINMENT, RESTORATION & MODERNIZATION ....	400,734	395,134	-5,600
80 CYBERSPACE ACTIVITIES.....	25,507	25,507	---
80 CYBERSPACE SUSTAINMENT.....	---	24,742	+24,742
50 CONTRACTOR LOGISTICS SUPPORT AND SYSTEM SUPPORT.....	---	1,285,089	+1,285,089
60 BASE OPERATING SUPPORT.....	---	901,775	+901,775
TOTAL, BUDGET ACTIVITY 1.....	3,524,585	6,515,018	+2,990,433
BUDGET ACTIVITY 4: ADMIN & SERVICEWIDE ACTIVITIES			
SERVICEWIDE ACTIVITIES			
70 ADMINISTRATION.....	47,215	47,215	---
80 RECRUITING AND ADVERTISING.....	40,356	40,356	---
TOTAL, BUDGET ACTIVITY 4.....	87,571	87,571	---
RESTORE READINESS.....	---	10,000	+10,000
HISTORICAL UNOBLIGATION.....	---	-20,000	-20,000
TOTAL, OPERATION & MAINTENANCE, AIR NATIONAL GUARD....	3,612,156	6,592,589	+2,980,433

**EXPLANATION OF PROJECT LEVEL ADJUSTMENTS**  
 [In thousands of dollars]

<b>O-1</b>	<b>Budget Request</b>	<b>Committee Recommended</b>	<b>Change from Request</b>
<b>11F AIRCRAFT OPERATIONS</b>	<b>2,497,967</b>	<b>2,419,267</b>	<b>-78,700</b>
Insufficient justification		-78,700	
<b>11G MISSION SUPPORT OPERATIONS</b>	<b>600,377</b>	<b>596,037</b>	<b>-4,340</b>
Insufficient justification		-15,000	
Program increase - State Partnership Program		360	
Program increase - State Partnership virtual language project		500	
Program increase - trauma training program		1,800	
Program increase - JTAC training		8,000	
<b>11M DEPOT MAINTENANCE</b>	<b>0</b>	<b>867,467</b>	<b>867,467</b>
Transfer from title IX		879,467	
Excess growth		-12,000	
<b>FACILITIES SUSTAINMENT, RESTORATION &amp; MODERNIZATION</b>	<b>400,734</b>	<b>395,134</b>	<b>-5,600</b>
Insufficient justification		-5,600	
<b>11V CYBERSPACE SUSTAINMENT</b>	<b>0</b>	<b>24,742</b>	<b>24,742</b>
Transfer from title IX		24,742	
<b>CONTRACTOR LOGISTICS SUPPORT AND SYSTEM SUPPORT</b>	<b>0</b>	<b>1,285,089</b>	<b>1,285,089</b>
Transfer from title IX		1,299,089	
Excess growth		-14,000	
<b>11Z BASE OPERATING SUPPORT</b>	<b>0</b>	<b>901,775</b>	<b>901,775</b>
Transfer from title IX		911,775	
Insufficient justification		-10,000	
<b>RESTORE READINESS</b>		<b>10,000</b>	<b>10,000</b>
<b>HISTORICAL UNOBLIGATION</b>		<b>-20,000</b>	<b>-20,000</b>

### UNITED STATES COURT OF APPEALS FOR THE ARMED FORCES

Fiscal year 2019 appropriation .....	\$14,662,000
Fiscal year 2020 budget request .....	14,771,000
Committee recommendation .....	14,771,000
Change from budget request .....	---

The Committee recommends an appropriation of \$14,771,000 for the United States Court of Appeals for the Armed Forces.

### ENVIRONMENTAL RESTORATION, ARMY

Fiscal year 2019 appropriation .....	\$235,809,000
Fiscal year 2020 budget request .....	207,518,000
Committee recommendation .....	235,809,000
Change from budget request .....	+28,291,000

The Committee recommends an appropriation of \$235,809,000 for Environmental Restoration, Army.

### ENVIRONMENTAL RESTORATION, NAVY

Fiscal year 2019 appropriation .....	\$365,883,000
Fiscal year 2020 budget request .....	335,932,000
Committee recommendation .....	365,883,000
Change from budget request .....	+29,951,000

The Committee recommends an appropriation of \$365,883,000 for Environmental Restoration, Navy.

### ENVIRONMENTAL RESTORATION, AIR FORCE

Fiscal year 2019 appropriation .....	\$365,808,000
Fiscal year 2020 budget request .....	302,744,000
Committee recommendation .....	365,808,000
Change from budget request .....	+63,064,000

The Committee recommends an appropriation of \$365,808,000 for Environmental Restoration, Air Force.

### GRANULAR ACTIVATED CARBON

The Committee is concerned by actual and potential incidents of contaminated drinking water on and around military bases. The Committee understands that in more than one instance, the Services' use of firefighting foam during training exercises may have caused perfluorinated chemicals (PFCs) to enter the ground and drinking water supply. The Committee recognizes that using granular activated carbon is an effective way of removing PFCs from ground water and drinking water and encourages the Secretary of the Air Force to explore the use of granular activated carbon for the removal of PFCs that impact environmental and human health standards at all Air Force bases.

### ENVIRONMENTAL RESTORATION, DEFENSE-WIDE

Fiscal year 2019 appropriation .....	\$19,002,000
Fiscal year 2020 budget request .....	9,105,000
Committee recommendation .....	19,002,000
Change from budget request .....	+9,897,000

The Committee recommends an appropriation of \$19,002,000 for Environmental Restoration, Defense-Wide.



### ENVIRONMENTAL RESTORATION, FORMERLY USED DEFENSE SITES

Fiscal year 2019 appropriation .....	\$248,673,000
Fiscal year 2020 budget request .....	216,499,000
Committee recommendation .....	260,499,000
Change from budget request .....	+44,000,000

The Committee recommends an appropriation of \$260,499,000 for Environmental Restoration, Formerly Used Defense Sites.

### OVERSEAS HUMANITARIAN, DISASTER, AND CIVIC AID

Fiscal year 2019 appropriation .....	\$117,663,000
Fiscal year 2020 budget request .....	108,600,000
Committee recommendation .....	117,663,000
Change from budget request .....	+9,063,000

The Committee recommends an appropriation of \$117,663,000 for Overseas Humanitarian, Disaster, and Civic Aid, which will provide the following program in fiscal year 2020:

#### EXPLANATION OF PROJECT LEVEL ADJUSTMENTS

[In thousands of dollars]

	Budget Request	Committee Recommended	Change from Request
FOREIGN DISASTER RELIEF .....	21,277	28,099	6,822
Program increase .....		6,822	
HUMANITARIAN ASSISTANCE .....	74,564	74,564	0
HUMANITARIAN MINE ACTION PROGRAM .....	12,759	15,000	2,241
Program increase .....		2,241	
TOTAL, OVERSEAS HUMANITARIAN, DISASTER, AND CIVIC AID .....	108,600	117,663	9,063

## COOPERATIVE THREAT REDUCTION ACCOUNT

Fiscal year 2019 appropriation .....	\$350,240,000
Fiscal year 2020 budget request .....	338,700,000
Committee recommendation .....	353,700,000
Change from budget request .....	+15,000,000

The Committee recommends an appropriation of \$353,700,000 for the Cooperative Threat Reduction Account which will provide the following program in fiscal year 2020:

## EXPLANATION OF PROJECT LEVEL ADJUSTMENTS

[In thousands of dollars]

	Budget Request	Committee Recommended	Change from Request
COOPERATIVE THREAT REDUCTION ACCOUNT			
Strategic Offensive Arms Elimination .....	492	492	0
Chemical Weapons Destruction .....	12,856	12,856	0
Global Nuclear Security .....	33,919	48,919	15,000
Program increase—Global Nuclear Security .....		15,000	
Biological Threat Reduction Program .....	183,642	183,642	0
Proliferation Prevention Program .....	79,869	79,869	0
Other Assessments/Admin Costs .....	27,922	27,922	0
TOTAL, COOPERATIVE THREAT REDUCTION ACCOUNT .....	338,700	353,700	15,000

DEPARTMENT OF DEFENSE ACQUISITION WORKFORCE  
DEVELOPMENT FUND

Fiscal year 2019 appropriation .....	\$450,000,000
Fiscal year 2020 budget request .....	400,000,000
Committee recommendation .....	400,000,000
Change from budget request .....	— — —

The Committee recommends an appropriation of \$400,000,000 for the Department of Defense Acquisition Workforce Development Fund which will provide the following program in fiscal year 2020:

## EXPLANATION OF PROJECT LEVEL ADJUSTMENTS

[In thousands of dollars]

	Budget Request	Committee Recommended	Change from Request
Training and Development .....	239,200	239,200	0
Retention and Recognition .....	20,000	20,000	0
Recruiting and Hiring .....	140,800	140,800	0
TOTAL, DEPARTMENT OF DEFENSE ACQUISITION WORKFORCE DEVELOPMENT FUND .....	400,000	400,000	0

TITLE III  
PROCUREMENT

The fiscal year 2020 Department of Defense procurement budget request totals \$118,923,130,000. The Committee recommendation provides \$130,303,576,000 for the procurement accounts. The table below summarizes the Committee recommendations:

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
-----			
SUMMARY			
ARMY			
AIRCRAFT.....	3,696,429	3,689,720	-6,709
MISSILES.....	---	3,218,272	+3,218,272
WEAPONS AND TRACKED COMBAT VEHICLES.....	4,715,566	4,849,373	+133,807
AMMUNITION.....	---	2,583,895	+2,583,895
OTHER.....	7,443,101	7,583,678	+140,577
TOTAL, ARMY.....	15,855,096	21,924,938	+6,069,842
NAVY			
AIRCRAFT.....	18,522,204	18,971,913	+449,709
WEAPONS.....	---	4,061,797	+4,061,797
AMMUNITION.....	---	848,782	+848,782
SHIPS.....	23,783,710	21,699,556	-2,084,154
OTHER.....	9,652,956	9,123,068	-529,888
MARINE CORPS.....	3,090,449	2,826,951	-263,498
TOTAL, NAVY.....	55,049,319	57,532,067	+2,482,748
AIR FORCE			
AIRCRAFT.....	16,784,279	17,877,933	+1,093,654
MISSILES.....	2,889,187	2,789,287	-99,900
SPACE.....	2,414,383	2,368,443	-45,940
AMMUNITION.....	---	1,602,761	+1,602,761
OTHER.....	20,687,857	21,042,888	+355,031
TOTAL, AIR FORCE.....	42,775,706	45,681,312	+2,905,606
DEFENSE-WIDE			
DEFENSE-WIDE.....	5,109,416	5,100,866	-8,550
NATIONAL GUARD AND RESERVE EQUIPMENT.....	---	---	---
DEFENSE PRODUCTION ACT PURCHASES.....	34,393	64,393	+30,000
JOINT URGENT OPERATIONAL NEEDS FUND.....	99,200	---	-99,200
=====	=====	=====	=====
TOTAL PROCUREMENT.....	118,923,130	130,303,576	+11,380,446
=====	=====	=====	=====

## REPROGRAMMING GUIDANCE FOR ACQUISITION ACCOUNTS

The Committee directs the Under Secretary of Defense (Comptroller) to submit a prior approval reprogramming to the congressional defense committees for any reprogramming of funding above a threshold of \$10,000,000 for either a procurement or a research, development, test and evaluation line.

Also, the Committee directs the Under Secretary of Defense (Comptroller) 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 the guidance specified in the explanatory statement accompanying the Department of Defense Appropriations Act, 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 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 these tables shall be provided only for the specific purposes indicated in the tables.

## PROCUREMENT SPECIAL INTEREST ITEMS

Items for which additional funds have been provided as shown in the project level tables or in paragraphs using the phrase “only for” or “only to” in this report are congressional special interest items for the purpose of the Base for Reprogramming (DD Form 1414). Each of these items must be carried on the DD Form 1414 at the stated amount as specifically addressed in the Committee report. These items remain special interest items whether or not they are repeated in a subsequent explanatory statement.

## AIRCRAFT PROCUREMENT, ARMY

Fiscal year 2019 appropriation .....	\$4,299,566,000
Fiscal year 2020 budget request .....	3,696,429,000
Committee recommendation .....	3,689,720,000
Change from budget request .....	- 6,709,000

The Committee recommends an appropriation of \$3,689,720,000 for Aircraft Procurement, Army which will provide the following program in fiscal year 2020:

(DOLLARS IN THOUSANDS)

		BUDGET REQUEST		COMMITTEE RECOMMENDED		CHANGE FROM REQUEST	
		QTY	AMOUNT	QTY	AMOUNT	QTY	AMOUNT
-----							
AIRCRAFT PROCUREMENT, ARMY							
AIRCRAFT							
FIXED WING							
2	UTILITY F/W CARGO AIRCRAFT.....	1	16,000	1	---	---	-16,000
4	RQ-11 (RAVEN).....	---	23,510	---	21,420	---	-2,090
ROTARY							
5	TACTICAL UNMANNED AIRCRAFT SYSTEM (TUAS).....	---	12,100	---	12,100	---	---
8	AH-64 APACHE BLOCK IIIA REMAN.....	48	806,849	48	798,785	---	-8,064
9	AH-64 APACHE BLOCK IIIA REMAN (AP-CY).....	---	190,870	---	190,870	---	---
12	UH-60 BLACKHAWK (MYP).....	73	1,411,540	73	1,411,540	---	---
13	UH-60 BLACKHAWK (MYP) (AP-CY).....	---	79,572	---	79,572	---	---
14	UH-60 BLACKHAWK A AND L MODELS.....	25	169,290	25	169,290	---	---
15	CH-47 HELICOPTER.....	8	140,290	8	130,951	---	-9,339
16	CH-47 HELICOPTER (AP-CY).....	---	18,186	---	46,186	---	+28,000
TOTAL, AIRCRAFT.....			2,868,207	2,860,714		-7,493	
-----							
MODIFICATION OF AIRCRAFT							
19	UNIVERSAL GROUND CONTROL EQUIPMENT.....	---	2,090	---	2,090	---	---
20	GRAY EAGLE MODS2.....	---	14,699	---	14,699	---	---
21	MULTI SENSOR ABN RECON (MIP).....	---	35,189	---	35,189	---	---
22	AH-64 MODS.....	---	58,172	---	58,172	---	---
23	CH-47 CARGO HELICOPTER MODS.....	---	11,785	---	11,785	---	---
24	GRCS SEMA MODS (MIP).....	---	5,677	---	5,677	---	---
25	ARL SEMA MODS (MIP).....	---	6,566	---	6,566	---	---

(DOLLARS IN THOUSANDS)

		BUDGET REQUEST		COMMITTEE RECOMMENDED		CHANGE FROM REQUEST	
		QTY	AMOUNT	QTY	AMOUNT	QTY	AMOUNT
26	EMARSS SEMA MODS (MIP).....	---	3,859	---	3,859	---	---
27	UTILITY/CARGO AIRPLANE MODS.....	---	15,476	---	13,476	---	-2,000
28	UTILITY HELICOPTER MODS.....	---	6,744	---	16,744	---	+10,000
29	NETWORK AND MISSION PLAN.....	---	105,442	---	98,226	---	-7,216
30	COMMS, NAV SURVEILLANCE.....	---	164,315	---	164,315	---	---
32	GATH ROLLUP.....	---	30,966	---	30,966	---	---
33	RQ-7 UAV MODS.....	---	8,983	---	8,983	---	---
34	UAS MODS.....	---	10,205	---	10,205	---	---
	TOTAL, MODIFICATION OF AIRCRAFT.....		480,168		480,952		+784
	SUPPORT EQUIPMENT AND FACILITIES						
	GROUND SUPPORT AVIONICS						
35	AIRCRAFT SURVIVABILITY EQUIPMENT.....	---	52,297	---	52,297	---	---
36	SURVIVABILITY CM.....	---	8,388	---	8,388	---	---
37	CMWS.....	---	13,999	---	13,999	---	---
38	COMMON INFRARED COUNTERMEASURES.....	---	168,784	---	168,784	---	---
	OTHER SUPPORT						
39	AVIONICS SUPPORT EQUIPMENT.....	---	1,777	---	1,777	---	---
40	COMMON GROUND EQUIPMENT.....	---	18,624	---	18,624	---	---
41	AIRCREW INTEGRATED SYSTEMS.....	---	48,255	---	48,255	---	---
42	AIR TRAFFIC CONTROL.....	---	32,738	---	32,738	---	---
44	LAUNCHER, 2.75 ROCKET.....	---	2,201	---	2,201	---	---
45	LAUNCHER GUIDED MISSILE: LONGBOW HELLFIRE XM2.....	9	991	9	991	---	---
	TOTAL, SUPPORT EQUIPMENT AND FACILITIES.....		348,054		348,054		---
	TOTAL, AIRCRAFT PROCUREMENT, ARMY.....		3,696,429		3,689,720		-6,709
			=====		=====		=====

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS  
[In thousands of dollars]

P-1		Budget Request	Committee Recommended	Change from Request
2	UTILITY F/W CARGO AIRCRAFT Undetermined need	16,000	0 -16,000	-16,000
4	RQ-11 (RAVEN) Unit cost growth	23,510	21,420 -2,090	-2,090
8	AH-64 APACHE BLOCK IIIA REMAN Unit cost growth	806,849	798,785 -8,064	-8,064
15	CH-47 HELICOPTER Unit cost growth	140,290	130,951 -9,339	-9,339
16	CH-47 HELICOPTER (AP-CY) Program increase	18,186	46,186 28,000	28,000
27	UTILITY/CARGO AIRPLANE MODS Unit cost discrepancy	15,476	13,476 -2,000	-2,000
28	UTILITY HELICOPTER MODS Program increase - enhanced ballistic armor protection system	6,744	16,744 10,000	10,000
29	NETWORK AND MISSION PLAN Integration cost increase Program management cost growth	105,442	98,226 -6,216 -1,000	-7,216



## CH-47F CHINOOK BLOCK II

The Committee continues to support Army efforts to deliver capability to the warfighter through the development and delivery of advanced aviation platforms and technology. The Committee previously appropriated CH-47 Block II funding based on the Chief of Staff of the Army's written certification of the program of record. The Committee is concerned that the Army is now reducing its support for the CH-47 Block II program which was determined to be necessary less than two years ago. This lack of acquisition discipline is of great concern to the Committee, and in this case, will have significant negative repercussions across multiple domains. The Committee directs the Secretary of the Army to restore funding for the CH-47F Block II program across the next future years defense program when the fiscal year 2021 budget request is submitted.

## MISSILE PROCUREMENT, ARMY

Fiscal year 2019 appropriation .....	\$3,145,256,000
Fiscal year 2020 budget request .....	— — —
Committee recommendation .....	3,218,272,000
Change from budget request .....	+3,218,272,000

The Committee recommends an appropriation of \$3,218,272,000 for Missile Procurement, Army which will provide the following program in fiscal year 2020:

(DOLLARS IN THOUSANDS)

		BUDGET REQUEST			COMMITTEE RECOMMENDED			CHANGE FROM REQUEST
		QTY	AMOUNT	QTY	AMOUNT	QTY	AMOUNT	
-----								
MISSILE PROCUREMENT, ARMY								
OTHER MISSILES								
SURFACE-TO-AIR MISSILE SYSTEM								
1	SYSTEM INTEGRATION AND TEST PROCUREMENT.....	---	---	---	113,857	---	+113,857	
2	M-SHORAD - PROCUREMENT.....	---	---	---	56,064	---	+56,064	
3	MSE MISSILE.....	---	---	---	698,603	---	+698,603	
4	INDIRECT FIRE PROTECTION CAPABILITY.....	---	---	---	178,300	---	+178,300	
6	HELLFIRE SYS SUMMARY.....	---	---	---	186,084	---	+186,084	
AIR-TO-SURFACE MISSILE SYSTEM								
7	JOINT AIR-TO-GROUND MSLS (JAGM) .....	---	---	---	199,295	---	+199,295	
ANTI-TANK/ASSAULT MISSILE SYSTEM								
8	JAVELIN (AAWS-M) SYSTEM SUMMARY.....	---	---	---	138,405	---	+138,405	
9	TOW 2 SYSTEM SUMMARY.....	---	---	---	110,040	---	+110,040	
10	TOW 2 SYSTEM SUMMARY (AP-CY).....	---	---	---	10,500	---	+10,500	
11	GUIDED MLRS ROCKET (GMLRS).....	---	---	---	767,213	---	+767,213	
12	MLRS REDUCED RANGE PRACTICE ROCKETS (RRPR).....	---	---	---	27,555	---	+27,555	
14	ARMY TACTICAL MSL SYS (ATACMS).....	---	---	---	184,842	---	+184,842	
TOTAL, OTHER MISSILES.....					2,670,758	---	+2,670,758	
MODIFICATION OF MISSILES								
MODIFICATIONS								
16	PATRIOT MODS.....	---	---	---	279,464	---	+279,464	
17	ATACMS MODS.....	---	---	---	80,320	---	+80,320	
19	STINGER MODS.....	---	---	---	81,615	---	+81,615	
20	AVENGER MODS.....	---	---	---	14,107	---	+14,107	
21	ITAS/TOW MODS.....	---	---	---	3,469	---	+3,469	
22	MLRS MODS.....	---	---	---	39,019	---	+39,019	
23	HIMARS MODIFICATIONS.....	---	---	---	12,483	---	+12,483	
TOTAL, MODIFICATION OF MISSILES.....					510,477	---	+510,477	

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST QTY	AMOUNT	COMMITTEE RECOMMENDED QTY	AMOUNT	CHANGE FROM REQUEST QTY	AMOUNT
-----						
SPARES AND REPAIR PARTS						
24 SPARES AND REPAIR PARTS.....	---	---	---	26,444	---	+26,444
-----						
SUPPORT EQUIPMENT AND FACILITIES						
25 AIR DEFENSE TARGETS.....	---	---	---	10,593	---	+10,593
-----						
TOTAL, SUPPORT EQUIPMENT AND FACILITIES.....		---		10,593		+10,593
-----						
TOTAL, MISSILE PROCUREMENT, ARMY.....		---		3,218,272		+3,218,272
	=====			=====	=====	=====

**EXPLANATION OF PROJECT LEVEL ADJUSTMENTS**  
[In thousands of dollars]

P-1		Budget Request	Committee Recommended	Change from Request
1	<b>SYSTEM INTEGRATION AND TEST PROCUREMENT</b>	0	113,857	113,857
	Transfer from title IX		113,857	
2	<b>M-SHORAD - PROCUREMENT</b>	0	56,064	56,064
	Transfer from title IX		103,800	
	Excess to need		-47,736	
3	<b>MSE MISSILE</b>	0	698,603	698,603
	Transfer from title IX		698,603	
4	<b>INDIRECT FIRE PROTECTION CAPABILITY</b>	0	178,300	178,300
	Transfer from title IX		9,337	
	Transfer from RDTE,A line 160		168,963	
6	<b>HELLFIRE SYS SUMMARY</b>	0	186,084	186,084
	Transfer from title IX		193,284	
	Unit cost growth		-3,200	
	Excess engineering and program management costs		-4,000	
7	<b>JOINT AIR-TO-GROUND MSLS (JAGM)</b>	0	199,295	199,295
	Transfer from title IX		233,353	
	Contract delays		-34,058	
8	<b>JAVELIN (AAWS-M) SYSTEM SUMMARY</b>	0	138,405	138,405
	Transfer from title IX		138,405	
9	<b>TOW 2 SYSTEM SUMMARY</b>	0	110,040	110,040
	Transfer from title IX		114,340	
	Unit cost growth		-4,300	
10	<b>TOW 2 SYSTEM SUMMARY (AP-CY)</b>	0	10,500	10,500
	Transfer from title IX		10,500	
11	<b>GUIDED MLRS ROCKET (GMLRS)</b>	0	767,213	767,213
	Transfer from title IX		797,213	
	Excess to need		-30,000	
12	<b>MLRS REDUCED RANGE PRACTICE ROCKETS (RRPR)</b>	0	27,555	27,555
	Transfer from title IX		27,555	
14	<b>ARMY TACTICAL MSL SYS (ATACMS)</b>	0	184,842	184,842
	Transfer from title IX		209,842	
	Excess to need		-25,000	
16	<b>PATRIOT MODS</b>	0	279,464	279,464
	Transfer from title IX		279,464	

P-1	Budget Request	Committee Recommended	Change from Request
17 ATACMS MODS	0	80,320	80,320
Transfer from title IX		85,320	
Unit cost growth		-5,000	
18 GMLRS MOD	0	0	0
Transfer from title IX		5,094	
Early to need		-5,094	
19 STINGER MODS	0	81,615	81,615
Transfer from title IX		81,615	
20 AVENGER MODS	0	14,107	14,107
Transfer from title IX		14,107	
21 ITAS/TOW MODS	0	3,469	3,469
Transfer from title IX		3,469	
22 MLRS MODS	0	39,019	39,019
Transfer from title IX		39,019	
23 HIMARS MODIFICATIONS	0	12,483	12,483
Transfer from title IX		12,483	
24 SPARES AND REPAIR PARTS	0	26,444	26,444
Transfer from title IX		26,444	
25 AIR DEFENSE TARGETS	0	10,593	10,593
Transfer from title IX		10,593	

## INDIRECT FIRE PROTECTION CAPABILITY AND IRON DOME

In October 2018, the Army provided a report to the congressional defense committees confirming that the Iron Dome system meets Army requirements, and specifically that the Iron Dome system provides the best value to the Army based on its schedule, cost per kill, magazine depth, and capability against specified threats. The Department of Defense subsequently requested a reprogramming and realignment of funds to procure two Iron Dome batteries, an additional quantity of Tamir missiles, and integration and interoperability efforts between Iron Dome and the Integrated Air and Missile Defense Battle Command System. The Committee supports the efforts to procure Iron Dome but remains concerned with funding of research for largely duplicative capabilities. Therefore, the Committee directs the Secretary of the Army to provide a report to the congressional defense committees not later than 30 days after the enactment of this Act on the development and acquisition plan for the program. The report shall identify the enduring solution for the Indirect Fire Protection Capability and the required development and procurement funding profile required to remain in compliance with the National Defense Authorization Act for Fiscal Year 2019.

## PROCUREMENT OF WEAPONS AND TRACKED COMBAT VEHICLES, ARMY

Fiscal year 2019 appropriation .....	\$4,486,402,000
Fiscal year 2020 budget request .....	4,715,566,000
Committee recommendation .....	4,849,373,000
Change from budget request .....	+133,807,000

The Committee recommends an appropriation of \$4,849,373,000 for Procurement of Weapons and Tracked Combat Vehicles, Army which will provide the following program in fiscal year 2020:

(DOLLARS IN THOUSANDS)

		BUDGET REQUEST		COMMITTEE RECOMMENDED		CHANGE FROM REQUEST	
		QTY	AMOUNT	QTY	AMOUNT	QTY	AMOUNT
PROCUREMENT OF WEAPONS AND TRACKED COMBAT VEHICLES (W&TCV), ARMY							
2	TRACKED COMBAT VEHICLES ARMORED MULTI PURPOSE VEHICLE (AMPV).....	65	264,040	65	259,040	---	-5,000
3	MODIFICATION OF TRACKED COMBAT VEHICLES STRYKER (MOD).....	---	144,387	---	393,587	---	+249,200
4	STRYKER UPGRADE.....	152	550,000	152	521,400	---	-28,600
5	BRADLEY PROGRAM (MOD).....	---	638,781	---	573,191	---	-65,590
6	M109 FOV MODIFICATIONS.....	---	25,756	---	25,756	---	---
7	PALADIN PIPM MOD IN SERVICE.....	53	553,425	53	553,425	---	---
9	ASSAULT BRIDGE (MOD).....	---	2,821	---	2,821	---	---
10	ASSAULT BREACHER VEHICLE.....	6	31,697	6	31,697	---	---
11	M88 FOV MODS.....	---	4,500	---	4,500	---	---
12	JOINT ASSAULT BRIDGE.....	44	205,517	44	205,517	---	---
13	M1 ABRAMS TANK (MOD).....	---	348,800	---	340,192	---	-8,608
14	ABRAMS UPGRADE PROGRAM.....	165	1,752,784	165	1,746,007	---	-6,777
TOTAL, TRACKED COMBAT VEHICLES.....			4,522,508		4,657,133		+134,625
WEAPONS AND OTHER COMBAT VEHICLES							
16	MULTI-ROLE ANTI-ARMOR ANTI-PERSONNEL WEAPON.....	---	19,420	---	19,420	---	---
17	GUN AUTOMATIC 30MM M230.....	---	20,000	---	17,242	---	-2,758
19	MORTAR SYSTEMS.....	---	14,907	---	14,907	---	---
20	XM320 GRENADE LAUNCHER MODULE (GLM).....	---	191	---	191	---	---
21	PRECISION SNIPER RIFLE.....	---	7,977	---	7,977	---	---
22	COMPACT SEMI-AUTOMATIC SNIPER SYSTEM.....	---	9,860	---	9,860	---	---
23	CARBINE.....	---	30,331	---	30,331	---	---
24	SMALL ARMS - FIRE CONTROL.....	---	8,060	---	---	---	-8,060
25	COMMON REMOTELY OPERATED WEAPONS STATION.....	---	24,007	---	24,007	---	---
26	MODULAR HANDGUN SYSTEM.....	---	6,174	---	6,174	---	---

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST QTY	AMOUNT	COMMITTEE RECOMMENDED QTY	AMOUNT	CHANGE FROM REQUEST QTY	AMOUNT
MOD OF WEAPONS AND OTHER COMBAT VEH						
28 MK-19 GRENADE MACHINE GUN MODS.....	---	3,737	---	3,737	---	---
29 M777 MODS.....	---	2,367	---	2,367	---	---
30 M4 CARBINE MODS.....	---	17,595	---	17,595	---	---
33 M240 MEDIUM MACHINE GUN MODS.....	---	8,000	---	8,000	---	---
34 SNIPER RIFLES MODIFICATIONS.....	---	2,426	---	2,426	---	---
35 M119 MODIFICATIONS.....	---	6,269	---	16,269	---	+10,000
36 MORTAR MODIFICATION.....	---	1,693	---	1,693	---	---
37 MODIFICATIONS LESS THAN \$5.0M (WOCV-WTCV).....	---	4,327	---	4,327	---	---
SUPPORT EQUIPMENT AND FACILITIES						
38 ITEMS LESS THAN \$5.0M (WOCV-WTCV).....	---	3,066	---	3,066	---	---
39 PRODUCTION BASE SUPPORT (WOCV-WTCV).....	---	2,651	---	2,651	---	---
TOTAL, WEAPONS AND OTHER COMBAT VEHICLES.....		193,058		192,240		-818
TOTAL, PROCUREMENT OF W&TCV, ARMY.....		4,715,566		4,849,373		+133,807



**EXPLANATION OF PROJECT LEVEL ADJUSTMENTS**  
[In thousands of dollars]

P-1		Budget Request	Committee Recommended	Change from Request
2	<b>ARMORED MULTI PURPOSE VEHICLE (AMPV)</b>	264,040	259,040	-5,000
	Unit cost discrepancy		-5,000	
3	<b>STRYKER (MOD)</b>	144,387	393,587	249,200
	Program increase - 30mm cannon upgrade		249,200	
4	<b>STRYKER UPGRADE</b>	550,000	521,400	-28,600
	Unit cost growth		-28,600	
5	<b>BRADLEY PROGRAM (MOD)</b>	638,781	573,191	-65,590
	A4 modification unit cost growth		-25,590	
	Underexecution		-40,000	
13	<b>M1 ABRAMS TANK (MOD)</b>	348,800	340,192	-8,608
	Test support excess to need		-8,608	
14	<b>ABRAMS UPGRADE PROGRAM</b>	1,752,784	1,746,007	-6,777
	Unit cost growth		-6,777	
17	<b>GUN AUTOMATIC 30MM M230</b>	20,000	17,242	-2,758
	CLS costs excess to need		-2,758	
24	<b>SMALL ARMS - FIRE CONTROL</b>	8,060	0	-8,060
	Early to need		-8,060	
35	<b>M119 MODIFICATIONS</b>	6,269	16,269	10,000
	Program increase - self-propelled 105mm howitzers		10,000	

## PROCUREMENT OF AMMUNITION, ARMY

Fiscal year 2019 appropriation .....	\$2,276,330,000
Fiscal year 2020 budget request .....	— —
Committee recommendation .....	2,583,895,000
Change from budget request .....	+2,583,895,000

The Committee recommends an appropriation of \$2,583,895,000 for Procurement of Ammunition, Army which will provide the following program in fiscal year 2020:

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST QTY	AMOUNT	COMMITTEE RECOMMENDED QTY	AMOUNT	CHANGE FROM REQUEST QTY	AMOUNT
PROCUREMENT OF AMMUNITION, ARMY						
AMMUNITION						
SMALL/MEDIUM CAL AMMUNITION						
1	CTG, 5.56MM, ALL TYPES.....	---	---	64,349	---	+64,349
2	CTG, 7.62MM, ALL TYPES.....	---	---	112,003	---	+112,003
3	CTG, HANDGUN, ALL TYPES.....	---	---	17,807	---	+17,807
4	CTG, .50 CAL, ALL TYPES.....	---	---	63,966	---	+63,966
5	CTG, 20MM, ALL TYPES.....	---	---	27,432	---	+27,432
6	CTG, 25MM, ALL TYPES.....	---	---	8,990	---	+8,990
7	CTG, 30MM, ALL TYPES.....	---	---	67,679	---	+67,679
8	CTG, 40MM, ALL TYPES.....	---	---	103,952	---	+103,952
MORTAR AMMUNITION						
9	60MM MORTAR, ALL TYPES.....	---	---	49,580	---	+49,580
10	81MM MORTAR, ALL TYPES.....	---	---	44,603	---	+44,603
11	120MM MORTAR, ALL TYPES.....	---	---	123,110	---	+123,110
TANK AMMUNITION						
12	CTG TANK 105MM AND 120MM: ALL TYPES.....	---	---	120,464	---	+120,464
ARTILLERY AMMUNITION						
13	CTG, ARTY, 75MM AND 105MM: ALL TYPES.....	---	---	44,675	---	+44,675
14	ARTILLERY PROJECTILE, 155MM, ALL TYPES.....	---	---	266,037	---	+266,037
15	PROJ 155MM EXTENDED RANGE XM982.....	---	---	57,434	---	+57,434
16	ARTILLERY PROPELLANTS, FUZES AND PRIMERS, ALL TYPES...	---	---	265,322	---	+265,322
MINES						
17	MINES AND CLEARING CHARGES, ALL TYPES.....	---	---	39,239	---	+39,239
ROCKETS						
18	SHOULDER LAUNCHED MUNITIONS, ALL TYPES.....	---	---	74,878	---	+74,878
19	ROCKET, HYDRA 70, ALL TYPES.....	---	---	173,194	---	+173,194

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST QTY	AMOUNT	COMMITTEE RECOMMENDED QTY	AMOUNT	CHANGE FROM REQUEST QTY	AMOUNT
OTHER AMMUNITION						
20 CAD/PAD ALL TYPES.....	---	---	---	7,595	---	+7,595
21 DEMOLITION MUNITIONS, ALL TYPES.....	---	---	---	51,651	---	+51,651
22 GRENADES, ALL TYPES.....	---	---	---	40,592	---	+40,592
23 SIGNALS, ALL TYPES.....	---	---	---	18,609	---	+18,609
24 SIMULATORS, ALL TYPES.....	---	---	---	16,054	---	+16,054
MISCELLANEOUS						
25 AMMO COMPONENTS, ALL TYPES.....	---	---	---	5,261	---	+5,261
26 NON-LETHAL AMMUNITION, ALL TYPES.....	---	---	---	715	---	+715
27 ITEMS LESS THAN \$5 MILLION.....	---	---	---	9,213	---	+9,213
28 AMMUNITION PECULIAR EQUIPMENT.....	---	---	---	10,044	---	+10,044
29 FIRST DESTINATION TRANSPORTATION (AMMO).....	---	---	---	18,492	---	+18,492
30 CLOSEOUT LIABILITIES.....	---	---	---	99	---	+99
TOTAL, AMMUNITION.....	---	---	---	1,903,039	---	+1,903,039
AMMUNITION PRODUCTION BASE SUPPORT						
31 PRODUCTION BASE SUPPORT PROVISION OF INDUSTRIAL FACILITIES.....	---	---	---	474,511	---	+474,511
32 CONVENTIONAL MUNITIONS DEMILITARIZATION, ALL.....	---	---	---	202,512	---	+202,512
33 ARMS INITIATIVE.....	---	---	---	3,833	---	+3,833
TOTAL, AMMUNITION PRODUCTION BASE SUPPORT.....	---	---	---	680,856	---	+680,856
TOTAL, PROCUREMENT OF AMMUNITION, ARMY.....	---	---	---	2,583,895	---	+2,583,895
=====				=====		=====

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS  
[In thousands of dollars]

P-1	Budget Request	Committee Recommended	Change from Request
1 CTG, 5.56MM, ALL TYPES	0	64,349	64,349
Transfer from title IX		68,949	
Unit cost growth		-4,600	
2 CTG, 7.62MM, ALL TYPES	0	112,003	112,003
Transfer from title IX		114,228	
Unit cost growth		-2,225	
3 CTG, HANDGUN, ALL TYPES	0	17,807	17,807
Transfer from title IX		17,807	
4 CTG, .50 CAL, ALL TYPES	0	63,966	63,966
Transfer from title IX		63,966	
5 CTG, 20MM, ALL TYPES	0	27,432	27,432
Transfer from title IX		35,920	
Unit cost growth		-8,488	
6 CTG, 25MM, ALL TYPES	0	8,990	8,990
Transfer from title IX		8,990	
7 CTG, 30MM, ALL TYPES	0	67,679	67,679
Transfer from title IX		68,813	
PABM acceptance testing previously funded		-1,134	
8 CTG, 40MM, ALL TYPES	0	103,952	103,952
Transfer from title IX		103,952	
9 60MM MORTAR, ALL TYPES	0	49,580	49,580
Transfer from title IX		50,580	
Unit cost discrepancies		-1,000	
10 81MM MORTAR, ALL TYPES	0	44,603	44,603
Transfer from title IX		59,373	
Schedule delays		-14,770	
11 120MM MORTAR, ALL TYPES	0	123,110	123,110
Transfer from title IX		125,452	
Unit cost growth		-2,342	
12 CTG TANK 105MM AND 120MM: ALL TYPES	0	120,464	120,464
Transfer from title IX		171,284	
Schedule delays		-50,820	
13 CTG, ARTY, 75MM AND 105MM: ALL TYPES	0	44,675	44,675
Transfer from title IX		44,675	
14 ARTILLERY PROJECTILE, 155MM, ALL TYPES	0	266,037	266,037
Transfer from title IX		266,037	

P-1	Budget Request	Committee Recommended	Change from Request
15 PROJ 155MM EXTENDED RANGE XM982	0	57,434	57,434
Transfer from title IX		57,434	
ARTILLERY PROPELLANTS, FUZES AND PRIMERS, ALL			
16 TYPES	0	265,322	265,322
Transfer from title IX		271,602	
PGK unit cost growth		-3,580	
M782 unjustified product improvements		-2,700	
17 MINES AND CLEARING CHARGES, ALL TYPES	0	39,239	39,239
Transfer from title IX		55,433	
Contract award delays		-16,194	
18 SHOULDER LAUNCHED MUNITIONS, ALL TYPES	0	74,878	74,878
Transfer from title IX		74,878	
19 ROCKET, HYDRA 70, ALL TYPES	0	173,194	173,194
Transfer from title IX		175,994	
Program increase - AT4CS tandem warhead		7,200	
Excess support costs		-10,000	
20 CAD/PAD ALL TYPES	0	7,595	7,595
Transfer from title IX		7,595	
21 DEMOLITION MUNITIONS, ALL TYPES	0	51,651	51,651
Transfer from title IX		51,651	
22 GRENADES, ALL TYPES	0	40,592	40,592
Transfer from title IX		40,592	
23 SIGNALS, ALL TYPES	0	18,609	18,609
Transfer from title IX		18,609	
24 SIMULATORS, ALL TYPES	0	16,054	16,054
Transfer from title IX		16,054	
25 AMMO COMPONENTS, ALL TYPES	0	5,261	5,261
Transfer from title IX		5,261	
26 NON-LETHAL AMMUNITION, ALL TYPES	0	715	715
Transfer from title IX		715	
27 ITEMS LESS THAN \$5 MILLION	0	9,213	9,213
Transfer from title IX		9,213	
28 AMMUNITION PECULIAR EQUIPMENT	0	10,044	10,044
Transfer from title IX		10,044	
29 FIRST DESTINATION TRANSPORTATION (AMMO)	0	18,492	18,492
Transfer from title IX		18,492	
30 CLOSEOUT LIABILITIES	0	99	99
Transfer from title IX		99	

P-1	Budget Request	Committee Recommended	Change from Request
31 INDUSTRIAL FACILITIES	0	474,511	474,511
Transfer from title IX		474,511	
32 CONVENTIONAL MUNITIONS DEMILITARIZATION	0	202,512	202,512
Transfer from title IX		202,512	
33 ARMS INITIATIVE	0	3,833	3,833
Transfer from title IX		3,833	

## OTHER PROCUREMENT, ARMY

Fiscal year 2019 appropriation .....	\$7,844,691,000
Fiscal year 2020 budget request .....	7,443,101,000
Committee recommendation .....	7,583,678,000
Change from budget request .....	+140,577,000

The Committee recommends an appropriation of \$7,583,678,000 for Other Procurement, Army which will provide the following program in fiscal year 2020:



(DOLLARS IN THOUSANDS)

		BUDGET REQUEST		COMMITTEE RECOMMENDED		CHANGE FROM REQUEST	
		QTY	AMOUNT	QTY	AMOUNT	QTY	AMOUNT
-----							
OTHER PROCUREMENT, ARMY							
TACTICAL AND SUPPORT VEHICLES							
TACTICAL VEHICLES							
1	TACTICAL TRAILERS/DOLLY SETS.....	---	12,993	---	12,993	---	---
2	SEMITRAILERS, FLATBED:.....	---	102,386	---	102,386	---	---
3	HIGH MOBILITY MULTI-PURPOSE WHEELED VEHICLE (HMMWV)...	---	127,271	---	127,271	---	---
4	GROUND MOBILITY VEHICLES (GMV).....	---	37,038	---	34,776	---	-2,262
5	ARNG HMMWV MODERNIZATION PROGRAM.....	---	---	---	100,000	---	+100,000
6	JOINT LIGHT TACTICAL VEHICLE.....	2,530	996,007	2,530	976,507	---	-19,500
7	TRUCK, DUMP, 20t (CCE).....	---	10,838	---	10,838	---	---
8	FAMILY OF MEDIUM TACTICAL VEH (FMTV).....	---	72,057	---	138,057	---	+66,000
9	FIRETRUCKS & ASSOCIATED FIREFIGHTING EQUIPMEN.....	---	28,048	---	28,048	---	---
10	FAMILY OF HEAVY TACTICAL VEHICLES (FHTV).....	---	9,969	---	9,969	---	---
11	PLS ESP.....	---	6,280	---	6,280	---	---
12	HEAVY EXPANDED MOBILE TACTICAL TRUCK EXT SERV.....	---	30,841	---	131,841	---	+101,000
13	HMMWV RECAPITALIZATION PROGRAM.....	---	5,734	---	30,734	---	+25,000
14	TACTICAL WHEELED VEHICLE PROTECTION KITS.....	---	45,113	---	45,113	---	---
15	MODIFICATION OF IN SVC EQUIP.....	---	58,946	---	58,946	---	---
NON-TACTICAL VEHICLES							
17	HEAVY ARMORED SEDAN.....	---	791	---	791	---	---
18	PASSENGER CARRYING VEHICLES.....	---	1,416	---	1,416	---	---
19	NONTACTICAL VEHICLES, OTHER.....	---	29,891	---	29,891	---	---
TOTAL, TACTICAL AND SUPPORT VEHICLES.....			1,575,619		1,845,857		+270,238
-----							
COMMUNICATIONS AND ELECTRONICS EQUIPMENT							
COMM - JOINT COMMUNICATIONS							
21	SIGNAL MODERNIZATION PROGRAM.....	---	153,933	---	148,933	---	-5,000
22	TACTICAL NETWORK TECHNOLOGY MOD IN SERVICE.....	---	387,439	---	458,439	---	+71,000
23	SITUATION INFORMATION TRANSPORT.....	---	46,693	---	46,693	---	---
25	JCSE EQUIPMENT (USREDCOM).....	---	5,075	---	5,075	---	---
COMM - SATELLITE COMMUNICATIONS							
28	DEFENSE ENTERPRISE WIDEBAND SATCOM SYSTEMS.....	---	101,189	---	97,399	---	-3,790
29	TRANSPORTABLE TACTICAL COMMAND COMMUNICATIONS.....	---	77,141	---	77,141	---	---
30	SHF TERM.....	---	16,054	---	15,054	---	-1,000
31	ASSURED POSITIONING, NAVIGATION AND TIMING.....	---	41,074	---	10,314	---	-30,760
32	SMART-T (SPACE).....	---	10,515	---	10,515	---	---
33	GLOBAL BRDCST SVC - GBS.....	---	11,800	---	11,800	---	---

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST QTY	AMOUNT	COMMITTEE RECOMMENDED QTY	AMOUNT	CHANGE FROM REQUEST QTY	AMOUNT
34 ENROUTE MISSION COMMAND (EMC).....	---	8,609	---	8,609	---	---
COMM - C3 SYSTEM						
38 COE TACTICAL SERVER INFRASTRUCTURE (TSI).....	---	77,533	---	77,533	---	---
COMM - COMBAT COMMUNICATIONS						
39 HANDHELD MANPACK SMALL FORM FIT (HMS).....	---	468,026	---	468,026	---	---
40 RADIO TERMINAL SET, MIDS LVT(2).....	---	23,778	---	23,778	---	---
44 SPIDER FAMILY OF NETWORKED MUNITIONS INCREASE.....	---	10,930	---	10,930	---	---
46 UNIFIED COMMAND SUITE.....	---	9,291	---	8,291	---	-1,000
47 COTS COMMUNICATIONS EQUIPMENT.....	---	55,630	---	55,630	---	---
48 FAMILY OF MED COMM FOR COMBAT CASUALTY CARE.....	---	16,590	---	16,590	---	---
49 ARMY COMMUNICATIONS & ELECTRONICS.....	---	43,457	---	43,457	---	---
COMM - INTELLIGENCE COMM						
50 CI AUTOMATION ARCHITECTURE (MIP).....	---	10,470	---	10,470	---	---
51 DEFENSE MILITARY DECEPTION INITIATIVE.....	---	3,704	---	3,704	---	---
INFORMATION SECURITY						
53 FAMILY OF BIOMETRICS.....	---	1,000	---	1,000	---	---
54 INFORMATION SYSTEM SECURITY PROGRAM-ISSP.....	---	3,600	---	3,600	---	---
55 COMMUNICATIONS SECURITY (COMSEC).....	---	160,899	---	141,510	---	-19,389
56 DEFENSIVE CYBER OPERATIONS.....	---	61,962	---	61,962	---	---
57 INSIDER THREAT PROGRAM - UNIT ACTIVITY MONITOR.....	---	756	---	756	---	---
58 PERSISTENT CYBER TRAINING ENVIRONMENT.....	---	3,000	---	3,000	---	---
COMM - LONG HAUL COMMUNICATIONS						
59 BASE SUPPORT COMMUNICATIONS.....	---	31,770	---	31,770	---	---
COMM - BASE COMMUNICATIONS						
60 INFORMATION SYSTEMS.....	---	159,009	---	159,009	---	---
61 EMERGENCY MANAGEMENT MODERNIZATION PROGRAM.....	---	4,854	---	4,854	---	---
62 HOME STATION MISSION COMMAND CENTERS (MSMCC).....	---	47,174	---	47,174	---	---
63 INSTALLATION INFO INFRASTRUCTURE MOD PROGRAM.....	---	297,994	---	265,494	---	-32,500

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST QTY	AMOUNT	COMMITTEE RECOMMENDED QTY	AMOUNT	CHANGE FROM REQUEST QTY	AMOUNT
ELECT EQUIP						
ELECT EQUIP - TACT INT REL ACT (TIARA)						
66 JTT/CIBS-M (MIP).....	---	7,686	---	7,686	---	---
68 DCGS-A (MIP).....	---	180,350	---	180,350	---	---
70 TROJAN (MIP).....	---	17,368	---	17,368	---	---
71 MOD OF IN-SVC EQUIP (INTEL SPT) (MIP).....	---	59,052	---	59,052	---	---
ELECT EQUIP - ELECTRONIC WARFARE (EW)						
77 LIGHTWEIGHT COUNTER MORTAR RADAR.....	---	5,400	---	5,400	---	---
78 EW PLANNING AND MANAGEMENT TOOLS.....	---	7,568	---	7,568	---	---
79 AIR VIGILANCE (AV).....	---	8,953	---	8,953	---	---
81 MULTI-FUNCTION ELECTRONIC WARFARE (MFEW) SYST.....	---	6,420	---	6,420	---	---
83 COUNTERINTELLIGENCE/SECURITY COUNTERMEASURES.....	---	501	---	501	---	---
84 CI MODERNIZATION (MIP).....	---	121	---	121	---	---
ELECT EQUIP - TACTICAL SURV. (TAC SURV)						
85 SENTINEL MODS.....	---	115,210	---	113,910	---	-1,300
86 NIGHT VISION DEVICES.....	---	236,604	---	160,379	---	-76,225
88 SMALL TACTICAL OPTICAL RIFLE MOUNTED MLRF.....	---	22,623	---	22,623	---	---
90 INDIRECT FIRE PROTECTION FAMILY OF SYSTEMS.....	---	29,127	---	29,127	---	---
91 FAMILY OF WEAPON SIGHTS (FWS).....	---	120,883	---	81,541	---	-39,342
94 JOINT BATTLE COMMAND - PLATFORM (JBC-P).....	---	265,667	---	265,667	---	---
95 JOINT EFFECTS TARGETING SYSTEM (JETS).....	---	69,720	---	44,720	---	-25,000
96 MOD OF IN-SERVICE EQUIPMENT (LLDR).....	---	6,044	---	6,044	---	---
97 COMPUTER BALLISTICS: LHMBC XM32.....	---	3,268	---	3,268	---	---
98 MORTAR FIRE CONTROL SYSTEM.....	---	13,199	---	13,199	---	---
99 MORTAR FIRE CONTROL SYSTEM MODIFICATIONS.....	---	10,000	---	10,000	---	---
100 COUNTERFIRE RADARS.....	---	16,416	---	16,416	---	---

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST QTY	AMOUNT	COMMITTEE RECOMMENDED QTY	AMOUNT	CHANGE FROM REQUEST QTY	AMOUNT
ELECT EQUIP - TACTICAL C2 SYSTEMS						
102 FIRE SUPPORT C2 FAMILY.....	---	13,197	---	13,197	---	---
103 AIR & MSL DEFENSE PLANNING & CONTROL SYS (AMD).....	---	24,730	---	24,730	---	---
104 IAMD BATTLE COMMAND SYSTEM.....	---	29,629	---	29,629	---	---
105 LIFE CYCLE SOFTWARE SUPPORT (LCSS).....	---	6,774	---	6,774	---	---
106 NETWORK MANAGEMENT INITIALIZATION AND SERVICE.....	---	24,448	---	24,448	---	---
107 MANEUVER CONTROL SYSTEM (MCS).....	---	260	---	260	---	---
108 GLOBAL COMBAT SUPPORT SYSTEM-ARMY.....	---	17,962	---	17,962	---	---
109 INTEGRATED PERSONNEL AND PAY SYSTEM-ARMY.....	---	18,674	---	18,674	---	---
110 RECONNAISSANCE AND SURVEYING INSTRUMENT SET.....	---	11,000	---	11,000	---	---
111 MOD OF IN-SERVICE EQUIPMENT (ENFIRE).....	---	7,317	---	15,317	---	+8,000
ELECT EQUIP - AUTOMATION						
112 ARMY TRAINING MODERNIZATION.....	---	14,578	---	14,578	---	---
113 AUTOMATED DATA PROCESSING EQUIPMENT.....	---	139,342	---	139,342	---	---
114 GENERAL FUND ENTERPRISE BUSINESS SYSTEM.....	---	15,802	---	15,802	---	---
115 HIGH PERF COMPUTING MOD PROGRAM.....	---	67,610	---	67,610	---	---
116 CONTRACT WRITING SYSTEM.....	---	15,000	---	15,000	---	---
117 CSS COMMUNICATIONS.....	---	24,700	---	24,700	---	---
118 RESERVE COMPONENT AUTOMATION SYS (RCAS).....	---	27,879	---	27,879	---	---
ELECT EQUIP - AUDIO VISUAL SYS (A/V)						
120 ITEMS LESS THAN \$5M (SURVEYING EQUIPMENT).....	---	5,000	---	5,000	---	---
ELECT EQUIP - SUPPORT						
122 BCT EMERGING TECHNOLOGIES.....	---	22,302	---	22,302	---	---
TOTAL, COMMUNICATIONS AND ELECTRONICS EQUIPMENT.....		4,039,333		3,883,027		-156,306

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST QTY	AMOUNT	COMMITTEE RECOMMENDED QTY	AMOUNT	CHANGE FROM REQUEST QTY	AMOUNT
OTHER SUPPORT EQUIPMENT						
CHEMICAL DEFENSIVE EQUIPMENT						
124 FAMILY OF NON-LETHAL EQUIPMENT (FNLE).....	---	---	---	3,000	---	+3,000
126 CBRN DEFENSE.....	---	25,828	---	25,828	---	---
127 SMOKE & OBSCURANT FAMILY: SOF (NON AAO ITEM).....	---	5,050	---	5,050	---	---
BRIDGING EQUIPMENT						
128 TACTICAL BRIDGING.....	---	59,821	---	57,821	---	-2,000
129 TACTICAL BRIDGE, FLOAT-RIBBON.....	---	57,661	---	57,661	---	---
130 BRIDGE SUPPLEMENTAL SET.....	---	17,966	---	17,966	---	---
131 COMMON BRIDGE TRANSPORTER RECAP.....	---	43,155	---	43,155	---	---
ENGINEER (NON-CONSTRUCTION) EQUIPMENT						
132 HANDHELD STANDOFF MINEFIELD DETECTION SYS-HST.....	---	7,570	---	7,570	---	---
133 GROUND STANDOFF MINE DETECTION SYSTEM (GSTAMIDS).....	---	37,025	---	37,025	---	---
135 HUSKY MOUNTED DETECTION SYSTEM (HMDS).....	---	83,082	---	47,517	---	-35,565
136 ROBOTIC COMBAT SUPPORT SYSTEM.....	---	2,000	---	2,000	---	---
137 EOD ROBOTICS SYSTEMS RECAPITALIZATION.....	---	23,115	---	23,115	---	---
138 ROBOTICS AND APPLIQUE SYSTEMS.....	---	101,056	---	101,056	---	---
140 RENDER SAFE SETS KITS OUTFITS.....	---	18,684	---	18,684	---	---
142 FAMILY OF BOATS AND MOTORS.....	---	8,245	---	5,745	---	-2,500
COMBAT SERVICE SUPPORT EQUIPMENT						
143 HEATERS AND ECU'S.....	---	7,336	---	7,336	---	---
145 PERSONNEL RECOVERY SUPPORT SYSTEM (PRSS).....	---	4,281	---	4,281	---	---
146 GROUND SOLDIER SYSTEM.....	---	111,955	---	111,955	---	---
147 MOBILE SOLDIER POWER.....	---	31,364	---	29,364	---	-2,000
149 FIELD FEEDING EQUIPMENT.....	---	1,673	---	1,673	---	---
150 CARGO AERIAL DEL & PERSONNEL PARACHUTE SYSTEM.....	---	43,622	---	43,622	---	---
151 FAMILY OF ENGR COMBAT AND CONSTRUCTION SETS.....	---	11,451	---	11,451	---	---
152 ITEMS LESS THAN \$5M (ENG SPT).....	---	5,167	---	5,167	---	---

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST QTY	AMOUNT	COMMITTEE RECOMMENDED QTY	AMOUNT	CHANGE FROM REQUEST QTY	AMOUNT
PETROLEUM EQUIPMENT						
154 DISTRIBUTION SYSTEMS, PETROLEUM & WATER.....	---	74,867	---	74,867	---	---
MEDICAL EQUIPMENT						
155 COMBAT SUPPORT MEDICAL.....	---	68,225	---	78,225	---	+10,000
MAINTENANCE EQUIPMENT						
156 MOBILE MAINTENANCE EQUIPMENT SYSTEMS.....	---	55,053	---	55,053	---	---
157 ITEMS LESS THAN \$5.0M (MAINT EQ).....	---	5,608	---	5,608	---	---
CONSTRUCTION EQUIPMENT						
161 HYDRAULIC EXCAVATOR.....	---	500	---	500	---	---
162 TRACTOR, FULL TRACKED.....	---	4,835	---	4,835	---	---
163 ALL TERRAIN CRANES.....	---	23,936	---	23,936	---	---
164 HIGH MOBILITY ENGINEER EXCAVATOR (HMEE) FOS.....	---	27,188	---	27,188	---	---
166 CONST EQUIP ESP.....	---	34,790	---	34,790	---	---
167 ITEMS LESS THAN \$5.0M (CONST EQUIP).....	---	4,381	---	4,381	---	---
RAIL FLOAT CONTAINERIZATION EQUIPMENT						
168 ARMY WATERCRAFT ESP.....	---	35,194	---	35,194	---	---
169 MANEUVER SUPPORT VESSEL (MSV).....	---	14,185	---	14,185	---	---
170 ITEMS LESS THAN \$5.0M (FLOAT/RAIL).....	---	6,920	---	6,920	---	---
GENERATORS						
171 GENERATORS AND ASSOCIATED EQUIPMENT.....	---	58,566	---	113,476	---	+54,910
172 TACTICAL ELECTRIC POWER RECAPITALIZATION.....	---	14,814	---	14,814	---	---
MATERIAL HANDLING EQUIPMENT						
173 FAMILY OF FORKLIFTS.....	---	14,864	---	14,864	---	---
TRAINING EQUIPMENT						
174 COMBAT TRAINING CENTERS SUPPORT.....	---	123,411	---	123,411	---	---
175 TRAINING DEVICES, NONSYSTEM.....	---	220,707	---	220,707	---	---
176 SYNTHETIC TRAINING ENVIRONMENT (STE).....	---	20,749	---	20,749	---	---
178 AVIATION COMBINED ARMS TACTICAL TRAINER (AVCA).....	---	4,840	---	4,840	---	---
179 GAMING TECHNOLOGY IN SUPPORT OF ARMY TRAINING.....	---	15,463	---	15,463	---	---
TEST MEASURE AND DIG EQUIPMENT (TMD)						
180 CALIBRATION SETS EQUIPMENT.....	---	3,030	---	3,030	---	---
181 INTEGRATED FAMILY OF TEST EQUIPMENT (IFTE).....	---	76,980	---	76,980	---	---
182 TEST EQUIPMENT MODERNIZATION (TEMOD).....	---	16,415	---	13,415	---	-3,000
OTHER SUPPORT EQUIPMENT						
184 RAPID EQUIPPING SOLDIER SUPPORT EQUIPMENT.....	---	9,877	---	9,877	---	---
185 PHYSICAL SECURITY SYSTEMS (OPA3).....	---	82,158	---	82,158	---	---
186 BASE LEVEL COM'L EQUIPMENT.....	---	15,340	---	15,340	---	---

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST QTY	AMOUNT	COMMITTEE RECOMMENDED QTY	AMOUNT	CHANGE FROM REQUEST QTY	AMOUNT
187 MODIFICATION OF IN-SVC EQUIPMENT (OPA-3).....	---	50,458	---	60,458	---	+10,000
189 BUILDING, PRE-FAB. RELOCATABLE.....	---	14,400	---	---	---	-14,400
190 SPECIAL EQUIPMENT FOR USER TESTING.....	---	9,821	---	9,821	---	---
TOTAL, OTHER SUPPORT EQUIPMENT.....		1,814,682		1,833,127		+18,445
SPARE AND REPAIR PARTS						
192 INITIAL SPARES - C&E.....	---	9,757	---	9,757	---	---
999 CLASSIFIED PROGRAMS.....	---	3,710	---	11,910	---	+8,200
TOTAL, OTHER PROCUREMENT, ARMY.....		7,443,101		7,583,678		+140,577

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS  
[In thousands of dollars]

P-1		Budget Request	Committee Recommended	Change from Request
4	GROUND MOBILITY VEHICLES (GMV) Unit cost growth	37,038	34,776 -2,262	-2,262
5	ARNG HMMWV MODERNIZATION PROGRAM Program increase	0	100,000 100,000	100,000
6	JOINT LIGHT TACTICAL VEHICLE Excess training growth Army requested transfer to RDTE, A line 169	996,007	976,507 -15,000 -4,500	-19,500
8	FAMILY OF MEDIUM TACTICAL VEH (FMTV) Program increase	72,057	138,057 66,000	66,000
12	HEAVY EXPANDED MOBILE TACTICAL TRUCK EXT SERV Program increase	30,841	131,841 101,000	101,000
13	HMMWV RECAPITALIZATION PROGRAM Program increase	5,734	30,734 25,000	25,000
21	SIGNAL MODERNIZATION PROGRAM Excess funding for spares	153,933	148,933 -5,000	-5,000
22	TACTICAL NETWORK TECHNOLOGY MOD IN SERVICE Program increase - integrated tactical network	387,439	458,439 71,000	71,000
28	DEFENSE ENTERPRISE WIDEBAND SATCOM SYSTEMS Technology refresh excess growth Excess to need	101,189	97,399 -2,790 -1,000	-3,790
30	SHF TERM Historical underexecution	16,054	15,054 -1,000	-1,000
31	ASSURED POSITIONING, NAVIGATION AND TIMING Mounted Hub A-PNT early to need Pseudolite no longer needed	41,074	10,314 -28,760 -2,000	-30,760
39	HANDHELD MANPACK SMALL FORM FIT (HMS) Excess to need Program increase - SFAB refresh	468,026	468,026 -20,000 20,000	0
46	UNIFIED COMMAND SUITE Excess program management costs	9,291	8,291 -1,000	-1,000
55	COMMUNICATIONS SECURITY (COMSEC) Unit cost growth	160,899	141,510 -19,389	-19,389
63	INSTALLATION INFO INFRASTRUCTURE MOD PROGRAM Excess to need	297,994	265,494 -32,500	-32,500



P-1	Budget Request	Committee Recommended	Change from Request
85 SENTINEL MODS	115,210	113,910	-1,300
Excess support costs		-1,300	
86 NIGHT VISION DEVICES	236,604	160,379	-76,225
IVAS early to need		-76,225	
91 FAMILY OF WEAPON SIGHTS (FWS)	120,883	81,541	-39,342
Contract delays		-39,342	
95 JOINT EFFECTS TARGETING SYSTEM (JETS)	69,720	44,720	-25,000
Production issues		-25,000	
111 MOD OF IN-SERVICE EQUIPMENT (ENFIRE)	7,317	15,317	8,000
Program increase - land surveying systems		8,000	
124 FAMILY OF NON-LETHAL EQUIPMENT (FNLE)	0	3,000	3,000
Program increase - acoustic hailing device		3,000	
128 TACTICAL BRIDGING	59,821	57,821	-2,000
Historical underexecution		-2,000	
135 HUSKY MOUNTED DETECTION SYSTEM (HMDS)	83,082	47,517	-35,565
GPR unit cost discrepancy		-6,183	
DBD insufficient justification		-29,382	
142 FAMILY OF BOATS AND MOTORS	8,245	5,745	-2,500
Unit cost growth		-2,500	
147 MOBILE SOLDIER POWER	31,364	29,364	-2,000
Unit cost growth		-2,000	
155 COMBAT SUPPORT MEDICAL	68,225	78,225	10,000
Program increase - combat support hospital deployable infrastructure		10,000	
171 GENERATORS AND ASSOCIATED EQUIPMENT	58,566	113,476	54,910
Program increase - AMMPS		54,910	
182 TEST EQUIPMENT MODERNIZATION (TEMOD)	16,415	13,415	-3,000
Historical underexecution		-3,000	
187 MODIFICATION OF IN-SVC EQUIPMENT (OPA-3)	50,458	60,458	10,000
Program increase - RTCH		10,000	
189 BUILDING, PRE-FAB, RELOCATABLE	14,400	0	-14,400
Transfer to title IX		-14,400	
999 CLASSIFIED PROGRAMS	3,710	11,910	8,200
Transfer from title IX		8,200	

PHYSICAL SECURITY AND ARTIFICIAL INTELLIGENCE

The Committee supports ongoing efforts to improve installation security while also addressing the efficiency of installation entry points. To maximize these initiatives, future investment should incorporate technological advancements that leverage artificial intelligence technology. The integration of these technologies can benefit installation operations by improving security and traffic management, while reducing manpower requirements committed to security operations. The Committee encourages the Secretary of the Army to incorporate lessons learned from existing pilot programs and expand technology deployments to the largest Army installations that could benefit from these operational improvements.

HIGH MOBILITY MULTIPURPOSE WHEELED VEHICLE MODERNIZATION AND RECAPITALIZATION

The Committee recommendation includes \$25,000,000 for High Mobility Multipurpose Wheeled Vehicle (HMMWV) Modernization or HMMWV Recapitalization to obtain new HMMWVs or “like-new” HMMWVs fully restored to zero-hours, zero-miles condition by the installation of a new powered chassis. This approach leverages a low-risk, highly effective, and cost-efficient model created for the Army National Guard HMMWV Modernization Program. Modernizing or recapitalizing HMMWVs with a new, up-to-date chassis of a more consistent configuration will enable future technology insertions and capability upgrades to the HMMWV fleet and will reduce sustainment costs and logistics challenges otherwise created by obsolete, inefficient, and less-capable parts.

ENHANCED LIGHTWEIGHT ARMOR

The Committee is committed to providing soldiers with the most advanced body armor technology. By using advanced lightweight materials and technologies, advanced hard armor has been developed under the soldier protection system program which provides the same level of ballistic protection for soldiers at a significantly lower weight. The Committee encourages the Secretary of the Army to ensure soldiers are issued the best possible body armor for combat deployments and to ensure the body armor manufacturing base remains viable.

AIRCRAFT PROCUREMENT, NAVY

Fiscal year 2019 appropriation .....	\$20,092,199,000
Fiscal year 2020 budget request .....	18,522,204,000
Committee recommendation .....	18,971,913,000
Change from budget request .....	+449,709,000

The Committee recommends an appropriation of \$18,971,913,000 for Aircraft Procurement, Navy which will provide the following program in fiscal year 2020:

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST		COMMITTEE RECOMMENDED		CHANGE FROM REQUEST	
	QTY	AMOUNT	QTY	AMOUNT	QTY	AMOUNT
AIRCRAFT PROCUREMENT, NAVY						
COMBAT AIRCRAFT						
1 F/A-18E/F (FIGHTER) HORNET (MYP).....	24	1,748,934	24	1,730,360	---	-18,574
2 F/A-18E/F (FIGHTER) HORNET (MYP) (AP).....	---	55,128	---	51,180	---	-3,948
3 JOINT STRIKE FIGHTER CV.....	20	2,272,301	20	2,239,821	---	-32,480
4 JOINT STRIKE FIGHTER CV (AP-CY).....	---	339,053	---	339,053	---	---
5 JSF STOVL.....	10	1,342,035	10	1,306,301	---	-35,734
6 JSF STOVL (AP-CY).....	---	291,804	---	291,804	---	---
7 CH-53K (HEAVY LIFT).....	6	807,876	6	793,899	---	-13,977
8 CH-53K (HEAVY LIFT) (AP-CY).....	---	215,014	---	215,014	---	---
9 V-22 (MEDIUM LIFT).....	10	966,666	14	1,214,759	+4	+248,093
10 V-22 (MEDIUM LIFT) (AP-CY).....	---	27,104	---	26,083	---	-1,021
11 UH-1Y/AH-1Z.....	---	62,003	---	43,982	---	-18,021
13 MH-60R.....	---	894	---	894	---	---
14 P-8A POSEIDON.....	6	1,206,701	9	1,676,057	+3	+469,356
16 E-2D ADV HAWKEYE.....	4	744,484	6	1,070,294	+2	+325,810
17 E-2D ADV HAWKEYE (AP-CY).....	---	190,204	---	190,204	---	---
TOTAL, COMBAT AIRCRAFT.....		10,270,201		11,189,705		+919,504
TRAINER AIRCRAFT						
19 ADVANCED HELICOPTER TRAINING SYSTEM.....	32	261,160	28	233,371	-4	-27,789
TOTAL, TRAINER AIRCRAFT.....		261,160		233,371		-27,789

(DOLLARS IN THOUSANDS)

		BUDGET REQUEST QTY	AMOUNT	COMMITTEE RECOMMENDED QTY	AMOUNT	CHANGE FROM REQUEST QTY	AMOUNT
OTHER AIRCRAFT							
20	KC-130J.....	3	240,840	3	221,904	---	-18,936
21	KC-130J (AP-CY).....	---	66,061	---	66,061	---	---
22	F-5.....	22	39,676	22	39,676	---	---
23	MQ-4 TRITON.....	2	473,134	2	435,919	---	-37,215
24	MQ-4 TRITON (AP-CY).....	---	20,139	---	20,139	---	---
25	MQ-8 UAV.....	---	44,957	---	44,957	---	---
26	STUASLO UAV.....	---	43,819	---	26,069	---	-17,750
28	VH-92A EXECUTIVE HELO.....	6	658,067	6	647,351	---	-10,716
TOTAL, OTHER AIRCRAFT.....			1,586,693		1,502,076		-84,617
MODIFICATION OF AIRCRAFT							
29	AEA SYSTEMS.....	---	44,470	---	33,843	---	-10,627
30	AV-8 SERIES.....	---	39,472	---	38,231	---	-1,241
31	ADVERSARY.....	---	3,415	---	3,415	---	---
32	F-18 SERIES.....	---	1,207,089	---	1,127,674	---	-79,415
33	H-53 SERIES.....	---	68,385	---	68,385	---	---
34	MH-60 SERIES.....	---	149,797	---	144,112	---	-5,685
35	H-1 SERIES.....	---	114,059	---	114,059	---	---
36	EP-3 SERIES.....	---	8,655	---	8,655	---	---
38	E-2 SERIES.....	---	117,059	---	117,059	---	---
39	TRAINER A/C SERIES.....	---	5,616	---	5,616	---	---
40	C-2A.....	---	15,747	---	15,747	---	---
41	C-130 SERIES.....	---	122,671	---	106,508	---	-16,163
42	FEWSG.....	---	509	---	509	---	---
43	CARGO/TRANSPORT A/C SERIES.....	---	8,767	---	8,767	---	---
44	E-6 SERIES.....	---	169,827	---	156,873	---	-12,954
45	EXECUTIVE HELICOPTERS SERIES.....	---	8,933	---	8,933	---	---
47	T-45 SERIES.....	---	186,022	---	178,306	---	-7,716
48	POWER PLANT CHANGES.....	---	16,136	---	16,136	---	---
49	JPATS SERIES.....	---	21,824	---	21,824	---	---
50	AVIATION LIFE SUPPORT MODS.....	---	39,762	---	39,762	---	---
51	COMMON ECM EQUIPMENT.....	---	162,839	---	142,339	---	-20,500
52	COMMON AVIONICS CHANGES.....	---	102,107	---	74,837	---	-27,270

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST QTY	AMOUNT	COMMITTEE RECOMMENDED QTY	AMOUNT	CHANGE FROM REQUEST QTY	AMOUNT
53 COMMON DEFENSIVE WEAPON SYSTEM.....	---	2,100	---	2,100	---	---
54 ID SYSTEMS.....	---	41,437	---	41,437	---	---
55 P-8 SERIES.....	---	107,539	---	96,563	---	-10,976
56 MAGTF EW FOR AVIATION.....	---	26,536	---	26,536	---	---
57 MQ-8 SERIES.....	---	34,686	---	31,686	---	-3,000
58 V-22 (TILT/ROTOR ACFT) OSPREY.....	---	325,367	---	325,367	---	---
59 NEXT GENERATION JAMMER (NGJ).....	---	6,223	---	3,111	---	-3,112
60 F-35 STOVL SERIES.....	---	65,585	---	65,585	---	---
61 F-35 CV SERIES.....	---	15,358	---	15,358	---	---
62 QUICK REACTION CAPABILITY (QRC).....	---	165,016	---	123,373	---	-41,643
63 MQ-4 SERIES.....	---	27,994	---	27,994	---	---
64 RQ-21 SERIES.....	---	66,282	---	27,244	---	-39,038
TOTAL, MODIFICATION OF AIRCRAFT.....		3,497,284		3,217,944		-279,340
AIRCRAFT SPARES AND REPAIR PARTS						
67 SPARES AND REPAIR PARTS.....	---	2,166,788	---	2,183,602	---	+16,814
AIRCRAFT SUPPORT EQUIPMENT AND FACILITIES						
68 COMMON GROUND EQUIPMENT.....	---	491,025	---	448,288	---	-42,737
69 AIRCRAFT INDUSTRIAL FACILITIES.....	---	71,335	---	71,335	---	---
70 WAR CONSUMABLES.....	---	41,086	---	32,086	---	-9,000
72 SPECIAL SUPPORT EQUIPMENT.....	---	135,740	---	92,614	---	-43,126
73 FIRST DESTINATION TRANSPORTATION.....	---	892	---	892	---	---
TOTAL, AIRCRAFT SUPPORT EQUIPMENT & FACILITIES.....		740,078		645,215		-94,863
TOTAL, AIRCRAFT PROCUREMENT, NAVY.....		18,522,204		18,971,913		+449,709

**EXPLANATION OF PROJECT LEVEL ADJUSTMENTS**  
[In thousands of dollars]

P-1	Budget Request	Committee Recommended	Change from Request
1 F/A-18E/F (FIGHTER) HORNET (MYP)	1,748,934	1,730,360	-18,574
ECO excess growth		-12,336	
Ancillary equipment excess growth		-6,238	
2 F/A-18E/F (FIGHTER) HORNET (MYP) (AP)	55,128	51,180	-3,948
Excess engine cost growth		-3,948	
3 JOINT STRIKE FIGHTER CV	2,272,301	2,239,821	-32,480
Unit cost savings		-32,480	
5 JSF STOVL	1,342,035	1,306,301	-35,734
Unit cost savings		-14,900	
NRE excess growth		-20,834	
7 CH-53K (HEAVY LIFT)	807,876	793,899	-13,977
NRE excess growth		-13,977	
9 V-22 (MEDIUM LIFT)	966,666	1,214,759	248,093
Support cost excess growth		-61,907	
Program increase - four additional aircraft for the Marine Corps		310,000	
10 V-22 (MEDIUM LIFT) (AP-CY)	27,104	26,083	-1,021
CMV-22 excess cost growth		-1,021	
11 UH-1Y/AH-1Z	62,003	43,982	-18,021
Production line shutdown excess to need		-18,021	
14 P-8A POSEIDON	1,206,701	1,676,057	469,356
Unit cost growth		-37,584	
Production engineering support excess growth		-14,206	
Other ILS excess growth		-20,054	
Program increase - three additional aircraft for the Navy Reserve		541,200	
16 E-2D ADV HAWKEYE	744,484	1,070,294	325,810
GFE electronics excess growth		-3,447	
NRE excess growth		-17,243	
Program increase - two additional aircraft		346,500	
19 ADVANCED HELICOPTER TRAINING SYSTEM	261,160	233,371	-27,789
Reduction of four aircraft		-27,789	
20 KC-130J	240,840	221,904	-18,936
Unit cost growth		-18,936	

P-1	Budget Request	Committee Recommended	Change from Request
<b>23 MQ-4 TRITON</b>	<b>473,134</b>	<b>435,919</b>	<b>-37,215</b>
Airframe unit cost growth		-6,196	
CFE electronics unit cost growth		-2,053	
Other GFE unit cost growth		-4,065	
Airframe PGSE excess growth		-24,901	
<b>26 STUASLO UAV</b>	<b>43,819</b>	<b>26,069</b>	<b>-17,750</b>
Contract award delays		-11,000	
Ancillary equipment excess growth		-6,750	
<b>28 VH-92A EXECUTIVE HELO</b>	<b>658,067</b>	<b>647,351</b>	<b>-10,716</b>
ECO excess growth		-7,073	
Production engineering support excess growth		-3,643	
<b>29 AEA SYSTEMS</b>	<b>44,470</b>	<b>33,843</b>	<b>-10,627</b>
Vertical polarized antenna previously funded		-1,671	
Installation equipment excess growth		-8,956	
<b>30 AV-8 SERIES</b>	<b>39,472</b>	<b>38,231</b>	<b>-1,241</b>
AV-8B listening pod (OSIP 023-00) installation kits previously funded		-1,241	
<b>32 F-18 SERIES</b>	<b>1,207,089</b>	<b>1,127,674</b>	<b>-79,415</b>
Support costs previously funded (OSIP 11-84)		-2,564	
F/A-18 upgrade ECP-583 (OSIP 21-00) early to need		-43,993	
Installation of prior year procurements less than \$5M cost excess growth (OSIP 14-03)		-2,476	
Installation of ECP-6234C1 early to need (OSIP 14-03)		-175	
ECP 6381 unit cost growth (OSIP 002-07)		-4,500	
ECP 6344 unit cost growth (OSIP 002-07)		-13,606	
ECP 6346 unit cost growth (OSIP 002-07)		-4,014	
ECP 6482 unit cost growth (OSIP 011-10)		-2,646	
Support equipment excess growth (OSIP 04-14)		-5,441	
<b>34 MH-60 SERIES</b>	<b>149,797</b>	<b>144,112</b>	<b>-5,685</b>
NRE prior year carryover (OSIP 018-12)		-5,685	
<b>41 C-130 SERIES</b>	<b>122,671</b>	<b>106,508</b>	<b>-16,163</b>
Installation early to need (OSIP 022-07)		-4,785	
Kits previously funded (OSIP 008-12)		-3,085	
Installation cost growth (OSIP 020-12)		-2,408	
GFE excess growth (OSIP 019-14)		-2,876	
B kit cost growth (OSIP 019-14)		-3,009	
<b>44 E-6 SERIES</b>	<b>169,827</b>	<b>156,873</b>	<b>-12,954</b>
Installation kits NRE excess growth (OSIP 003-04)		-3,381	
Other support excess growth (OSIP 013-10)		-2,611	
Support equipment unjustified request (OSIP 014-14)		-3,000	
Installation cost growth (OSIP 014-14)		-3,962	

P-1	Budget Request	Committee Recommended	Change from Request
<b>47 T-45 SERIES</b>	<b>186,022</b>	<b>178,306</b>	<b>-7,716</b>
NRE previously funded (OSIP 003-03)		-1,708	
Installation cost growth (OSIP 022-14)		-6,008	
<b>51 COMMON ECM EQUIPMENT</b>	<b>162,839</b>	<b>142,339</b>	<b>-20,500</b>
MV-22 kit cost growth (OSIP 014-90)		-2,327	
H-1 kit cost growth (OSIP 014-90)		-1,802	
ALQ-214 install equipment previously funded (OSIP 004-12)		-16,371	
<b>52 COMMON AVIONICS CHANGES</b>	<b>102,107</b>	<b>74,837</b>	<b>-27,270</b>
Installation equipment growth early to need (OSIP 10-19)		-10,988	
Common mission computing and displays concurrency (OSIP 06-20)		-16,282	
<b>55 P-8 SERIES</b>	<b>107,539</b>	<b>96,563</b>	<b>-10,976</b>
Increment 3 ECP 6 early to need (OSIP 006-18)		-10,976	
<b>57 MQ-8 SERIES</b>	<b>34,686</b>	<b>31,686</b>	<b>-3,000</b>
UCARS redundancy retrofit previously funded (OSIP 021-14)		-3,000	
<b>59 NEXT GENERATION JAMMER (NGJ)</b>	<b>6,223</b>	<b>3,111</b>	<b>-3,112</b>
Failure to comply with fiscal year 2019 congressional direction		-3,112	
<b>62 QUICK REACTION CAPABILITY (QRC)</b>	<b>165,016</b>	<b>123,373</b>	<b>-41,643</b>
Unit cost growth (OSIP 11-16)		-1,643	
Insufficient budget justification		-40,000	
<b>64 RQ-21 SERIES</b>	<b>66,282</b>	<b>27,244</b>	<b>-39,038</b>
EO/IR turret upgrades unit cost growth (OSIP 004-20)		-8,875	
Classified program reduction		-30,163	
<b>67 SPARES AND REPAIR PARTS</b>	<b>2,166,788</b>	<b>2,183,602</b>	<b>16,814</b>
MQ-4 Triton spares excess growth		-63,986	
Program increase - F-35B engines		28,800	
Program increase - F/A-18 E/F engines		52,000	
<b>68 COMMON GROUND EQUIPMENT</b>	<b>491,025</b>	<b>448,288</b>	<b>-42,737</b>
Cryogenics contract award delay		-1,800	
Other flight training cost growth		-19,983	
Other flight training previously funded		-20,954	
<b>70 WAR CONSUMABLES</b>	<b>41,086</b>	<b>32,086</b>	<b>-9,000</b>
BRU-61 previously funded		-9,000	
<b>72 SPECIAL SUPPORT EQUIPMENT</b>	<b>135,740</b>	<b>92,614</b>	<b>-43,126</b>
Insufficient budget justification		-43,126	



## P-8A POSEIDON

The Committee is concerned with the disconnect between the Navy's stated warfighting requirements and its annual budget requests. In fiscal year 2020, the Navy increased its warfighting requirement for the P-8A Poseidon to 138 from the previous total of 117 aircraft; however, the budget request only includes funding for six aircraft, which would achieve a total program of 117 aircraft. After fiscal year 2020, the Navy intends to curtail production of the P-8A Poseidon and remain 21 aircraft below the stated warfighting requirement.

The new warfighting requirement also includes twelve aircraft to recapitalize the two Marine Patrol and Reconnaissance squadrons assigned to the Naval Reserve. These squadrons currently operate legacy P-3C Orion aircraft. Without new aircraft, the Chief of the Naval Reserve estimates the units will decommission by 2023. The Committee appreciates that the Navy recognized the Naval Reserve squadrons as part of its increased requirement of P-8A aircraft but believes that dedicated funding for the aircraft should have been budgeted in fiscal year 2020 and in the future years defense program.

The Committee recommendation includes an additional \$541,200,000 for three additional aircraft for the Navy Reserve. The Committee also directs the Secretary of the Navy to submit a report to the congressional defense committees not later than 90 days after the enactment of this Act that outlines a plan to recapitalize the two Naval Reserve squadrons with P-8A aircraft prior to fiscal year 2023, when the current aircraft will reach the end of their service lives. The report should include estimated acquisition costs, acquisition timelines, aircraft fielding schedules, and manpower impacts to the Naval Reserve.

## WEAPONS PROCUREMENT, NAVY

Fiscal year 2019 appropriation .....	\$3,711,576,000
Fiscal year 2020 budget request .....	— —
Committee recommendation .....	4,061,797,000
Change from budget request .....	+4,061,797,000

The Committee recommends an appropriation of \$4,061,797,000 for Weapons Procurement, Navy which will provide the following program in fiscal year 2020:

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST QTY	AMOUNT	COMMITTEE RECOMMENDED QTY	AMOUNT	CHANGE FROM REQUEST QTY	AMOUNT
WEAPONS PROCUREMENT, NAVY						
BALLISTIC MISSILES						
MODIFICATION OF MISSILES						
1	TRIDENT II MODS.....	---	---	1,146,136	---	+1,146,136
SUPPORT EQUIPMENT AND FACILITIES						
2	MISSILE INDUSTRIAL FACILITIES.....	---	---	7,142	---	+7,142
-----						
	TOTAL, BALLISTIC MISSILES.....	---	---	1,153,278	---	+1,153,278
OTHER MISSILES						
STRATEGIC MISSILES						
3	TOMAHAWK.....	---	---	344,648	---	+344,648
TACTICAL MISSILES						
4	AMRAAM.....	---	---	191,378	---	+191,378
5	SIDEWINDER.....	---	---	116,970	---	+116,970
7	STANDARD MISSILE.....	---	---	404,523	---	+404,523
8	STANDARD MISSILE (AP-CY).....	---	---	96,085	---	+96,085
9	SMALL DIAMETER BOMB II.....	---	---	115,828	---	+115,828
10	RAM.....	---	---	106,765	---	+106,765
12	HELLFIRE.....	---	---	1,525	---	+1,525
15	AERIAL TARGETS.....	---	---	144,061	---	+144,061
16	DRONES AND DECOYS.....	---	---	18,521	---	+18,521
17	OTHER MISSILE SUPPORT.....	---	---	3,388	---	+3,388
18	LRASM.....	---	---	143,200	---	+143,200
19	LCS OTH MISSILE.....	---	---	38,137	---	+38,137
MODIFICATION OF MISSILES						
20	ESSM.....	---	---	120,601	---	+120,601
21	HARPOON MODS.....	---	---	23,585	---	+23,585
22	HARM MODS.....	---	---	183,740	---	+183,740
SUPPORT EQUIPMENT AND FACILITIES						
24	WEAPONS INDUSTRIAL FACILITIES.....	---	---	1,958	---	+1,958
25	FLEET SATELLITE COMM FOLLOW-ON.....	---	---	58,584	---	+58,584
ORDNANCE SUPPORT EQUIPMENT						
27	ORDNANCE SUPPORT EQUIPMENT.....	---	---	85,717	---	+85,717
-----						
	TOTAL, OTHER MISSILES.....	---	---	2,199,214	---	+2,199,214

(DOLLARS IN THOUSANDS)

		BUDGET REQUEST QTY	AMOUNT	COMMITTEE RECOMMENDED QTY	AMOUNT	CHANGE FROM REQUEST QTY	AMOUNT
TORPEDOES AND RELATED EQUIPMENT							
TORPEDOES AND RELATED EQUIP							
28	SSTD.....	---	---	---	5,561	---	+5,561
29	MK-48 TORPEDO.....	---	---	---	130,000	---	+130,000
30	ASW TARGETS.....	---	---	---	15,095	---	+15,095
MOD OF TORPEDOES AND RELATED EQUIP							
31	MK-54 TORPEDO MODS.....	---	---	---	112,013	---	+112,013
32	MK-48 TORPEDO ADCAP MODS.....	---	---	---	39,508	---	+39,508
33	QUICKSTRIKE MINE.....	---	---	---	5,183	---	+5,183
SUPPORT EQUIPMENT							
34	TORPEDO SUPPORT EQUIPMENT.....	---	---	---	79,028	---	+79,028
35	ASW RANGE SUPPORT.....	---	---	---	3,890	---	+3,890
DESTINATION TRANSPORTATION							
36	FIRST DESTINATION TRANSPORTATION.....	---	---	---	3,803	---	+3,803
-----							
TOTAL, TORPEDOES AND RELATED EQUIPMENT.....			---	394,081		+394,081	
OTHER WEAPONS							
GUNS AND GUN MOUNTS							
37	SMALL ARMS AND WEAPONS.....	---	---	---	13,607	---	+13,607
MODIFICATION OF GUNS AND GUN MOUNTS							
38	CIWS MODS.....	---	---	---	44,126	---	+44,126
39	COAST GUARD WEAPONS.....	---	---	---	44,980	---	+44,980
40	GUN MOUNT MODS.....	---	---	---	66,376	---	+66,376
41	LCS MODULE WEAPONS.....	---	---	---	14,585	---	+14,585
43	AIRBORNE MINE NEUTRALIZATION SYSTEMS.....	---	---	---	7,160	---	+7,160
-----							
TOTAL, OTHER WEAPONS.....			---	190,834		+190,834	
45	SPARES AND REPAIR PARTS.....	---	---	---	124,390	---	+124,390
-----							
TOTAL, WEAPONS PROCUREMENT, NAVY.....			---	4,061,797		+4,061,797	
			=====	=====		=====	

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS  
[In thousands of dollars]

P-1	Budget Request	Committee Recommended	Change from Request
<b>1 TRIDENT II MODS</b>	<b>0</b>	<b>1,146,136</b>	<b>1,146,136</b>
Transfer from title IX		1,177,251	
Tooling, test/support equipment excess growth		-11,515	
Excess to need		-19,600	
<b>2 MISSILE INDUSTRIAL FACILITIES</b>	<b>0</b>	<b>7,142</b>	<b>7,142</b>
Transfer from title IX		7,142	
<b>3 TOMAHAWK</b>	<b>0</b>	<b>344,648</b>	<b>344,648</b>
Transfer from title IX		386,730	
Unit cost growth		-18,180	
Canister unit cost growth		-2,111	
Production engineering excess support growth		-4,392	
MST kits early to need		-16,963	
MST support early to need		-436	
<b>4 AMRAAM</b>	<b>0</b>	<b>191,378</b>	<b>191,378</b>
Transfer from title IX		224,502	
Unit cost growth		-33,124	
<b>5 SIDEWINDER</b>	<b>0</b>	<b>116,970</b>	<b>116,970</b>
Transfer from title IX		119,456	
AUR unit cost growth		-2,052	
CATM unit cost growth		-434	
<b>7 STANDARD MISSILE</b>	<b>0</b>	<b>404,523</b>	<b>404,523</b>
Transfer from title IX		404,523	
<b>8 STANDARD MISSILE (AP-CY)</b>	<b>0</b>	<b>96,085</b>	<b>96,085</b>
Transfer from title IX		96,085	
<b>9 SMALL DIAMETER BOMB II</b>	<b>0</b>	<b>115,828</b>	<b>115,828</b>
Transfer from title IX		118,466	
AUR unit cost growth		-2,638	
<b>10 RAM</b>	<b>0</b>	<b>106,765</b>	<b>106,765</b>
Transfer from title IX		106,765	
<b>12 HELLFIRE</b>	<b>0</b>	<b>1,525</b>	<b>1,525</b>
Transfer from title IX		1,525	
<b>15 AERIAL TARGETS</b>	<b>0</b>	<b>144,061</b>	<b>144,061</b>
Transfer from title IX		145,880	
BQM-177A unit cost growth		-1,819	

P-1	Budget Request	Committee Recommended	Change from Request
<b>16 DRONES AND DECOYS</b>	<b>0</b>	<b>18,521</b>	<b>18,521</b>
Transfer from title IX		20,000	
Excess to need		-1,479	
<b>17 OTHER MISSILE SUPPORT</b>	<b>0</b>	<b>3,388</b>	<b>3,388</b>
Transfer from title IX		3,388	
<b>18 LRASM</b>	<b>0</b>	<b>143,200</b>	<b>143,200</b>
Transfer from title IX		143,200	
<b>19 LCS OTH MISSILE</b>	<b>0</b>	<b>38,137</b>	<b>38,137</b>
Transfer from title IX		38,137	
<b>20 ESSM</b>	<b>0</b>	<b>120,601</b>	<b>120,601</b>
Transfer from title IX		128,059	
Production support excess to need		-7,458	
<b>21 HARPOON MODS</b>	<b>0</b>	<b>23,585</b>	<b>23,585</b>
Transfer from title IX		25,447	
Harpoon block II+ installation kits unit cost growth		-1,862	
<b>22 HARM MODS</b>	<b>0</b>	<b>183,740</b>	<b>183,740</b>
Transfer from title IX		183,740	
<b>23 STANDARD MISSILE MODS</b>	<b>0</b>	<b>0</b>	<b>0</b>
Transfer from title IX		22,500	
Early to need		-22,500	
<b>24 WEAPONS INDUSTRIAL FACILITIES</b>	<b>0</b>	<b>1,958</b>	<b>1,958</b>
Transfer from title IX		1,958	
<b>25 FLEET SATELLITE COMM FOLLOW-ON</b>	<b>0</b>	<b>58,584</b>	<b>58,584</b>
Transfer from title IX		67,380	
MUOS upgrade mod kits cost growth		-8,796	
<b>27 ORDNANCE SUPPORT EQUIPMENT</b>	<b>0</b>	<b>85,717</b>	<b>85,717</b>
Transfer from title IX		109,427	
Insufficient budget justification		-23,710	
<b>28 SSTD</b>	<b>0</b>	<b>5,561</b>	<b>5,561</b>
Transfer from title IX		5,561	
<b>29 MK-48 TORPEDO</b>	<b>0</b>	<b>130,000</b>	<b>130,000</b>
Transfer from title IX		114,000	
Program increase - additional munitions		16,000	
<b>30 ASW TARGETS</b>	<b>0</b>	<b>15,095</b>	<b>15,095</b>
Transfer from title IX		15,095	

P-1	Budget Request	Committee Recommended	Change from Request
<b>31 MK-54 TORPEDO MODS</b>	<b>0</b>	<b>112,013</b>	<b>112,013</b>
Transfer from title IX		119,453	
HAAWC kits unit cost growth		-7,440	
<b>32 MK-48 TORPEDO ADCAP MODS</b>	<b>0</b>	<b>39,508</b>	<b>39,508</b>
Transfer from title IX		39,508	
<b>33 QUICKSTRIKE MINE</b>	<b>0</b>	<b>5,183</b>	<b>5,183</b>
Transfer from title IX		5,183	
<b>34 TORPEDO SUPPORT EQUIPMENT</b>	<b>0</b>	<b>79,028</b>	<b>79,028</b>
Transfer from title IX		79,028	
<b>35 ASW RANGE SUPPORT</b>	<b>0</b>	<b>3,890</b>	<b>3,890</b>
Transfer from title IX		3,890	
<b>36 FIRST DESTINATION TRANSPORTATION</b>	<b>0</b>	<b>3,803</b>	<b>3,803</b>
Transfer from title IX		3,803	
<b>37 SMALL ARMS AND WEAPONS</b>	<b>0</b>	<b>13,607</b>	<b>13,607</b>
Transfer from title IX		14,797	
CSASS previously funded		-1,190	
<b>38 CIWS MODS</b>	<b>0</b>	<b>44,126</b>	<b>44,126</b>
Transfer from title IX		44,126	
<b>39 COAST GUARD WEAPONS</b>	<b>0</b>	<b>44,980</b>	<b>44,980</b>
Transfer from title IX		44,980	
<b>40 GUN MOUNT MODS</b>	<b>0</b>	<b>66,376</b>	<b>66,376</b>
Transfer from title IX		66,376	
<b>41 LCS MODULE WEAPONS</b>	<b>0</b>	<b>14,585</b>	<b>14,585</b>
Transfer from title IX		14,585	
<b>43 AIRBORNE MINE NEUTRALIZATION SYSTEMS</b>	<b>0</b>	<b>7,160</b>	<b>7,160</b>
Transfer from title IX		7,160	
<b>45 SPARES AND REPAIR PARTS</b>	<b>0</b>	<b>124,390</b>	<b>124,390</b>
Transfer from title IX		126,138	
AMRAAM spares previously funded		-1,748	

PROCUREMENT OF AMMUNITION, NAVY AND MARINE  
CORPS

Fiscal year 2019 appropriation .....	\$952,682,000
Fiscal year 2020 budget request .....	— — —
Committee recommendation .....	848,782,000
Change from budget request .....	+848,782,000

The Committee recommends an appropriation of \$848,782,000 for Procurement of Ammunition, Navy and Marine Corps which will provide the following program in fiscal year 2020:

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST		COMMITTEE RECOMMENDED		CHANGE FROM REQUEST
	QTY	AMOUNT	QTY	AMOUNT	QTY
					AMOUNT
-----					
PROCUREMENT OF AMMO, NAVY & MARINE CORPS					
PROC AMMO, NAVY					
NAVY AMMUNITION					
1	GENERAL PURPOSE BOMBS.....	---	---	19,521	---
					+19,521
2	JDAM.....	---	---	62,978	---
					+62,978
3	AIRBORNE ROCKETS, ALL TYPES.....	---	---	22,258	---
					+22,258
4	MACHINE GUN AMMUNITION.....	---	---	4,793	---
					+4,793
5	PRACTICE BOMBS.....	---	---	27,139	---
					+27,139
6	CARTRIDGES & CART ACTUATED DEVICES.....	---	---	37,860	---
					+37,860
7	AIR EXPENDABLE COUNTERMEASURES.....	---	---	67,854	---
					+67,854
8	JATOS.....	---	---	7,262	---
					+7,262
9	5 INCH/54 GUN AMMUNITION.....	---	---	21,166	---
					+21,166
10	INTERMEDIATE CALIBER GUN AMMUNITION.....	---	---	37,193	---
					+37,193
11	OTHER SHIP GUN AMMUNITION.....	---	---	28,217	---
					+28,217
12	SMALL ARMS & LANDING PARTY AMMO.....	---	---	47,896	---
					+47,896
13	PYROTECHNIC AND DEMOLITION.....	---	---	10,621	---
					+10,621
15	AMMUNITION LESS THAN \$5 MILLION.....	---	---	1,061	---
					+1,061
-----					
TOTAL, PROC AMMO, NAVY.....		---	395,819		+395,819



(DOLLARS IN THOUSANDS)

		BUDGET REQUEST QTY	AMOUNT	COMMITTEE RECOMMENDED QTY	AMOUNT	CHANGE FROM REQUEST QTY	AMOUNT
-----							
	PROC AMMO, MARINE CORPS						
	MARINE CORPS AMMUNITION						
16	MORTARS.....	---	---	---	50,060	---	+50,060
17	DIRECT SUPPORT MUNITIONS.....	---	---	---	131,765	---	+131,765
18	INFANTRY WEAPONS AMMUNITION.....	---	---	---	59,826	---	+59,826
19	COMBAT SUPPORT MUNITIONS.....	---	---	---	33,995	---	+33,995
20	AMMO MODERNIZATION.....	---	---	---	10,010	---	+10,010
21	ARTILLERY MUNITIONS.....	---	---	---	162,786	---	+162,786
22	ITEMS LESS THAN \$5 MILLION.....	---	---	---	4,521	---	+4,521
-----							
	TOTAL, PROC AMMO, MARINE CORPS.....		---		452,963		+452,963
-----							
	TOTAL, PROCUREMENT OF AMMO, NAVY & MARINE CORPS.....		---		848,782		+848,782
=====							

**EXPLANATION OF PROJECT LEVEL ADJUSTMENTS**  
[In thousands of dollars]

P-1	Budget Request	Committee Recommended	Change from Request
<b>1 GENERAL PURPOSE BOMBS</b>	<b>0</b>	<b>19,521</b>	<b>19,521</b>
Transfer from title IX		36,028	
Q2192 BLU-110 unit cost growth		-1,031	
Q2032 FMU-139 electrical fuze contract award delays		-15,476	
<b>2 JDAM</b>	<b>0</b>	<b>62,978</b>	<b>62,978</b>
Transfer from title IX		70,413	
JDAM tail kit unit cost growth		-7,435	
<b>3 AIRBORNE ROCKETS, ALL TYPES</b>	<b>0</b>	<b>22,258</b>	<b>22,258</b>
Transfer from title IX		31,756	
MK-66 rocket motor unit cost growth		-4,049	
APKWS unit cost growth		-1,687	
LAU-68 unit cost growth		-3,762	
<b>4 MACHINE GUN AMMUNITION</b>	<b>0</b>	<b>4,793</b>	<b>4,793</b>
Transfer from title IX		4,793	
<b>5 PRACTICE BOMBS</b>	<b>0</b>	<b>27,139</b>	<b>27,139</b>
Transfer from title IX		34,708	
Q1300 LGTR unit cost growth		-7,569	
<b>6 CARTRIDGES &amp; CART ACTUATED DEVICES</b>	<b>0</b>	<b>37,860</b>	<b>37,860</b>
Transfer from title IX		45,738	
Thermal battery contract delay		-987	
MK122 schedule delays		-5,365	
MK123 schedule delays		-567	
MK124 schedule delays		-959	
<b>7 AIR EXPENDABLE COUNTERMEASURES</b>	<b>0</b>	<b>67,854</b>	<b>67,854</b>
Transfer from title IX		77,301	
ALE-55 unit cost growth		-5,657	
MJU-67 unit cost savings		-3,790	
<b>8 JATOS</b>	<b>0</b>	<b>7,262</b>	<b>7,262</b>
Transfer from title IX		7,262	
<b>9 5 INCH/54 GUN AMMUNITION</b>	<b>0</b>	<b>21,166</b>	<b>21,166</b>
Transfer from title IX		22,594	
MK187 mod 0 projectile unit cost growth		-1,428	
<b>10 INTERMEDIATE CALIBER GUN AMMUNITION</b>	<b>0</b>	<b>37,193</b>	<b>37,193</b>
Transfer from title IX		37,193	

P-1	Budget Request	Committee Recommended	Change from Request
<b>11 OTHER SHIP GUN AMMUNITION</b>	<b>0</b>	<b>28,217</b>	<b>28,217</b>
Transfer from title IX		39,491	
CART 20MM dummy contract award delay		-425	
CART 20MM MK244 ELC contract award delay		-10,849	
<b>12 SMALL ARMS &amp; LANDING PARTY AMMO</b>	<b>0</b>	<b>47,896</b>	<b>47,896</b>
Transfer from title IX		47,896	
<b>13 PYROTECHNIC AND DEMOLITION</b>	<b>0</b>	<b>10,621</b>	<b>10,621</b>
Transfer from title IX		10,621	
<b>15 AMMUNITION LESS THAN \$5 MILLION</b>	<b>0</b>	<b>1,061</b>	<b>1,061</b>
Transfer from title IX		2,386	
MK-58 marine location markers contract award delay		-1,325	
<b>16 MORTARS</b>	<b>0</b>	<b>50,060</b>	<b>50,060</b>
Transfer from title IX		55,543	
Prior year underexecution		-5,483	
<b>17 DIRECT SUPPORT MUNITIONS</b>	<b>0</b>	<b>131,765</b>	<b>131,765</b>
Transfer from title IX		131,765	
<b>18 INFANTRY WEAPONS AMMUNITION</b>	<b>0</b>	<b>59,826</b>	<b>59,826</b>
Transfer from title IX		78,056	
40MM practice day/night MK281 mod 3 contract award delay		-3,546	
Small arms ammunition prior year underexecution		-13,830	
A023, CTG, 12 gauge 1 oz slug commercial early to need		-250	
A555 cal .50 ball M33 unit cost growth		-604	
<b>19 COMBAT SUPPORT MUNITIONS</b>	<b>0</b>	<b>33,995</b>	<b>33,995</b>
Transfer from title IX		40,048	
MK913 LAP unit cost growth		-907	
MK913 COMP C-4 unit cost growth		-4,540	
Hand grenade production engineering excess growth		-606	
<b>20 AMMO MODERNIZATION</b>	<b>0</b>	<b>10,010</b>	<b>10,010</b>
Transfer from title IX		14,325	
Items previously funded		-4,315	
<b>21 ARTILLERY MUNITIONS</b>	<b>0</b>	<b>162,786</b>	<b>162,786</b>
Transfer from title IX		188,876	
DA54 explosive fill IMX 104 contract award delay		-380	
DA54 wooden pallets contract award delay		-442	
DA54 explosive fill IMX 101 contract award delay		-8,410	
DA54 M795 IM metal part contract award delay		-12,628	
NA29 complete fuze contract award savings		-4,230	
<b>22 ITEMS LESS THAN \$5 MILLION</b>	<b>0</b>	<b>4,521</b>	<b>4,521</b>
Transfer from title IX		4,521	

## SHIPBUILDING AND CONVERSION, NAVY

Fiscal year 2019 appropriation .....	\$24,150,087,000
Fiscal year 2020 budget request .....	23,783,710,000
Committee recommendation .....	21,699,556,000
Change from budget request .....	-2,084,154,000

The Committee recommends an appropriation of \$21,699,556,000 for Shipbuilding and Conversion, Navy which will provide the following program in fiscal year 2020:

(DOLLARS IN THOUSANDS)

		BUDGET REQUEST		COMMITTEE RECOMMENDED		CHANGE FROM REQUEST	
		QTY	AMOUNT	QTY	AMOUNT	QTY	AMOUNT
SHIPBUILDING & CONVERSION, NAVY							
FLEET BALLISTIC MISSILE SHIPS							
1	OHIO REPLACEMENT SUBMARINE (AP-CY).....	---	1,698,907	---	1,611,989	---	-86,918
OTHER WARSHIPS							
2	CARRIER REPLACEMENT PROGRAM (CVN 80).....	---	2,347,000	---	2,066,000	---	-281,000
3	VIRGINIA CLASS SUBMARINE.....	3	7,155,946	2	4,192,346	-1	-2,963,600
4	VIRGINIA CLASS SUBMARINE (AP-CY).....	---	2,769,552	---	4,266,552	---	+1,497,000
5	CVN REFUELING OVERHAUL.....	1	647,926	1	667,926	---	+20,000
6	CVN REFUELING OVERHAULS (AP-CY).....	---	---	---	16,900	---	+16,900
7	DDG 1000.....	---	155,944	---	155,944	---	---
8	DDG-51.....	3	5,099,295	3	5,015,295	---	-84,000
9	DDG-51 (AP-CY).....	---	224,028	---	224,028	---	---
11	FFG-FRIGATE.....	1	1,281,177	1	1,281,177	---	---
TOTAL, OTHER WARSHIPS.....							
			19,680,868		17,886,168		-1,794,700
AMPHIBIOUS SHIPS							
13	LPD FLIGHT II.....	---	247,100	---	---	---	-247,100
TOTAL, AMPHIBIOUS SHIPS.....							
			247,100		---		-247,100

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST QTY	AMOUNT	COMMITTEE RECOMMENDED QTY	AMOUNT	CHANGE FROM REQUEST QTY	AMOUNT
AUXILIARIES, CRAFT, AND PRIOR-YEAR PROGRAM COSTS						
18 TAO FLEET OILER .....	2	981,215	2	981,215	---	---
19 TAO FLEET OILER (AP-CY) .....	---	73,000	---	73,000	---	---
20 TOWING, SALVAGE, AND RESCUE SHIP (ATS) .....	2	150,282	2	150,282	---	---
22 LCU 1700 .....	4	85,670	4	83,670	---	-2,000
23 OUTFITTING .....	---	754,679	---	736,243	---	-18,436
24 SHIP TO SHORE CONNECTOR .....	---	---	1	65,000	+1	+65,000
25 SERVICE CRAFT .....	---	56,289	---	56,289	---	---
28 COMPLETION OF PY SHIPBUILDING PROGRAMS .....	---	55,700	---	55,700	---	---
TOTAL, AUXILIARIES, CRAFT, AND PRIOR-YEAR PROGRAM ..		2,156,835		2,201,399		+44,564
TOTAL, SHIPBUILDING & CONVERSION, NAVY .....		23,783,710		21,699,556		-2,084,154
		*****		*****		*****

**EXPLANATION OF PROJECT LEVEL ADJUSTMENTS**  
[In thousands of dollars]

P-1		Budget Request	Committee Recommended	Change from Request
1	<b>OHIO REPLACEMENT SUBMARINE (AP-CY)</b>	1,698,907	1,611,989	-86,918
	Plans excess growth		-66,461	
	Missile tube continuous production early to need		-19,477	
	Shipyard manufactured items continuous production early to need		-980	
2	<b>CARRIER REPLACEMENT PROGRAM</b>	2,347,000	2,066,000	-281,000
	Basic construction excess to need		-20,000	
	Propulsion equipment excess to need		-261,000	
3	<b>VIRGINIA CLASS SUBMARINE</b>	7,155,946	4,192,346	-2,963,600
	Transfer to line 4		-1,497,000	
	Transfer to OMN for USS Boise maintenance		-290,000	
	Transfer to OMN for USS Hartford maintenance		-306,000	
	Transfer to OMN for USS Columbus maintenance		-57,000	
	Program realignment		236,400	
	Program realignment		-236,400	
	Early to need		-813,600	
4	<b>VIRGINIA CLASS SUBMARINE (AP-CY)</b>	2,769,552	4,266,552	1,497,000
	Transfer from line 3		1,497,000	
5	<b>CVN REFUELING OVERHAULS</b>	647,926	667,926	20,000
	Program increase - operator ballistic protection for crew served weapons stations		20,000	
6	<b>CVN REFUELING OVERHAULS (AP-CY)</b>	0	16,900	16,900
	Program increase - only for CVN 75		16,900	
8	<b>DDG-51</b>	5,099,295	5,015,295	-84,000
	Basic construction excess growth		-66,000	
	Electronics excess growth		-18,000	
13	<b>LPD FLIGHT II</b>	247,100	0	-247,100
	Advance procurement funded in fiscal year 2019		-247,100	
22	<b>LCU 1700</b>	85,670	83,670	-2,000
	Other cost excess growth		-2,000	
23	<b>OUTFITTING</b>	754,679	736,243	-18,436
	Virginia class outfitting excess growth		-8,958	
	DDG-51 outfitting excess to need		-5,613	
	LCS outfitting early to need		-2,607	
	Virginia class post-delivery early to need		-1,258	
24	<b>SHIP TO SHORE CONNECTOR</b>	0	65,000	65,000
	Program increase - one additional SSC		65,000	

## EXPEDITIONARY SEA BASE

The Expeditionary Sea Base is a mature, affordable shipbuilding program that provides combatant commanders with the flexibility to respond to immediate threats around the world. The fiscal year 2020 budget request projects procurement funding for the next Expeditionary Sea Base in fiscal years 2022 and 2023, three years later than the fiscal year 2019 budget request and shipbuilding plan had projected. The Committee encourages the Secretary of the Navy to accelerate the procurement of the next Expeditionary Sea Base to achieve the required capability, while allowing for greater affordability and stability for the industrial base.

## OTHER PROCUREMENT, NAVY

Fiscal year 2019 appropriation .....	\$9,097,138,000
Fiscal year 2020 budget request .....	9,652,956,000
Committee recommendation .....	9,123,068,000
Change from budget request .....	– 529,888,000

The Committee recommends an appropriation of \$9,123,068,000 for Other Procurement, Navy which will provide the following program in fiscal year 2020:



(DOLLARS IN THOUSANDS)

		BUDGET REQUEST QTY	AMOUNT	COMMITTEE RECOMMENDED QTY	AMOUNT	CHANGE FROM REQUEST QTY	AMOUNT
OTHER PROCUREMENT, NAVY							
	SHIPS SUPPORT EQUIPMENT						
	SHIP PROPULSION EQUIPMENT						
1	SURFACE POWER EQUIPMENT.....	---	14,490	---	14,490	---	---
	GENERATORS						
2	SURFACE COMBATANT HM&E.....	---	31,583	---	31,561	---	-22
	NAVIGATION EQUIPMENT						
3	OTHER NAVIGATION EQUIPMENT.....	---	77,404	---	72,744	---	-4,660
	PERISCOPES						
4	SUB PERISCOPES AND IMAGING SUPPORT EQUIPMENT PROGRAM..	---	160,803	---	160,803	---	---
	OTHER SHIPBOARD EQUIPMENT						
5	DDG MOD.....	---	566,140	---	566,316	---	+176
6	FIREFIGHTING EQUIPMENT.....	---	18,223	---	17,547	---	-676
7	COMMAND AND CONTROL SWITCHBOARD.....	---	2,086	---	2,086	---	---
8	LHA/LHD MIDLIFE.....	---	95,651	---	79,563	---	-16,088
9	POLLUTION CONTROL EQUIPMENT.....	---	23,910	---	21,820	---	-2,090
10	SUBMARINE SUPPORT EQUIPMENT.....	---	44,895	---	44,895	---	---
11	VIRGINIA CLASS SUPPORT EQUIPMENT.....	---	28,465	---	28,465	---	---
12	LCS CLASS SUPPORT EQUIPMENT.....	---	19,426	---	23,426	---	+4,000
13	SUBMARINE BATTERIES.....	---	26,290	---	23,397	---	-2,893
14	LPD CLASS SUPPORT EQUIPMENT.....	---	46,945	---	46,945	---	---
15	DOG-1000 SUPPORT EQUIPMENT.....	---	9,930	---	9,930	---	---
16	STRATEGIC PLATFORM SUPPORT EQUIP.....	---	14,331	---	14,331	---	---
17	DSSP EQUIPMENT.....	---	2,909	---	2,909	---	---
18	CRUISER MODERNIZATION.....	---	193,990	---	193,990	---	---
19	LCAC.....	---	3,392	---	3,392	---	---
20	UNDERWATER EOD PROGRAMS.....	---	71,240	---	71,240	---	---
21	ITEMS LESS THAN \$5 MILLION.....	---	102,543	---	87,857	---	-14,686

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST QTY	AMOUNT	COMMITTEE RECOMMENDED QTY	AMOUNT	CHANGE FROM REQUEST QTY	AMOUNT
22 CHEMICAL WARFARE DETECTORS.....	---	2,961	---	2,961	---	---
23 SUBMARINE LIFE SUPPORT SYSTEM.....	---	6,635	---	6,635	---	---
24 REACTOR PLANT EQUIPMENT REACTOR POWER UNITS.....	---	5,340	---	5,340	---	---
25 REACTOR COMPONENTS.....	---	465,726	---	450,358	---	-15,368
26 OCEAN ENGINEERING DIVING AND SALVAGE EQUIPMENT.....	---	11,854	---	11,854	---	---
27 SMALL BOATS STANDARD BOATS.....	---	79,102	---	67,102	---	-12,000
28 PRODUCTION FACILITIES EQUIPMENT OPERATING FORCES IPE.....	---	202,238	---	202,238	---	---
29 OTHER SHIP SUPPORT LCS COMMON MISSION MODULES EQUIPMENT.....	---	51,553	---	38,730	---	-12,823
30 LCS MCM MISSION MODULES.....	---	197,129	---	163,635	---	-33,494
31 LCS ASW MISSION MODULES.....	---	27,754	---	24,617	---	-3,137
32 LCS SUW MISSION MODULES.....	---	26,566	---	14,598	---	-11,968
33 LCS IN-SERVICE MODERNIZATION.....	---	84,972	---	85,714	---	+742
34 LOGISTICS SUPPORT SMALL & MEDIUM UUV.....	---	40,547	---	---	---	-40,547
35 LSD MIDLIFE AND MODERNIZATION.....	---	40,269	---	40,269	---	---
SUBTOTAL.....		40,269		40,269		---
TOTAL, SHIPS SUPPORT EQUIPMENT.....		2,797,292		2,631,758		-165,534
COMMUNICATIONS AND ELECTRONICS EQUIPMENT						
36 SHIP SONARS SPQ-9B RADAR.....	---	26,195	---	21,664	---	-4,531
37 AN/SQQ-89 SURF ASW COMBAT SYSTEM.....	---	125,237	---	121,966	---	-3,271
38 SSN ACOUSTICS EQUIPMENT.....	---	366,968	---	354,605	---	-12,363
39 UNDERSEA WARFARE SUPPORT EQUIPMENT.....	---	8,967	---	8,967	---	---

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST QTY	AMOUNT	COMMITTEE RECOMMENDED QTY	AMOUNT	CHANGE FROM REQUEST QTY	AMOUNT
ASW ELECTRONIC EQUIPMENT						
40 SUBMARINE ACOUSTIC WARFARE SYSTEM.....	---	23,545	---	22,331	---	-1,214
41 SSTO.....	---	12,439	---	12,439	---	---
42 FIXED SURVEILLANCE SYSTEM.....	---	128,441	---	128,441	---	---
43 SURTASS.....	---	21,923	---	21,923	---	---
ELECTRONIC WARFARE EQUIPMENT						
44 AN/SLQ-32.....	---	420,154	---	348,558	---	-71,596
RECONNAISSANCE EQUIPMENT						
45 SHIPBOARD IW EXPLOIT.....	---	194,758	---	193,440	---	-1,318
46 AUTOMATED IDENTIFICATION SYSTEM (AIS).....	---	5,368	---	5,368	---	---
OTHER SHIP ELECTRONIC EQUIPMENT						
47 COOPERATIVE ENGAGEMENT CAPABILITY.....	---	35,128	---	30,452	---	-4,676
48 NAVAL TACTICAL COMMAND SUPPORT SYSTEM (NTCSS).....	---	15,154	---	15,154	---	---
49 ATDLS.....	---	52,753	---	52,753	---	---
50 NAVY COMMAND AND CONTROL SYSTEM (NCCS).....	---	3,390	---	3,390	---	---
51 MINESWEEPING SYSTEM REPLACEMENT.....	---	19,448	---	19,448	---	---
52 SHALLOW WATER MCM.....	---	8,730	---	8,730	---	---
53 NAVSTAR GPS RECEIVERS (SPACE).....	---	32,674	---	32,674	---	---
54 ARMED FORCES RADIO AND TV.....	---	2,617	---	2,617	---	---
55 STRATEGIC PLATFORM SUPPORT EQUIP.....	---	7,973	---	7,973	---	---
AVIATION ELECTRONIC EQUIPMENT						
56 ASHORE ATC EQUIPMENT.....	---	72,406	---	71,037	---	-1,369
57 AFLOAT ATC EQUIPMENT.....	---	67,410	---	65,779	---	-1,631
58 ID SYSTEMS.....	---	26,059	---	25,506	---	-553
59 JOINT PRECISION APPROACH AND LANDING SYSTEM.....	---	92,695	---	92,695	---	---
60 NAVAL MISSION PLANNING SYSTEMS.....	---	15,296	---	15,296	---	---

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST		COMMITTEE RECOMMENDED		CHANGE FROM REQUEST
	QTY	AMOUNT	QTY	AMOUNT	QTY
OTHER SHORE ELECTRONIC EQUIPMENT					
61 TACTICAL/MOBILE C41 SYSTEMS.....	---	36,226	---	33,419	---
62 DCGS-N.....	---	21,788	---	21,427	---
63 CANES.....	---	426,654	---	420,071	---
64 RADIAC.....	---	6,450	---	6,450	---
65 CANES-INTELL.....	---	52,713	---	52,713	---
66 GPETE.....	---	13,028	---	12,214	---
67 MASF.....	---	5,193	---	5,193	---
68 INTEG COMBAT SYSTEM TEST FACILITY.....	---	6,028	---	6,028	---
69 EMI CONTROL INSTRUMENTATION.....	---	4,209	---	4,209	---
70 ITEMS LESS THAN \$5 MILLION.....	---	168,436	---	159,654	---
SHIPBOARD COMMUNICATIONS					
71 SHIPBOARD TACTICAL COMMUNICATIONS.....	---	55,853	---	41,385	---
72 SHIP COMMUNICATIONS AUTOMATION.....	---	137,861	---	122,380	---
73 COMMUNICATIONS ITEMS UNDER \$5M.....	---	35,093	---	29,486	---
SUBMARINE COMMUNICATIONS					
74 SUBMARINE BROADCAST SUPPORT.....	---	50,833	---	50,833	---
75 SUBMARINE COMMUNICATION EQUIPMENT.....	---	69,643	---	60,794	---
SATELLITE COMMUNICATIONS					
76 SATELLITE COMMUNICATIONS SYSTEMS.....	---	45,841	---	45,084	---
77 NAVY MULTIBAND TERMINAL (NMT).....	---	88,021	---	78,896	---
SHORE COMMUNICATIONS					
78 JCS COMMUNICATIONS EQUIPMENT.....	---	4,293	---	4,293	---
CRYPTOGRAPHIC EQUIPMENT					
79 INFO SYSTEMS SECURITY PROGRAM (ISSP).....	---	166,540	---	166,540	---
80 MIO INTEL EXPLOITATION TEAM.....	---	968	---	968	---
CRYPTOLOGIC EQUIPMENT					
81 CRYPTOLOGIC COMMUNICATIONS EQUIP.....	---	13,090	---	13,090	---
OTHER ELECTRONIC SUPPORT					
83 COAST GUARD EQUIPMENT.....	---	61,370	---	61,370	---
TOTAL, COMMUNICATIONS AND ELECTRONICS EQUIPMENT.....		3,255,859		3,079,703	-176,156

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST QTY	AMOUNT	COMMITTEE RECOMMENDED QTY	AMOUNT	CHANGE FROM REQUEST QTY	AMOUNT
-----						
AVIATION SUPPORT EQUIPMENT						
SONOBUOYS						
85 SONOBUOYS - ALL TYPES.....	---	260,644	---	285,644	---	+25,000
AIRCRAFT SUPPORT EQUIPMENT						
86 MINOTAUR.....	---	5,000	---	5,000	---	---
87 WEAPONS RANGE SUPPORT EQUIPMENT.....	---	101,843	---	101,843	---	---
88 AIRCRAFT SUPPORT EQUIPMENT.....	---	145,601	---	135,211	---	-10,390
89 ADVANCED ARRESTING GEAR (AAG).....	---	4,725	---	4,725	---	---
90 METEOROLOGICAL EQUIPMENT.....	---	14,687	---	12,407	---	-2,280
92 AIRBORNE MINE COUNTERMEASURES.....	---	19,250	---	16,330	---	-2,920
93 LAMPS EQUIPMENT.....	---	792	---	792	---	---
94 AVIATION SUPPORT EQUIPMENT.....	---	55,415	---	62,389	---	+6,974
95 UMCS-UNMAN CARRIER AVIATION (UCA) MISSION CONTROL.....	---	32,668	---	32,668	---	---
-----						
TOTAL, AVIATION SUPPORT EQUIPMENT.....		640,625		657,009		+16,384
-----						
ORDNANCE SUPPORT EQUIPMENT						
SHIP GUN SYSTEM EQUIPMENT						
96 SHIP GUN SYSTEMS EQUIPMENT.....	---	5,451	---	5,451	---	---
SHIP MISSILE SYSTEMS EQUIPMENT						
97 HARPOON SUPPORT EQUIPMENT.....	---	1,100	---	---	---	-1,100
98 SHIP MISSILE SUPPORT EQUIPMENT.....	---	228,104	---	204,826	---	-23,278
99 TOMAHAWK SUPPORT EQUIPMENT.....	---	78,593	---	78,593	---	---
FBM SUPPORT EQUIPMENT						
100 STRATEGIC MISSILE SYSTEMS EQUIP.....	---	280,510	---	221,764	---	-58,746
ASW SUPPORT EQUIPMENT						
101 SSN COMBAT CONTROL SYSTEMS.....	---	148,547	---	143,678	---	-4,869
102 ASW SUPPORT EQUIPMENT.....	---	21,130	---	18,181	---	-2,949
OTHER ORDNANCE SUPPORT EQUIPMENT						
103 EXPLOSIVE ORDNANCE DISPOSAL EQUIP.....	---	15,244	---	15,244	---	---
104 ITEMS LESS THAN \$5 MILLION.....	---	5,071	---	5,071	---	---
OTHER EXPENDABLE ORDNANCE						
105 ANTI-SHIP MISSILE DECOY SYSTEM.....	---	41,962	---	41,962	---	---
106 SUBMARINE TRAINING DEVICE MODS.....	---	75,057	---	67,229	---	-7,828
107 SURFACE TRAINING EQUIPMENT.....	---	233,175	---	231,660	---	-1,515
-----						
TOTAL, ORDNANCE SUPPORT EQUIPMENT.....		1,133,944		1,033,659		-100,285

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST QTY	AMOUNT	COMMITTEE RECOMMENDED QTY	AMOUNT	CHANGE FROM REQUEST QTY	AMOUNT
CIVIL ENGINEERING SUPPORT EQUIPMENT						
108 PASSENGER CARRYING VEHICLES.....	---	4,562	---	4,562	---	---
109 GENERAL PURPOSE TRUCKS.....	---	10,974	---	10,974	---	---
110 CONSTRUCTION & MAINTENANCE EQUIP.....	---	43,191	---	43,191	---	---
111 FIRE FIGHTING EQUIPMENT.....	---	21,142	---	11,376	---	-9,766
112 TACTICAL VEHICLES.....	---	33,432	---	32,004	---	-1,428
114 POLLUTION CONTROL EQUIPMENT.....	---	2,633	---	2,633	---	---
115 ITEMS UNDER \$5 MILLION.....	---	53,467	---	53,467	---	---
116 PHYSICAL SECURITY VEHICLES.....	---	1,173	---	1,173	---	---
TOTAL, CIVIL ENGINEERING SUPPORT EQUIPMENT.....		170,574		159,380		-11,194
SUPPLY SUPPORT EQUIPMENT						
117 SUPPLY EQUIPMENT.....	---	16,730	---	16,730	---	---
118 FIRST DESTINATION TRANSPORTATION.....	---	5,389	---	5,389	---	---
119 SPECIAL PURPOSE SUPPLY SYSTEMS.....	---	654,674	---	617,522	---	-37,152
TOTAL, SUPPLY SUPPORT EQUIPMENT.....		676,793		639,641		-37,152

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST QTY	AMOUNT	COMMITTEE RECOMMENDED QTY	AMOUNT	CHANGE FROM REQUEST QTY	AMOUNT
PERSONNEL AND COMMAND SUPPORT EQUIPMENT						
TRAINING DEVICES						
120 TRAINING SUPPORT EQUIPMENT.....	---	3,633	---	3,633	---	---
121 TRAINING AND EDUCATION EQUIPMENT.....	---	97,636	---	90,751	---	-6,885
COMMAND SUPPORT EQUIPMENT						
122 COMMAND SUPPORT EQUIPMENT.....	---	66,102	---	50,434	---	-15,668
123 MEDICAL SUPPORT EQUIPMENT.....	---	3,633	---	10,633	---	+7,000
125 NAVAL MIP SUPPORT EQUIPMENT.....	---	6,097	---	6,097	---	---
126 OPERATING FORCES SUPPORT EQUIPMENT.....	---	16,905	---	16,905	---	---
127 C4ISR EQUIPMENT.....	---	30,146	---	25,831	---	-4,315
128 ENVIRONMENTAL SUPPORT EQUIPMENT.....	---	21,986	---	21,986	---	---
129 PHYSICAL SECURITY EQUIPMENT.....	---	160,046	---	160,046	---	---
130 ENTERPRISE INFORMATION TECHNOLOGY.....	---	56,899	---	54,833	---	-2,066
133 NEXT GENERATION ENTERPRISE SERVICE.....	---	122,832	---	122,832	---	---
TOTAL, PERSONNEL AND COMMAND SUPPORT EQUIPMENT.....		585,915		563,981		-21,934
134 SPARES AND REPAIR PARTS.....	---	375,608	---	341,591	---	-34,017
CLASSIFIED PROGRAMS.....	---	16,346	---	16,346	---	---
TOTAL, OTHER PROCUREMENT, NAVY.....		9,652,956		9,123,068		-529,888

**EXPLANATION OF PROJECT LEVEL ADJUSTMENTS**  
[In thousands of dollars]

P-1		Budget Request	Committee Recommended	Change from Request
2	<b>SURFACE COMBATANT HM&amp;E</b>	31,583	31,561	-22
	Twisted rudder installation early to need		-22	
3	<b>OTHER NAVIGATION EQUIPMENT</b>	77,404	72,744	-4,660
	Surface Navy ECDIS hardware B kit contract award and installation delay		-4,660	
5	<b>DDG MOD</b>	566,140	566,316	176
	Aegis modernization testing excess to need		-5,000	
	Combat system ship qualification trials excess to need		-7,650	
	DDG modernization HME (MCS/DCS) installation excess growth		-1,174	
	Program increase - integrated training and maintenance support system		9,000	
	Program increase - water purification systems		5,000	
6	<b>FIREFIGHTING EQUIPMENT</b>	18,223	17,547	-676
	SOPV replacement installation cost growth		-676	
8	<b>LHA/LHD MIDLIFE</b>	95,651	79,563	-16,088
	Conjunctive alterations unjustified growth		-5,819	
	Machinery control system NRE early to need		-10,269	
9	<b>POLLUTION CONTROL EQUIPMENT</b>	23,910	21,820	-2,090
	OPA improvements unit cost growth		-2,090	
12	<b>LCS CLASS SUPPORT EQUIPMENT</b>	19,426	23,426	4,000
	Program increase - water purification systems		4,000	
13	<b>SUBMARINE BATTERIES</b>	26,290	23,397	-2,893
	Virginia class unit cost growth		-993	
	Battery installation test equipment previously funded		-1,000	
	ABMS tech refresh previously funded		-900	
21	<b>ITEMS LESS THAN \$5 MILLION</b>	102,543	87,857	-14,686
	MCRRS contract award delays		-1,818	
	Machinery plant upgrades early to need		-6,898	
	Machinery plant upgrades installation early to need		-5,970	
25	<b>REACTOR COMPONENTS</b>	465,726	450,358	-15,368
	Program decrease - unit cost growth		-5,311	
	Program decrease - unit cost growth		-2,656	
	Program decrease - unit cost growth		-1,297	
	Program decrease - unjustified request in field change procurement		-6,104	
27	<b>STANDARD BOATS</b>	79,102	67,102	-12,000
	CRF boat simulators unjustified request		-12,000	



P-1	Budget Request	Committee Recommended	Change from Request
<b>29 LCS COMMON MISSION MODULES EQUIPMENT</b>	<b>51,553</b>	<b>38,730</b>	<b>-12,823</b>
CMPT MPTS tech modernization unjustified growth		-1,931	
EMM/ANSQS-62 training equipment unjustified request		-3,692	
Mission bay training devices - ASW unjustified request		-7,200	
<b>30 LCS MCM MISSION MODULES</b>	<b>197,129</b>	<b>163,635</b>	<b>-33,494</b>
Unmanned minesweeping module unit cost growth		-3,334	
Knifefish unit cost growth		-1,800	
AN/AQS-20C early to need		-28,360	
<b>31 LCS ASW MISSION MODULES</b>	<b>27,754</b>	<b>24,617</b>	<b>-3,137</b>
Variable depth sonar unit cost growth		-3,137	
<b>32 LCS SUW MISSION MODULES</b>	<b>26,566</b>	<b>14,598</b>	<b>-11,968</b>
Surface-to-surface missile module excess to need		-11,968	
<b>33 LCS IN-SERVICE MODERNIZATION</b>	<b>84,972</b>	<b>85,714</b>	<b>742</b>
Habitability mod (Freedom variant) unit cost growth		-2,972	
LCS modernization (Independence variant) installation cost growth		-3,286	
Program increase - modernization of combat and communication systems and installation acceleration		7,000	
<b>34 SMALL &amp; MEDIUM UUV</b>	<b>40,547</b>	<b>0</b>	<b>-40,547</b>
Knifefish concurrency		-29,946	
Razorback concurrency		-10,601	
<b>36 SPQ-9B RADAR</b>	<b>26,195</b>	<b>21,664</b>	<b>-4,531</b>
AN/SPQ-9B radar FMP kits prior year carryover		-4,531	
<b>37 AN/SQQ-89 SURF ASW COMBAT SYSTEM</b>	<b>125,237</b>	<b>121,966</b>	<b>-3,271</b>
AN/SQQ-89A(V)15 kits and technology insertion cost growth		-1,880	
AN/SQQ-89A(V)15 kits technology insertion cost growth		-1,391	
<b>38 SSN ACOUSTICS EQUIPMENT</b>	<b>366,968</b>	<b>354,605</b>	<b>-12,363</b>
Towed array refurbishment and upgrades failure to comply with congressionally directed reduction		-2,348	
Low cost conformal array kits contract delays		-10,015	
<b>40 SUBMARINE ACOUSTIC WARFARE SYSTEM</b>	<b>23,545</b>	<b>22,331</b>	<b>-1,214</b>
CSA MK3 engineering changes excess growth		-1,214	
<b>44 AN/SLQ-32</b>	<b>420,154</b>	<b>348,558</b>	<b>-71,596</b>
SEWIP block 1B2 for USCG ship forward fit contract delays		-1,410	
FMP block 1B3 for SLQ-32(V)6 previously funded		-2,467	
Block 2 electronic support systems installation cost growth		-1,961	
Block 3 kit early to need		-65,758	
<b>45 SHIPBOARD IW EXPLOIT</b>	<b>194,758</b>	<b>193,440</b>	<b>-1,318</b>
SSEE modifications kits unit cost growth		-1,318	

P-1		Budget Request	Committee Recommended	Change from Request
47	COOPERATIVE ENGAGEMENT CAPABILITY Common array block antenna previously funded	35,128	30,452 -4,676	-4,676
56	ASHORE ATC EQUIPMENT MATCALS improvements cost growth	72,406	71,037 -1,369	-1,369
57	AFLOAT ATC EQUIPMENT ACLS mod kits installation cost growth	67,410	65,779 -1,631	-1,631
58	ID SYSTEMS AN/UPX 24(V) mode S production engineering previously funded	26,059	25,506 -553	-553
61	TACTICAL/MOBILE C41 SYSTEMS DJC2 increment I system enhancements unit cost growth	36,226	33,419 -2,807	-2,807
62	DCGS-N DCGS-N increment 2 kit unit cost discrepancy	21,788	21,427 -361	-361
63	CANES CANES afloat technical insertion installation cost growth CANES ashore installation previously funded	426,654	420,071 -3,885 -2,698	-6,583
66	GPETE Engineering and documentation unjustified growth	13,028	12,214 -814	-814
70	ITEMS LESS THAN \$5 MILLION Next generation surface search radar kits unit cost growth Next generation surface search radar installation early to need	168,436	159,654 -2,462 -6,320	-8,782
71	SHIPBOARD TACTICAL COMMUNICATIONS DMR IW and MUOS system procurement afloat previously funded DMR IW and MUOS upgrade kits previously funded MR MUOS upgrade kits installation cost growth	55,853	41,385 -9,980 -2,246 -2,242	-14,468
72	SHIP COMMUNICATIONS AUTOMATION STACC equipment unit cost growth STACC installation cost growth	137,861	122,380 -12,748 -2,733	-15,481
73	COMMUNICATIONS ITEMS UNDER \$5M Navy expeditionary C4I procurement unjustified growth BFTN failure to comply with fiscal year 2019 congressional direction BFTN DSA failure to comply with fiscal year 2019 congressional direction	35,093	29,486 -3,242 -963 -1,402	-5,607
75	SUBMARINE COMMUNICATION EQUIPMENT Buoy shape improvements unjustified request	69,643	60,794 -8,849	-8,849

P-1	Budget Request	Committee Recommended	Change from Request
76 SATELLITE COMMUNICATIONS SYSTEMS	45,841	45,084	-757
GBS afloat receive terminal DSA previously funded		-757	
77 NAVY MULTIBAND TERMINAL (NMT)	88,021	78,896	-9,125
Afloat ship kit cost growth		-5,203	
Afloat installation cost excess growth		-2,104	
Assured C2 modems installation cost excess growth		-1,818	
85 SONOBUOYS - ALL TYPES	260,644	285,644	25,000
Program increase		25,000	
88 AIRCRAFT SUPPORT EQUIPMENT	145,601	135,211	-10,390
Transformer rectifier procurement early to need		-10,390	
90 METEOROLOGICAL EQUIPMENT	14,687	12,407	-2,280
ASOS upgrades unit cost growth		-2,280	
92 AIRBORNE MINE COUNTERMEASURES	19,250	16,330	-2,920
Modifications unjustified growth		-2,920	
94 AVIATION SUPPORT EQUIPMENT	55,415	62,389	6,974
Portable electronic maintenance aids contract delays		-3,026	
Program increase - advanced skills management legacy system upgrades		10,000	
97 HARPOON SUPPORT EQUIPMENT	1,100	0	-1,100
Unjustified request		-1,100	
98 SHIP MISSILE SUPPORT EQUIPMENT	228,104	204,826	-23,278
I-stalker kits unit cost growth		-1,460	
Ship self defense system combat system ship qualification trial unjustified growth		-5,002	
SPY radar refurbishment previously funded		-7,078	
Nulka decoys unit cost growth		-3,500	
SSDS COTS conversion kits budget request discrepancy		-6,238	
100 STRATEGIC MISSILE SYSTEMS EQUIP	280,510	221,764	-58,746
RT-WEG unjustified request		-3,035	
Flight test instrumentation refresh unjustified growth		-10,199	
Navigation SSI increment 8 engineering and test unjustified growth		-26,544	
SSI increment 15 previously funded		-18,968	
101 SSN COMBAT CONTROL SYSTEMS	148,547	143,678	-4,869
Weapons launch systems tech insertion excess growth		-4,869	
102 ASW SUPPORT EQUIPMENT	21,130	18,181	-2,949
High speed maneuverable surface target contract award delay		-2,949	

P-1	Budget Request	Committee Recommended	Change from Request
<b>106 SUBMARINE TRAINING DEVICE MODS</b>	<b>75,057</b>	<b>67,229</b>	<b>-7,828</b>
VA SMMTT new normal software mods unjustified growth		-8,871	
SMMTT PH III mods kit cost growth		-3,957	
Program increase - integrated training and maintenance support system		5,000	
<b>107 SURFACE TRAINING EQUIPMENT</b>	<b>233,175</b>	<b>231,660</b>	<b>-1,515</b>
BFFT ship sets excess to need		-1,515	
<b>111 FIRE FIGHTING EQUIPMENT</b>	<b>21,142</b>	<b>11,376</b>	<b>-9,766</b>
Hazardous reseponse vehicle - medium contrac award delays		-4,868	
Truck fire fighting brush/grass contract award delays		-622	
Truck fire structural pumper contract award delays		-3,193	
Truck fire fighting agent resupplier water contract award delays		-1,083	
<b>112 TACTICAL VEHICLES</b>	<b>33,432</b>	<b>32,004</b>	<b>-1,428</b>
JLTV contract award delay		-1,428	
<b>119 SPECIAL PURPOSE SUPPLY SYSTEMS</b>	<b>654,674</b>	<b>617,522</b>	<b>-37,152</b>
Insufficient budget justification		-37,152	
<b>121 TRAINING AND EDUCATION EQUIPMENT</b>	<b>97,636</b>	<b>90,751</b>	<b>-6,885</b>
Prior year underexecution		-6,885	
<b>122 COMMAND SUPPORT EQUIPMENT</b>	<b>66,102</b>	<b>50,434</b>	<b>-15,668</b>
Prior year underexecution		-15,668	
<b>123 MEDICAL SUPPORT EQUIPMENT</b>	<b>3,633</b>	<b>10,633</b>	<b>7,000</b>
Program increase - expeditionary medical facilities		7,000	
<b>127 C4ISR EQUIPMENT</b>	<b>30,146</b>	<b>25,831</b>	<b>-4,315</b>
Deployable mission support systems kits schedule delays		-4,315	
<b>130 ENTERPRISE INFORMATION TECHNOLOGY</b>	<b>56,899</b>	<b>54,833</b>	<b>-2,066</b>
MILCON outfitting costs unjustified growth		-2,066	
<b>134 SPARES AND REPAIR PARTS</b>	<b>375,608</b>	<b>341,591</b>	<b>-34,017</b>
Excess program growth		-34,017	

## PROCUREMENT, MARINE CORPS

Fiscal year 2019 appropriation .....	\$2,719,870,000
Fiscal year 2020 budget request .....	3,090,449,000
Committee recommendation .....	2,826,951,000
Change from budget request .....	- 263,498,000

The Committee recommends an appropriation of \$2,826,951,000 for Procurement, Marine Corps which will provide the following program in fiscal year 2020:

(DOLLARS IN THOUSANDS)

		BUDGET REQUEST QTY AMOUNT		COMMITTEE RECOMMENDED QTY AMOUNT		CHANGE FROM REQUEST QTY AMOUNT
PROCUREMENT, MARINE CORPS						
WEAPONS AND COMBAT VEHICLES						
TRACKED COMBAT VEHICLES						
1	AAV7A1 PIP.....	---	39,495	---	39,495	---
2	AMPHIBIOUS COMBAT VEHICLE 1.1.....	56	317,935	56	313,131	-4,804
3	LAV PIP.....	---	60,734	---	60,734	---
ARTILLERY AND OTHER WEAPONS						
4	155MM LIGHTWEIGHT TOWED HOWITZER.....	---	25,065	---	25,065	---
5	ARTILLERY WEAPONS SYSTEM.....	---	100,002	---	89,974	-10,028
6	WEAPONS AND COMBAT VEHICLES UNDER \$5 MILLION.....	---	31,945	---	31,945	---
OTHER SUPPORT						
7	MODIFICATION KITS.....	---	22,760	---	22,760	---
TOTAL, WEAPONS AND COMBAT VEHICLES.....			597,936		583,104	-14,832
GUIDED MISSILES AND EQUIPMENT						
GUIDED MISSILES						
8	GROUND BASED AIR DEFENSE.....	---	175,998	---	127,502	-48,496
9	JAVELIN.....	97	20,207	97	20,207	---
10	FOLLOW ON TO SMAW/FOAAWS.....	---	21,913	---	21,913	---
11	ANTI-ARMOR WEAPONS SYSTEM-HEAVY (AAWS-H)/TOW.....	---	60,501	---	60,501	---
12	GUIDED MLRS ROCKET (GMLRS).....	210	29,062	210	27,846	-1,216
TOTAL, GUIDED MISSILES AND EQUIPMENT.....			307,681		257,969	-49,712

(DOLLARS IN THOUSANDS)

		BUDGET REQUEST QTY	AMOUNT	COMMITTEE RECOMMENDED QTY	AMOUNT	CHANGE FROM REQUEST QTY	AMOUNT
COMMUNICATIONS AND ELECTRONICS EQUIPMENT							
COMMAND AND CONTROL SYSTEMS							
13	COMMON AVIATION COMMAND AND CONTROL SYS.....	---	37,203	---	30,812	---	-6,391
REPAIR AND TEST EQUIPMENT							
14	REPAIR AND TEST EQUIPMENT.....	---	55,156	---	55,156	---	---
15	MODIFICATION KITS.....	---	4,945	---	4,945	---	---
OTHER SUPPORT (TEL)							
COMMAND AND CONTROL							
16	ITEMS UNDER \$5 MILLION (COMM & ELEC).....	---	112,124	---	80,873	---	-31,251
17	AIR OPERATIONS C2 SYSTEMS.....	---	17,408	---	17,408	---	---
RADAR + EQUIPMENT (NON-TEL)							
18	RADAR SYSTEMS.....	---	329	---	329	---	---
19	GROUND/AIR TASK ORIENTED RADAR.....	8	273,022	8	273,022	---	---
INTELL/COMM EQUIPMENT (NON-TEL)							
21	GCSS-MC.....	---	4,484	---	4,484	---	---
22	FIRE SUPPORT SYSTEM.....	---	35,488	---	35,488	---	---
23	INTELLIGENCE SUPPORT EQUIPMENT.....	---	56,896	---	54,201	---	-2,695
25	UNMANNED AIR SYSTEMS (INTEL).....	---	34,711	---	28,036	---	-6,675
26	DCGS-MC.....	---	32,562	---	32,562	---	---
OTHER SUPPORT (NON-TEL)							
30	NEXT GENERATION ENTERPRISE NETWORK (NGEN).....	---	114,901	---	68,924	---	-45,977
31	COMMON COMPUTER RESOURCES.....	---	51,094	---	51,094	---	---
32	COMMAND POST SYSTEMS.....	---	108,897	---	69,381	---	-39,516
33	RADIO SYSTEMS.....	---	227,320	---	195,133	---	-32,187
34	COMM SWITCHING & CONTROL SYSTEMS.....	---	31,685	---	23,781	---	-7,904
35	COMM & ELEC INFRASTRUCTURE SUPPORT.....	---	21,140	---	21,140	---	---
36	CYBERSPACE ACTIVITIES.....	---	27,632	---	27,632	---	---
TOTAL, COMMUNICATIONS AND ELECTRONICS EQUIPMENT.....			1,246,997		1,074,401		-172,596
SUPPORT VEHICLES							
ADMINISTRATIVE VEHICLES							
37	COMMERCIAL CARGO VEHICLES.....	---	28,913	---	28,913	---	---

(DOLLARS IN THOUSANDS)

		BUDGET REQUEST QTY	AMOUNT	COMMITTEE RECOMMENDED QTY	AMOUNT	CHANGE FROM REQUEST QTY	AMOUNT
	TACTICAL VEHICLES						
38	MOTOR TRANSPORT MODIFICATIONS.....	---	19,234	---	19,234	---	---
39	JOINT LIGHT TACTICAL VEHICLE.....	1,398	558,107	1,398	555,648	---	-2,459
40	FAMILY OF TACTICAL TRAILERS.....	---	2,693	---	2,693	---	---
	TOTAL, SUPPORT VEHICLES.....		608,947		606,488		-2,459
	ENGINEER AND OTHER EQUIPMENT						
41	ENGINEER AND OTHER EQUIPMENT ENVIRONMENTAL CONTROL EQUIP ASSORT.....	---	495	---	495	---	---
42	TACTICAL FUEL SYSTEMS.....	---	52	---	52	---	---
43	POWER EQUIPMENT ASSORTED.....	---	22,441	---	22,441	---	---
44	AMPHIBIOUS SUPPORT EQUIPMENT.....	---	7,101	---	7,101	---	---
45	EOD SYSTEMS.....	---	44,700	---	44,700	---	---
46	MATERIALS HANDLING EQUIPMENT PHYSICAL SECURITY EQUIPMENT.....	---	15,404	---	15,404	---	---
47	GENERAL PROPERTY FIELD MEDICAL EQUIPMENT.....	---	2,898	---	2,898	---	---
48	TRAINING DEVICES.....	---	149,567	---	125,668	---	-23,899
49	FAMILY OF CONSTRUCTION EQUIPMENT.....	---	35,622	---	35,622	---	---
50	FAMILY OF INTERNALLY TRANSPORTABLE VEHICLE (ITV).....	---	647	---	647	---	---
51	OTHER SUPPORT ITEMS LESS THAN \$5 MILLION.....	---	10,956	---	10,956	---	---
	TOTAL, ENGINEER AND OTHER EQUIPMENT.....		289,883		265,984		-23,899
52	SPARES AND REPAIR PARTS.....	---	33,470	---	33,470	---	---
	CLASSIFIED PROGRAMS.....	---	5,535	---	5,535	---	---
	TOTAL, PROCUREMENT, MARINE CORPS.....		3,090,449		2,826,951		-263,498



EXPLANATION OF PROJECT LEVEL ADJUSTMENTS  
[In thousands of dollars]

P-1	Budget Request	Committee Recommended	Change from Request
2	<b>AMPHIBIOUS COMBAT VEHICLE 1.1</b>	313,131	-4,804
	Excess engineering change orders	-4,804	
5	<b>ARTILLERY WEAPONS SYSTEM</b>	89,974	-10,028
	Launcher unit cost growth	-5,712	
	Peculiar support equipment previously funded	-4,316	
8	<b>GROUND BASED AIR DEFENSE</b>	127,502	-48,496
	Excess to need	-48,496	
12	<b>GUIDED MLRS ROCKET (GMLRS)</b>	27,846	-1,216
	Unit cost discrepancy	-1,216	
13	<b>COMMON AVIATION COMMAND AND CONTROL SYS</b>	30,812	-6,391
	AN/MRC-13 communications subsystems upgrades unjustified growth	-6,391	
16	<b>ITEMS UNDER \$5 MILLION (COMM &amp; ELEC)</b>	80,873	-31,251
	Squad thermal system unit cost growth	-15,983	
	Squad BNVG unit cost growth	-13,193	
	Fly-away broadcast system previously funded	-2,075	
23	<b>INTELLIGENCE SUPPORT EQUIPMENT</b>	54,201	-2,695
	Modification kits and upgrades unjustified growth	-2,695	
25	<b>UNMANNED AIR SYSTEMS (INTEL)</b>	28,036	-6,675
	Long range/long endurance cost growth	-2,795	
	Short range/short endurance cost growth	-2,487	
	Vertical takeoff and landing system cost growth	-1,393	
30	<b>NEXT GENERATION ENTERPRISE NETWORK (NGEN)</b>	68,924	-45,977
	End user devices tech refresh previously funded	-15,998	
	Network equipment tech refresh excess growth	-29,979	
32	<b>COMMAND POST SYSTEMS</b>	69,381	-39,516
	NOTM utility task vehicle unjustified request	-28,000	
	Dismounted handheld systems early to need	-11,516	
33	<b>RADIO SYSTEMS</b>	195,133	-32,187
	MCMP unit cost growth	-5,656	
	TCM ground radios sparing early to need	-17,629	
	Line of sight system replacements previously funded	-8,902	

P-1	Budget Request	Committee Recommended	Change from Request
34 COMM SWITCHING & CONTROL SYSTEMS	31,685	23,781	-7,904
ECP small form factor previously funded		-7,904	
39 JOINT LIGHT TACTICAL VEHICLE	558,107	555,648	-2,459
Engineering change orders previously funded		-2,459	
48 TRAINING DEVICES	149,567	125,668	-23,899
ODS unjustified request		-23,899	

## AIRCRAFT PROCUREMENT, AIR FORCE

Fiscal year 2019 appropriation .....	\$17,112,337,000
Fiscal year 2020 budget request .....	16,784,279,000
Committee recommendation .....	17,877,933,000
Change from budget request .....	+1,093,654,000

The Committee recommends an appropriation of \$17,877,933,000 for Aircraft Procurement, Air Force which will provide the following program in fiscal year 2020:

(DOLLARS IN THOUSANDS)

		BUDGET REQUEST	AMOUNT	COMMITTEE RECOMMENDED	AMOUNT	CHANGE FROM REQUEST	AMOUNT
		QTY		QTY		QTY	
AIRCRAFT PROCUREMENT, AIR FORCE							
COMBAT AIRCRAFT							
TACTICAL FORCES							
1	F-35.....	48	4,274,359	60	5,126,409	+12	+852,050
2	F-35 (AP-CY).....	---	655,500	---	655,500	---	---
3	F-15E.....	8	1,050,000	8	985,500	---	-64,500
TOTAL, COMBAT AIRCRAFT.....			5,979,859	6,767,409		+787,550	
AIRLIFT AIRCRAFT/TACTICAL AIRLIFT							
4	KC-46A TANKER.....	12	2,234,529	12	2,198,529	---	-36,000
OTHER AIRLIFT							
5	C-130J.....	---	12,156	4	404,156	+4	+392,000
6	MC-130J.....	8	871,207	8	805,207	---	-66,000
9	MC-130J (AP).....	---	40,000	---	40,000	---	---
TOTAL, AIRLIFT AIRCRAFT.....			3,157,892	3,447,892		+290,000	
OTHER AIRCRAFT							
HELICOPTERS							
10	COMBAT RESCUE HELICOPTER.....	12	884,235	12	876,035	---	-8,200
MISSION SUPPORT AIRCRAFT							
11	C-37A.....	2	161,000	2	161,000	---	---
13	CIVIL AIR PATROL A/C.....	4	2,767	4	11,000	---	+8,233
OTHER AIRCRAFT							
14	TARGET DRONES.....	37	130,837	37	130,837	---	---
15	COMPASS CALL.....	1	114,095	1	114,095	---	---
17	HQ-9.....	3	189,205	3	174,805	---	-14,400
TOTAL, OTHER AIRCRAFT.....			1,482,139	1,467,772		-14,367	

(DOLLARS IN THOUSANDS)

		BUDGET REQUEST QTY	AMOUNT	COMMITTEE RECOMMENDED QTY	AMOUNT	CHANGE FROM REQUEST QTY	AMOUNT
MODIFICATION OF INSERVICE AIRCRAFT							
STRATEGIC AIRCRAFT							
19	B-2A.....	---	9,582	---	9,582	---	---
20	B-1B.....	---	22,111	---	22,111	---	---
21	B-52.....	---	69,648	---	69,648	---	---
22	LARGE AIRCRAFT INFRARED COUNTERMEASURES.....	---	43,758	---	43,758	---	---
TACTICAL AIRCRAFT							
23	A-10.....	---	132,069	---	132,069	---	---
24	E-11 BACN/HAG.....	---	70,027	---	70,027	---	---
25	F-15.....	---	481,073	---	480,443	---	-630
26	F-16.....	---	234,782	---	308,258	---	+73,476
27	F-22A.....	---	323,597	---	323,597	---	---
29	F-35 MODIFICATIONS.....	---	343,590	---	343,590	---	---
30	F-15 EPAW.....	---	149,047	---	149,047	---	---
31	INCREMENT 3.2b.....	---	20,213	---	20,213	---	---
33	KC-46A MODS.....	---	10,213	---	5,213	---	-5,000
AIRLIFT AIRCRAFT							
34	C-5.....	---	73,550	---	73,550	---	---
36	C-17A.....	---	60,244	---	60,244	---	---
37	C-21.....	---	216	---	216	---	---
38	C-32A.....	---	11,511	---	11,511	---	---
39	C-37A.....	---	435	---	435	---	---
TRAINER AIRCRAFT							
40	GLIDER MODS.....	---	138	---	138	---	---
41	T6.....	---	11,826	---	11,826	---	---
42	T-1.....	---	26,787	---	26,787	---	---
43	T-38.....	---	37,341	---	37,341	---	---

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST QTY	AMOUNT	COMMITTEE RECOMMENDED QTY	AMOUNT	CHANGE FROM REQUEST QTY	AMOUNT
OTHER AIRCRAFT						
44 U-2 MODS.....	---	86,896	---	106,896	---	+20,000
45 KC-10A (ATCA).....	---	2,108	---	2,108	---	---
46 C-12.....	---	3,021	---	3,021	---	---
47 VC-25A MOD.....	---	48,624	---	48,624	---	---
48 C-40.....	---	256	---	256	---	---
49 C-130.....	---	52,066	---	186,066	---	+134,000
50 C130J MODS.....	---	141,686	---	141,686	---	---
51 C-135.....	---	124,491	---	122,616	---	-1,875
53 COMPASS CALL MODS.....	---	110,754	---	110,754	---	---
54 COMBAT FLIGHT INSPECTION (CFIN).....	---	508	---	508	---	---
55 RC-135.....	---	227,673	---	227,673	---	---
56 E-3.....	---	216,299	---	128,992	---	-87,307
57 E-4.....	---	58,477	---	58,477	---	---
58 E-8.....	---	28,778	---	28,778	---	---
59 AIRBORNE WARNING AND CONTROL SYSTEM.....	---	36,000	---	36,000	---	---
60 FAMILY OF BEYOND LINE-OF-SIGHT TERMINALS.....	---	7,910	---	7,910	---	---
61 H-1.....	---	3,817	---	3,817	---	---
62 H-60.....	---	20,879	---	20,879	---	---
63 RQ-4 UAV MODS.....	---	1,704	---	1,704	---	---
64 HC/MC-130 MODIFICATIONS.....	---	51,482	---	51,482	---	---
65 OTHER AIRCRAFT.....	---	50,098	---	50,098	---	---
66 MQ-9 MODS.....	---	383,594	---	282,094	---	-101,500
68 CV-22 MODS.....	---	65,348	---	65,348	---	---
TOTAL, MODIFICATION OF INSERVICE AIRCRAFT.....		3,854,227		3,885,391		+31,164

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST QTY	AMOUNT	COMMITTEE RECOMMENDED QTY	AMOUNT	CHANGE FROM REQUEST QTY	AMOUNT
AIRCRAFT SPARES AND REPAIR PARTS						
69 INITIAL SPARES/REPAIR PARTS.....	---	708,230	---	708,230	---	---
AIRCRAFT SUPPORT EQUIPMENT AND FACILITIES						
COMMON SUPPORT EQUIPMENT						
72 AIRCRAFT REPLACEMENT SUPPORT EQUIP.....	---	84,938	---	84,938	---	---
POST PRODUCTION SUPPORT						
73 B-2A.....	---	1,403	---	1,403	---	---
74 B-2B.....	---	42,234	---	42,234	---	---
75 B-52.....	---	4,641	---	4,641	---	---
76 C-17A.....	---	124,805	---	124,805	---	---
79 F-15 .....	---	2,589	---	2,589	---	---
81 F-16 POST PRODUCTION SUPPORT.....	---	15,348	---	15,348	---	---
84 RQ-4 POST PRODUCTION CHARGES.....	---	47,246	---	47,246	---	---
INDUSTRIAL PREPAREDNESS						
86 INDUSTRIAL PREPAREDNESS.....	---	17,705	---	17,705	---	---
WAR CONSUMABLES						
88 WAR CONSUMABLES.....	---	32,102	---	32,102	---	---
OTHER PRODUCTION CHARGES						
88 OTHER PRODUCTION CHARGES.....	---	1,194,728	---	1,194,035	---	-693
TOTAL, AIRCRAFT SUPPORT EQUIPMENT AND FACILITIES....						
		1,567,739		1,567,046		-693
CLASSIFIED PROGRAMS.....	---	34,193	---	34,193	---	---
TOTAL, AIRCRAFT PROCUREMENT, AIR FORCE.....						
		16,784,279		17,877,933		+1,093,654

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS  
[In thousands of dollars]

P-1	Budget Request	Committee Recommended	Change from Request
1 F-35	4,274,359	5,126,409	852,050
Unit cost adjustment		-190,750	
Program increase - twelve aircraft		1,042,800	
3 F-15EX	1,050,000	985,500	-64,500
Excess to need		-64,500	
5 KC-46	2,234,529	2,198,529	-36,000
Unit cost adjustment		-36,000	
6 C-130J	12,156	404,156	392,000
Program increase - four aircraft for the Air Force Reserve		392,000	
8 MC-130J	871,207	805,207	-66,000
Excess to need		-66,000	
10 COMBAT RESCUE HELICOPTER	884,235	876,035	-8,200
Other flyaway costs unjustified		-8,200	
12 CIVIL AIR PATROL	2,767	11,000	8,233
Program increase		8,233	
17 MQ-9	189,205	174,805	-14,400
Unit cost adjustment		-14,400	
25 F-15	481,073	480,443	-630
F-15C MUOS ahead of need		-630	
26 F-16	234,782	308,258	73,476
Aggressors update excess to need		-1,524	
AESA radar upgrades		75,000	
33 KC-46 MODS	10,213	5,213	-5,000
Funding ahead of need		-5,000	
44 U-2	86,896	106,896	20,000
Program increase - avionics tech refresh upgrade		20,000	
49 C-130	52,066	186,066	134,000
Program increase - engine enhancement program		79,000	
Program increase - eight-blade propeller upgrade		55,000	
51 C-135	124,491	122,616	-1,875
Low cost mods slow execution		-1,000	
RPI installs funded with prior year funds		-875	
56 E-3	216,299	128,992	-87,307
NATO AWACS -Air Force requested transfer to line 88		-87,307	



P-1		Budget Request	Committee Recommended	Change from Request
66	MQ-9 MODS	383,594	282,094	-101,500
	DAS-4 excess to need		-101,500	
88	OTHER PRODUCTION CHARGES	1,194,728	1,194,035	-693
	F-22 Next Gen Lab excess to need		-72,000	
	RQ-4 delayed obligations		-16,000	
	NATO AWACS - Air Force requested transfer from line 56		87,307	

## RECAPITALIZING THE F-15C/D FLEET

The Committee recommendation includes \$985,500,000 to procure the first eight new-build F-15EX aircraft. The Committee finds that the F-15EX request, while unanticipated, must be considered within the context of the aging F-15C/D fleet. The Committee views the F-15EX as the fastest and most cost-effective path to preserving the F-15C/D fleet, including Air National Guard units stationed in California, Florida, Louisiana, Massachusetts, and Oregon. According to the Air Force, the F-15C/D fleet has consumed 83 percent of its service life on average, with twelve aircraft currently over 100 percent.

Additionally, the Committee is concerned by the growing number of aircraft that are failing longeron inspections. The Committee notes that prior to the fiscal year 2020 request, the Air Force had planned on longeron and wing service life extension programs designed to keep the F-15C/Ds flying past 2040. The Committee has not seen any analysis, including the “Air Force We Need” analysis, that denies the need to continue operating the F-15C/D fleet and other “fourth generation” fighter aircraft such as the F-15E, A-10, and F-16 well past 2030, or disputes that such aircraft will continue to make critical contributions to the implementation of the National Defense Strategy. The F-15EX program will begin recapitalizing this fleet with a new aircraft with an estimated service life of 20,000 hours and possessing upgrades that the Air Force has been pursuing as modifications to the F-15C/D fleet. The Committee further finds that considerations of parts commonality, low conversion cost, and operator familiarity make the F-15EX procurement a sensible if regrettably necessary investment.

At the same time, the Committee notes that the F-15EX request has been submitted with key questions unanswered, such as the specific acquisition strategy and timeline. The Committee directs the Secretary of the Air Force to submit a report to the congressional defense committees, not later than 30 days prior to issuing a final request for proposal or executing a contract action for the procurement of F-15EX aircraft, which details an approved acquisition strategy along with updates to the fielding timeline and cost estimates (if applicable), an explanation of the scope and schedule for the testing plan, and options for accelerating fielding in comparison to the budget exhibits submitted with the fiscal year 2020 request.

## MISSILE PROCUREMENT, AIR FORCE

Fiscal year 2019 appropriation .....	\$2,585,004,000
Fiscal year 2020 budget request .....	2,889,187,000
Committee recommendation .....	2,789,287,000
Change from budget request .....	- 99,900,000

The Committee recommends an appropriation of \$2,789,287,000 for Missile Procurement, Air Force which will provide the following program in fiscal year 2020:

(DOLLARS IN THOUSANDS)

		BUDGET REQUEST QTY	AMOUNT		COMMITTEE RECOMMENDED QTY	AMOUNT	CHANGE FROM REQUEST QTY	AMOUNT
MISSILE PROCUREMENT, AIR FORCE								
BALLISTIC MISSILES								
1	MISSILE REPLACEMENT EQUIPMENT - BALLISTIC	---	55,888	---	55,888	---	---	---
	MISSILE REPLACEMENT EQ-BALLISTIC.....	---		---		---		---
OTHER MISSILES								
TACTICAL								
2	REPLAC EQUIP & WAR CONSUMABLES.....	---	9,100	---	9,100	---	---	---
3	JOINT AIR-TO-GROUND MUNITION.....	60	15,000	60	---	---	---	-15,000
4	JOINT AIR-SURFACE STANDOFF MISSILE (JASSM).....	411	482,525	411	429,525	---	---	-53,000
6	SIDEWINDER (AIM-9X).....	355	160,408	355	160,408	---	---	---
7	AMRAAM.....	220	332,250	220	332,250	---	---	---
8	PREDATOR HELLFIRE MISSILE.....	1,531	118,860	1,531	118,860	---	---	---
9	SMALL DIAMETER BOMB.....	7,078	275,438	7,078	255,288	---	---	-20,150
10	SMALL DIAMETER BOMB II.....	1,175	212,434	1,175	200,684	---	---	-11,750
INDUSTRIAL FACILITIES								
11	INDUSTRIAL PREPAREDNESS/POLLUTION PREVENTION.....	---	801	---	801	---	---	---
TOTAL, OTHER MISSILES.....								
			1,606,816		1,506,916			-99,900
MODIFICATION OF INSERVICE MISSILES								
CLASS IV								
12	ICBM FUZE MOD.....	6	5,000	6	5,000	---	---	---
13	ICBM FUZE MOD.....	---	14,497	---	14,497	---	---	---
14	MM III MODIFICATIONS.....	---	50,831	50,831	59,705	+50,831	---	+8,874
15	AGM-65D MAVERICK.....	---	294	294	294	+294	---	---
16	AIR LAUNCH CRUISE MISSILE.....	---	77,387	77,387	68,513	+77,387	---	-8,874
TOTAL, MODIFICATION OF INSERVICE MISSILES.....								
			148,009		148,009			---
SPARES AND REPAIR PARTS								
18	INITIAL SPARES/REPAIR PARTS.....	---	1,910	---	1,910	---	---	---
19	REPLEN SPARES/REPAIR PARTS.....	---	82,490	---	82,490	---	---	---
SPECIAL PROGRAMS								
23	SPECIAL UPDATE PROGRAMS.....	---	144,553	---	144,553	---	---	---
	CLASSIFIED PROGRAMS.....	---	849,521	---	849,521	---	---	---
TOTAL, SPECIAL PROGRAMS.....								
			994,074		994,074			---
TOTAL, MISSILE PROCUREMENT, AIR FORCE.....								
			2,889,187		2,789,287			-99,900
			=====		=====			=====

**EXPLANATION OF PROJECT LEVEL ADJUSTMENTS**  
**[In thousands of dollars]**

<b>P-1</b>	<b>Budget Request</b>	<b>Committee Recommended</b>	<b>Change from Request</b>
<b>3 JAGM</b>	<b>15,000</b>	<b>0</b>	<b>-15,000</b>
Lack of clear requirement or funding strategy		-15,000	
<b>4 JASSM</b>	<b>482,525</b>	<b>429,525</b>	<b>-53,000</b>
AGM-158D variant ahead of need		-53,000	
<b>9 SMALL DIAMETER BOMB</b>	<b>275,438</b>	<b>255,288</b>	<b>-20,150</b>
Deliveries currently below plan		-18,000	
Obsolescence contracts - unjustified growth		-2,150	
<b>10 SMALL DIAMETER BOMB II</b>	<b>212,434</b>	<b>200,684</b>	<b>-11,750</b>
Unit cost growth		-11,750	
<b>14 MMIII MODIFICATIONS</b>	<b>50,831</b>	<b>59,705</b>	<b>8,874</b>
ICU II - Air Force requested transfer from line 16		8,874	
<b>16 ALCM</b>	<b>77,387</b>	<b>68,513</b>	<b>-8,874</b>
ICU II - Air Force requested transfer to line 14		-8,874	

## SPACE PROCUREMENT, AIR FORCE

Fiscal year 2019 appropriation .....	\$2,343,642,000
Fiscal year 2020 budget request .....	2,414,383,000
Committee recommendation .....	2,368,443,000
Change from budget request .....	-45,940,000

The Committee recommends an appropriation of \$2,368,443,000 for Space Procurement, Air Force which will provide the following program in fiscal year 2020:

(DOLLARS IN THOUSANDS)

		BUDGET REQUEST QTY	AMOUNT		COMMITTEE RECOMMENDED QTY	AMOUNT	CHANGE FROM REQUEST QTY	AMOUNT
SPACE PROCUREMENT, AIR FORCE								
SPACE PROGRAMS								
1	ADVANCED EHF.....	---	31,894	---	31,894	---	---	---
2	AF SATELLITE COMM SYSTEM.....	---	56,298	---	56,298	---	---	---
4	COUNTERSPACE SYSTEMS.....	---	5,700	---	5,700	---	---	---
5	FAMILY OF BEYOND LINE-OF-SIGHT TERMINALS.....	---	34,020	---	24,020	---	---	-10,000
7	GENERAL INFORMATION TECHNOLOGY - SPACE.....	---	3,244	---	3,244	---	---	---
8	GPS III FOLLOW ON.....	1	414,625	1	414,625	---	---	---
9	GPS III SPACE SEGMENT.....	---	31,466	---	31,466	---	---	---
12	SPACE COMMUNICATIONS SECURITY.....	---	32,031	---	32,031	---	---	---
13	MILSATCOM TERMINALS.....	---	11,096	---	11,096	---	---	---
15	EVOLVED EXPENDABLE LAUNCH VEHICLE.....	4	1,237,635	4	1,237,635	---	---	---
16	SBIR HIGH (SPACE).....	---	233,952	---	218,012	---	---	-15,940
17	NUDET DETECTION SYSTEM SPACE.....	---	7,432	---	7,432	---	---	---
18	ROCKET SYSTEM LAUNCH PROGRAM.....	---	11,473	---	11,473	---	---	---
19	SPACE FENCE.....	---	71,784	---	71,784	---	---	---
20	SPACE MODS SPACE.....	---	106,330	---	86,330	---	---	-20,000
21	SPACELIFT RANGE SYSTEM SPACE.....	---	118,140	---	118,140	---	---	---
SPARES AND REPAIR PARTS								
22	INITIAL SPARES/REPAIR PARTS.....	---	7,263	---	7,263	---	---	---
TOTAL, SPACE PROCUREMENT, AIR FORCE.....			2,414,383		2,368,443			-45,940
			=====		=====			=====

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS  
[In thousands of dollars]

P-1		Budget Request	Committee Recommended	Change from Request
5	FAMILY OF BEYOND LINE-OF-SIGHT TERMINALS	34,020	24,020	-10,000
	Underexecution		-10,000	
16	SBIR HIGH (SPACE)	233,952	218,012	-15,940
	Underexecution		-10,000	
	Unjustified cost growth		-8,940	
	Program increase - infrared detectors		3,000	
20	SPACE MODS	106,330	86,330	-20,000
	Underexecution		-20,000	

## PROCUREMENT OF AMMUNITION, AIR FORCE

Fiscal year 2019 appropriation .....	\$1,485,856,000
Fiscal year 2020 budget request .....	— —
Committee recommendation .....	1,602,761,000
Change from budget request .....	+1,602,761,000

The Committee recommends an appropriation of \$1,602,761,000 for Procurement of Ammunition, Air Force which will provide the following program in fiscal year 2020:



(DOLLARS IN THOUSANDS)

	BUDGET REQUEST QTY	AMOUNT	COMMITTEE RECOMMENDED QTY	AMOUNT	CHANGE FROM REQUEST QTY	AMOUNT
PROCUREMENT OF AMMUNITION, AIR FORCE						
1 PROCUREMENT OF AMMO, AIR FORCE						
ROCKETS.....	---	---	---	115,068	---	+115,068
2 CARTRIDGES.....	---	---	---	140,449	---	+140,449
BOMBS						
3 PRACTICE BOMBS.....	---	---	---	29,313	---	+29,313
4 GENERAL PURPOSE BOMBS.....	---	---	---	85,885	---	+85,885
6 JOINT DIRECT ATTACK MUNITION.....	---	---	---	1,019,224	---	+1,019,224
7 B61.....	---	---	---	80,773	---	+80,773
9 FLARE, IR MJU-7B CAD/PAD.....	---	---	---	47,069	---	+47,069
10 EXPLOSIVE ORDNANCE DISPOSAL (EOD).....	---	---	---	6,133	---	+6,133
11 SPARES AND REPAIR PARTS.....	---	---	---	533	---	+533
12 MODIFICATIONS.....	---	---	---	1,291	---	+1,291
13 ITEMS LESS THAN \$5,000,000.....	---	---	---	1,677	---	+1,677
FLARES/FUZES						
15 FLARES.....	---	---	---	36,116	---	+36,116
16 FUZES.....	---	---	---	1,734	---	+1,734
TOTAL, PROCUREMENT OF AMMO, AIR FORCE.....		---		1,565,265		+1,565,265
WEAPONS						
17 SMALL ARMS.....	---	---	---	37,496	---	+37,496
TOTAL, PROCUREMENT OF AMMUNITION, AIR FORCE.....		---		1,602,761		+1,602,761
	=====			=====		=====

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS  
[In thousands of dollars]

P-1	Budget Request	Committee Recommended	Change from Request
<b>1 ROCKETS</b>	<b>0</b>	<b>115,068</b>	<b>115,068</b>
Transfer from title IX		133,288	
APKWS - Mk 66 rocket motor price adjustment		-18,200	
<b>2 CARTRIDGES</b>	<b>0</b>	<b>140,449</b>	<b>140,449</b>
Transfer from title IX		140,449	
<b>3 PRACTICE BOMBS</b>	<b>0</b>	<b>29,313</b>	<b>29,313</b>
Transfer from title IX		29,313	
<b>4 GENERAL PURPOSE BOMBS</b>	<b>0</b>	<b>85,885</b>	<b>85,885</b>
Transfer from title IX		85,885	
Realign from BLU-117 to multi-purpose load facility in accordance with Air Force plan		-17,000	
Realign to multi-purpose load facility from BLU-117 in accordance with Air Force plan		17,000	
<b>6 JOINT DIRECT ATTACK MUNITION</b>	<b>0</b>	<b>1,019,224</b>	<b>1,019,224</b>
Transfer from title IX		1,066,224	
Talkit unit cost adjustment		-37,000	
LJDAM sensor cost adjustment		-10,000	
<b>7 B61</b>	<b>0</b>	<b>80,773</b>	<b>80,773</b>
Transfer from title IX		80,773	
<b>9 CAD/PAD</b>	<b>0</b>	<b>47,069</b>	<b>47,069</b>
Transfer from title IX		47,069	
<b>10 EXPLOSIVE ORDNANCE DISPOSAL</b>	<b>0</b>	<b>6,133</b>	<b>6,133</b>
Transfer from title IX		6,133	
<b>11 SPARES AND REPAIR PARTS</b>	<b>0</b>	<b>533</b>	<b>533</b>
Transfer from title IX		533	
<b>12 MODIFICATIONS</b>	<b>0</b>	<b>1,291</b>	<b>1,291</b>
Transfer from title IX		1,291	
<b>13 ITEMS LESS THAN \$5M</b>	<b>0</b>	<b>1,677</b>	<b>1,677</b>
Transfer from title IX		1,677	
<b>15 FLARES</b>	<b>0</b>	<b>36,116</b>	<b>36,116</b>
Transfer from title IX		36,116	
<b>16 FUZES</b>	<b>0</b>	<b>1,734</b>	<b>1,734</b>
Transfer from title IX		1,734	
<b>17 SMALL ARMS</b>	<b>0</b>	<b>37,496</b>	<b>37,496</b>
Transfer from title IX		37,496	

## OTHER PROCUREMENT, AIR FORCE

Fiscal year 2019 appropriation .....	\$20,884,225,000
Fiscal year 2020 budget request .....	20,687,857,000
Committee recommendation .....	21,042,888,000
Change from budget request .....	+355,031,000

The Committee recommends an appropriation of \$21,042,888,000 for Other Procurement, Air Force which will provide the following program in fiscal year 2020:

(DOLLARS IN THOUSANDS)

		BUDGET REQUEST		COMMITTEE RECOMMENDED		CHANGE FROM REQUEST	
		QTY	AMOUNT	QTY	AMOUNT	QTY	AMOUNT
OTHER PROCUREMENT, AIR FORCE							
VEHICULAR EQUIPMENT							
PASSENGER CARRYING VEHICLES							
1	PASSENGER CARRYING VEHICLE.....	---	15,238	---	15,238	---	---
CARGO + UTILITY VEHICLES							
2	FAMILY MEDIUM TACTICAL VEHICLE.....	---	34,616	---	34,616	---	---
3	CAP VEHICLES.....	---	1,040	---	3,567	---	+2,527
4	ITEMS LESS THAN \$5M (CARGO AND UTILITY VEHICLES).....	---	23,133	---	23,133	---	---
SPECIAL PURPOSE VEHICLES							
5	JOINT LIGHT TACTICAL VEHICLE.....	---	32,027	---	32,027	---	---
6	SECURITY AND TACTICAL VEHICLES.....	---	1,315	---	1,315	---	---
7	ITEMS LESS THAN \$5M (SPECIAL PURPOSE VEHICLES).....	---	14,593	---	14,593	---	---
FIRE FIGHTING EQUIPMENT							
8	FIRE FIGHTING/CRASH RESCUE VEHICLES.....	---	28,604	---	28,604	---	---
MATERIALS HANDLING EQUIPMENT							
9	ITEMS LESS THAN \$5M (MATERIALS HANDLING EQUIPMENT).....	---	21,848	---	21,848	---	---
BASE MAINTENANCE SUPPORT							
10	RUNWAY SNOW REMOVAL & CLEANING EQUIP.....	---	2,925	---	2,925	---	---
11	ITEMS LESS THAN \$5M (BASE MAINTENANCE SUPPORT VEHICLES).....	---	55,776	---	55,776	---	---
TOTAL, VEHICULAR EQUIPMENT.....			231,115	233,642			+2,527
ELECTRONICS AND TELECOMMUNICATIONS EQUIP							
COMM SECURITY EQUIPMENT(COMSEC)							
13	COMSEC EQUIPMENT.....	---	91,461	---	91,461	---	---
INTELLIGENCE PROGRAMS							
14	INTERNATIONAL INTEL TECH AND ARCHITECTURES.....	---	11,386	---	11,386	---	---
15	INTELLIGENCE TRAINING EQUIPMENT.....	---	7,619	---	7,619	---	---
16	INTELLIGENCE COMM EQUIP.....	---	35,558	---	32,048	---	-3,510
ELECTRONICS PROGRAMS							
17	TRAFFIC CONTROL/LANDING.....	---	17,939	---	17,939	---	---
19	BATTLE CONTROL SYSTEM - FIXED.....	---	3,063	---	3,063	---	---
21	WEATHER OBSERVATION FORECAST.....	---	31,447	---	31,447	---	---
22	STRATEGIC COMMAND AND CONTROL.....	---	5,090	---	5,090	---	---
23	CHEYENNE MOUNTAIN COMPLEX.....	---	10,145	---	10,145	---	---
24	MISSION PLANNING SYSTEMS.....	---	14,508	---	14,508	---	---
26	INTEGRATED STRAT PLAN AND ANALY NETWORK (ISPAN).....	---	9,901	---	9,901	---	---

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST		COMMITTEE RECOMMENDED	CHANGE FROM REQUEST	
	QTY	AMOUNT	QTY	AMOUNT	QTY
SPECIAL COMM-ELECTRONICS PROJECTS					
27 GENERAL INFORMATION TECHNOLOGY.....	---	26,933	---	26,933	---
28 AF GLOBAL COMMAND & CONTROL SYSTEM.....	---	2,756	---	2,756	---
29 BATTLEFIELD AIRBORNE CONTROL NODE (BACN).....	---	48,478	---	48,478	---
30 MOBILITY COMMAND AND CONTROL.....	---	21,186	---	21,186	---
31 AIR FORCE PHYSICAL SECURITY SYSTEM.....	---	178,361	---	178,361	---
32 COMBAT TRAINING RANGES.....	---	233,993	---	233,993	---
33 MINIMUM ESSENTIAL EMERGENCY COMM N.....	---	132,648	---	132,648	---
34 WIDE AREA SURVEILLANCE (WAS).....	---	80,818	---	7,575	-73,243
35 C3 COUNTERMEASURES.....	---	25,036	---	25,036	---
36 INTEGRATED PERSONNEL AND PAY SYSTEM.....	---	20,900	---	20,900	---
37 GCSS-AF FOS.....	---	11,226	---	11,226	---
38 DEFENSE ENTERPRISE ACCOUNTING AND MGMT.....	---	1,905	---	1,905	---
39 MAINTENANCE REPAIR AND OVERHAUL INITIATIVE.....	---	1,912	---	1,912	---
40 THEATER BATTLE MGT C2 SYS.....	---	6,337	---	6,337	---
41 AIR AND SPACE OPERATIONS CTR-WPN SYSTEM.....	---	33,243	---	33,243	---
AIR FORCE COMMUNICATIONS					
43 INFORMATION TRANSPORT SYSTEMS.....	---	69,530	---	69,530	---
44 AFNET.....	---	147,063	---	147,063	---
45 JOINT COMMUNICATIONS SUPPORT ELEMENT (JCSE).....	---	6,505	---	6,505	---
46 USCENTCOM.....	---	20,190	---	20,190	---
47 USSTRATCOM.....	---	11,244	---	11,244	---
ORGANIZATION AND BASE					
48 TACTICAL C-E EQUIPMENT.....	---	143,757	---	143,757	---
50 RADIO EQUIPMENT.....	---	15,402	---	15,402	---
51 CCTV/AUDIOVISUAL EQUIPMENT.....	---	3,211	---	2,211	-1,000
52 BASE COMM INFRASTRUCTURE.....	---	43,123	---	43,123	---
MODIFICATIONS					
53 COMM ELECT MODS.....	---	14,500	---	14,500	---
TOTAL, ELECTRONICS AND TELECOMMUNICATIONS EQUIP.....		1,538,374		1,460,621	-77,753
OTHER BASE MAINTENANCE AND SUPPORT EQUIP					
PERSONAL SAFETY AND RESCUE EQUIP					
54 ITEMS LESS THAN \$5,000,000 (SAFETY).....	---	50,634	---	46,934	-3,700
DEPOT PLANT + MATERIALS HANDLING EQ					
55 POWER CONDITIONING EQUIPMENT.....	---	11,000	---	11,000	---
56 MECHANIZED MATERIAL HANDLING.....	---	11,901	---	11,901	---

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST QTY	AMOUNT	COMMITTEE RECOMMENDED QTY	AMOUNT	CHANGE FROM REQUEST QTY	AMOUNT
BASE SUPPORT EQUIPMENT						
57 BASE PROCURED EQUIPMENT.....	---	23,963	---	23,963	---	---
58 ENGINEERING AND EOD EQUIPMENT.....	---	34,124	---	34,124	---	---
59 MOBILITY EQUIPMENT.....	---	26,439	---	26,439	---	---
60 FUELS SUPPORT EQUIPMENT (FSE).....	---	24,255	---	24,255	---	---
61 ITEMS LESS THAN \$5M (BASE SUPPORT).....	---	38,986	---	38,986	---	---
SPECIAL SUPPORT PROJECTS						
63 DARP RC135.....	---	26,716	---	26,716	---	---
64 DISTRIBUTED GROUND SYSTEMS.....	---	116,055	---	116,055	---	---
66 SPECIAL UPDATE PROGRAM.....	---	835,148	---	835,148	---	---
TOTAL, OTHER BASE MAINTENANCE AND SUPPORT EQUIP.....		1,199,221		1,195,521		-3,700
SPARE AND REPAIR PARTS						
67 SPARES AND REPAIR PARTS.....	---	81,340	---	81,340	---	---
CLASSIFIED PROGRAMS.....	---	17,637,807	---	18,071,764	---	+433,957
TOTAL, OTHER PROCUREMENT, AIR FORCE.....		20,687,857		21,042,888		+355,031

**EXPLANATION OF PROJECT LEVEL ADJUSTMENTS**  
**[In thousands of dollars]**

<b>P-1</b>	<b>Budget Request</b>	<b>Committee Recommended</b>	<b>Change from Request</b>
<b>3 CAP VEHICLES</b>	<b>1,040</b>	<b>3,567</b>	<b>2,527</b>
Program increase - vehicles		660	
Program increase - communication equipment		1,867	
<b>16 INTELLIGENCE COMM EQUIPMENT</b>	<b>35,558</b>	<b>32,048</b>	<b>-3,510</b>
IMAD procurement unjustified		-3,510	
<b>34 WIDE AREA SURVEILLANCE</b>	<b>80,818</b>	<b>7,575</b>	<b>-73,243</b>
Excess to need - milestone C delay		-73,243	
<b>51 CCTV / AUDIOVISUAL EQUIPMENT</b>	<b>3,211</b>	<b>2,211</b>	<b>-1,000</b>
Underexecution		-1,000	
<b>54 PERSONAL SAFETY &amp; RESCUE EQUIPMENT</b>	<b>50,634</b>	<b>46,934</b>	<b>-3,700</b>
Integrated aircrew ensemble unit cost increase		-2,200	
Next generation fixed wing helmet ahead of need		-1,500	
<b>999 CLASSIFIED PROGRAMS</b>	<b>17,637,807</b>	<b>18,071,764</b>	<b>433,957</b>
Classified adjustment		433,957	

## PROCUREMENT, DEFENSE-WIDE

Fiscal year 2019 appropriation .....	\$6,822,180,000
Fiscal year 2020 budget request .....	5,109,416,000
Committee recommendation .....	5,100,866,000
Change from budget request .....	– 8,550,000

The Committee recommends an appropriation of \$5,100,866,000 for Procurement, Defense-Wide which will provide the following program in fiscal year 2020:



(DOLLARS IN THOUSANDS)

		BUDGET REQUEST QTY	AMOUNT	COMMITTEE RECOMMENDED QTY	AMOUNT	CHANGE FROM REQUEST QTY	AMOUNT
PROCUREMENT, DEFENSE-WIDE							
	MAJOR EQUIPMENT						
	MAJOR EQUIPMENT, DCMA						
2	MAJOR EQUIPMENT.....	---	2,432	---	2,432	---	---
	MAJOR EQUIPMENT, DHRA						
3	PERSONNEL ADMINISTRATION.....	---	5,030	---	5,030	---	---
	MAJOR EQUIPMENT, DISA						
8	INFORMATION SYSTEMS SECURITY.....	---	3,318	---	4,718	---	+1,400
9	TELEPORT PROGRAM.....	---	25,103	---	25,103	---	---
10	ITEMS LESS THAN \$5M.....	---	26,416	---	26,416	---	---
12	DEFENSE INFORMATION SYSTEMS NETWORK.....	---	17,574	---	17,574	---	---
14	WHITE HOUSE COMMUNICATION AGENCY.....	---	45,079	---	45,079	---	---
15	SENIOR LEADERSHIP ENTERPRISE.....	---	78,669	---	78,669	---	---
16	JOINT REGIONAL SECURITY STACKS (JRSS).....	---	88,000	---	88,000	---	---
17	JOINT SERVICE PROVIDER.....	---	107,907	---	107,907	---	---
	MAJOR EQUIPMENT, DLA						
19	MAJOR EQUIPMENT.....	---	8,122	---	5,992	---	-2,130
	MAJOR EQUIPMENT, DMACT						
20	A - WEAPON SYSTEM COST.....	---	10,961	---	10,961	---	---
	MAJOR EQUIPMENT, DODEA						
21	AUTOMATION/EDUCATIONAL SUPPORT & LOGISTICS.....	---	1,320	---	1,320	---	---
	MAJOR EQUIPMENT, DPAA						
22	MAJOR EQUIPMENT, DPAA.....	32	1,504	32	1,504	---	---
	MAJOR EQUIPMENT, DSS						
23	MAJOR EQUIPMENT.....	---	496	---	5,703	---	+5,207
	MAJOR EQUIPMENT, DEFENSE THREAT REDUCTION AGENCY						
25	VEHICLES.....	---	211	---	211	---	---
26	OTHER MAJOR EQUIPMENT.....	---	11,521	---	9,521	---	-2,000

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST		COMMITTEE RECOMMENDED		CHANGE FROM REQUEST	
	QTY	AMOUNT	QTY	AMOUNT	QTY	AMOUNT
MAJOR EQUIPMENT, MDA						
28 THAAD SYSTEM.....	37	425,863	37	425,863	---	---
29 GROUND BASED MIDCOURSE.....	---	9,471	---	9,471	---	---
31 AEGIS BMD.....	37	600,773	37	697,768	---	+96,995
32 AEGIS BMD (AP).....	---	96,995	---	---	---	-96,995
33 BMDS AN/TPY-2 RADARS.....	---	10,046	---	10,046	---	---
34 ISRAELI PROGRAMS.....	1	55,000	1	55,000	---	---
35 SHORT RANGE BALLISTIC MISSILE DEFENSE (SRBMD).....	1	50,000	1	50,000	---	---
36 AEGIS ASHORE PHASE III.....	1	25,659	1	25,659	---	---
37 IRON DOME SYSTEM.....	1	95,000	1	95,000	---	---
38 AEGIS BMD HARDWARE AND SOFTWARE.....	36	124,986	36	124,986	---	---
MAJOR EQUIPMENT, NSA						
44 INFORMATION SYSTEMS SECURITY PROGRAM (ISSP).....	---	1,533	---	133	---	-1,400
MAJOR EQUIPMENT, OSD						
45 MAJOR EQUIPMENT, OSD.....	---	43,705	---	43,705	---	---
MAJOR EQUIPMENT, TJS						
46 MAJOR EQUIPMENT, TJS.....	---	6,905	---	6,905	---	---
47 MAJOR EQUIPMENT - TJS CYBER.....	---	1,458	---	1,458	---	---
MAJOR EQUIPMENT, WHS						
49 MAJOR EQUIPMENT, WHS.....	---	507	---	507	---	---
TOTAL, MAJOR EQUIPMENT.....		1,981,564		1,982,641		+1,077
SPECIAL OPERATIONS COMMAND						
AVIATION PROGRAMS						
53 SOF ROTARY WING UPGRADES AND SUSTAINMENT.....	---	172,020	---	172,020	---	---
54 UNMANNED ISR.....	---	15,208	---	11,748	---	-3,460
55 NON-STANDARD AVIATION.....	---	32,310	---	32,310	---	---
56 SOF U-28.....	---	10,898	---	10,898	---	---
57 MH-47 CHINOOK.....	---	173,812	---	170,546	---	-3,266
58 CV-22 SOF MODIFICATION.....	---	17,256	---	17,256	---	---
59 MQ-9 UNMANNED AERIAL VEHICLE.....	---	5,338	---	5,338	---	---
60 PRECISION STRIKE PACKAGE.....	---	232,930	---	232,930	---	---
61 AC/MC-130J.....	---	173,419	---	152,419	---	-21,000
62 C-130 MODIFICATIONS.....	---	15,582	---	15,582	---	---

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST QTY	AMOUNT	COMMITTEE RECOMMENDED QTY	AMOUNT	CHANGE FROM REQUEST QTY	AMOUNT
SHIPBUILDING						
63 UNDERWATER SYSTEMS.....	---	58,991	---	58,991	---	---
AMMUNITION PROGRAMS						
64 SOF ORDNANCE ITEMS UNDER \$5,000,000.....	---	279,992	---	279,992	---	---
OTHER PROCUREMENT PROGRAMS						
65 SOF INTELLIGENCE SYSTEMS.....	---	100,641	---	100,641	---	---
66 DCGS-SOF.....	---	12,522	---	12,522	---	---
67 OTHER ITEMS UNDER \$5,000,000.....	---	103,910	---	103,910	---	---
68 SOF COMBATANT CRAFT SYSTEMS.....	---	33,088	---	41,257	---	+8,169
69 SPECIAL PROGRAMS.....	---	63,467	---	63,467	---	---
70 TACTICAL VEHICLES.....	---	77,832	---	77,832	---	---
71 WARRIOR SYSTEMS UNDER \$5,000,000.....	---	298,480	---	298,480	---	---
72 COMBAT MISSION REQUIREMENTS.....	---	19,702	---	19,702	---	---
73 SOF GLOBAL VIDEO SURVEILLANCE ACTIVITIES.....	---	4,787	---	4,787	---	---
74 SOF OPERATIONAL ENHANCEMENTS INTELLIGENCE.....	---	8,175	---	8,175	---	---
75 SOF OPERATIONAL ENHANCEMENTS.....	---	282,532	---	282,532	---	---
TOTAL, SPECIAL OPERATIONS COMMAND.....		2,192,892		2,173,335		-19,557
CHEMICAL/BIOLOGICAL DEFENSE						
76 CHEMICAL BIOLOGICAL SITUATIONAL AWARENESS.....	---	162,406	---	162,406	---	---
77 CB PROTECTION AND HAZARD MITIGATION.....	---	188,188	---	188,618	---	+430
TOTAL, CHEMICAL/BIOLOGICAL DEFENSE.....		350,594		351,024		+430
CLASSIFIED PROGRAMS.....	---	584,366	---	593,866	---	+9,500
TOTAL, PROCUREMENT, DEFENSE-WIDE.....		5,109,416		5,100,866		-8,550

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS  
[In thousands of dollars]

P-1	Budget Request	Committee Recommended	Change from Request
<b>8 INFORMATION SYSTEMS SECURITY</b>	<b>3,318</b>	<b>4,718</b>	<b>1,400</b>
Sharkseer - transfer from line 44		1,400	
<b>19 MAJOR EQUIPMENT</b>	<b>8,122</b>	<b>5,992</b>	<b>-2,130</b>
Logistics support excess growth		-2,130	
<b>23 MAJOR EQUIPMENT</b>	<b>496</b>	<b>5,703</b>	<b>5,207</b>
Program increase - cyber threat detection capabilities		5,207	
<b>26 OTHER MAJOR EQUIPMENT</b>	<b>11,521</b>	<b>9,521</b>	<b>-2,000</b>
Excess growth		-2,000	
<b>31 AEGIS BMD</b>	<b>600,773</b>	<b>697,768</b>	<b>96,995</b>
SM-3 IIA additional interceptors - transfer from line 32		96,995	
<b>32 AEGIS BMD (AP-CY)</b>	<b>96,995</b>	<b>0</b>	<b>-96,995</b>
SM-3 IIA additional interceptors - transfer to line 31		-96,995	
<b>44 INFORMATION SYSTEMS SECURITY PROGRAM (ISSP)</b>	<b>1,533</b>	<b>133</b>	<b>-1,400</b>
Sharkseer - transfer to line 8		-1,400	
<b>54 UNMANNED ISR</b>	<b>15,208</b>	<b>11,748</b>	<b>-3,460</b>
SOF unique mission kits excessive growth		-3,460	
<b>57 MH-47 CHINOOK</b>	<b>173,812</b>	<b>170,546</b>	<b>-3,266</b>
Publication/tech data excess growth		-3,266	
<b>61 AC/MC-130J</b>	<b>173,419</b>	<b>152,419</b>	<b>-21,000</b>
TF/TA radar excessive growth		-1,000	
RF countermeasures excess to need		-20,000	
<b>68 SOF COMBATANT CRAFT SYSTEMS</b>	<b>33,088</b>	<b>41,257</b>	<b>8,169</b>
Program increase - combatant craft assault		8,169	
<b>77 CB PROTECTION AND HAZARD MITIGATION</b>	<b>188,188</b>	<b>188,618</b>	<b>430</b>
Unjustified growth		-4,570	
Program increase - detection and protective equipment		5,000	
<b>999 CLASSIFIED PROGRAMS</b>	<b>584,366</b>	<b>593,866</b>	<b>9,500</b>
Classified adjustment		4,500	
Transfer from title IX		5,000	

## RECYCLED CONTENT PRODUCTS

The Committee commends the Department of Defense on its most recent update to Department of Defense Instruction 4105.72 regarding sustainable procurement. The Committee supports efforts to procure sustainable goods and recycled content products, including clothing items with these materials. The Committee encourages the Secretary of Defense to consider the use and applicability of recycled items in procurement decisions.

## DEFENSE PRODUCTION ACT PURCHASES

Fiscal year 2019 appropriation .....	\$53,578,000
Fiscal year 2020 budget request .....	34,393,000
Committee recommendation .....	64,393,000
Change from budget request .....	+30,000,000

The Committee recommends an appropriation of \$64,393,000 for the Defense Production Act Purchases which will provide the following program in fiscal year 2020:

## EXPLANATION OF PROJECT LEVEL ADJUSTMENTS

[In thousands of dollars]

	Budget Request	Committee Recommended	Change from Request
DEFENSE PRODUCTION ACT PURCHASES .....	34,393	64,393	30,000
Program increase .....		30,000	
TOTAL, DEFENSE PRODUCTION ACT PURCHASES .....	34,393	64,393	30,000

## RARE EARTH MATERIALS

A critical national security vulnerability exists because of continued dependence on Chinese rare earth materials for the military sector supply chain. Due to China's willingness to restrict the rare earth material market, coupled with the risk to the national security supply chain, it is critical to reduce reliance on China's rare earth materials. The Committee encourages the Secretary of Defense to invest in the development of a domestic source of rare earth materials.

## RADIATION HARDENED MICROELECTRONICS

The Committee notes the important initiatives pertaining to radiation hardened microelectronics and encourages the Secretary of Defense to prioritize these initiatives, particularly those concerning radiation hardened memory devices. The Committee directs the Secretary of Defense to submit a report to the congressional defense committees not later than 90 days after the enactment of this Act on the status of the various microelectronic initiatives, as well as the subsequent funding profiles for each initiative.

## JOINT URGENT OPERATIONAL NEEDS FUND

Fiscal year 2019 appropriation .....	---
Fiscal year 2020 budget request .....	\$99,200,000
Committee recommendation .....	---
Change from budget request .....	- 99,200,000

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

## TITLE IV

### RESEARCH, DEVELOPMENT, TEST AND EVALUATION

The fiscal year 2020 Department of Defense research, development, test and evaluation budget request totals \$102,647,545,000. The Committee recommendation provides \$100,691,612,000 for the research, development, test and evaluation accounts. The table below summarizes the Committee recommendations:

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
-----			
RECAPITULATION			
RESEARCH, DEVELOPMENT, TEST AND EVALUATION, ARMY.....	12,192,771	12,046,783	-145,988
RESEARCH, DEVELOPMENT, TEST AND EVALUATION, NAVY.....	20,270,499	19,125,865	-1,144,634
RESEARCH, DEVELOPMENT, TEST AND EVALUATION, AIR FORCE.	45,616,122	44,795,456	-820,666
RESEARCH, DEVELOPMENT, TEST AND EVALUATION, DEFENSE-WIDE.....	24,346,953	24,502,308	+155,355
OPERATIONAL TEST AND EVALUATION, DEFENSE.....	221,200	221,200	---
-----			
GRAND TOTAL, RDT&E.....	102,647,545	100,691,612	-1,955,933
	=====	=====	=====



## REPROGRAMMING GUIDANCE FOR ACQUISITION ACCOUNTS

The Committee directs the Under Secretary of Defense (Comptroller) to submit a prior approval reprogramming to the congressional defense committees for any reprogramming of funding above a threshold of \$10,000,000 for either a procurement or a research, development, test and evaluation line.

The Committee directs the Under Secretary of Defense (Comptroller) 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 the guidance specified in the explanatory statement accompanying the Department of Defense Appropriations Act, 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 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 Committee directs that the funding increases outlined in these tables 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 provided 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 specifically addressed in the Committee report. These items remain special interest items whether or not they are repeated in a subsequent explanatory statement.

## CONGRESSIONAL NOTIFICATIONS

The Committee supports the use of Other Transactional Authority (OTA) by the Department of Defense as an important tool to provide flexibility for new or expanded use of rapid development and prototyping. While not governed by the Federal Acquisition Regulations, OTAs result in major contract decisions which require congressional oversight. The Committee directs the Under Secretary of Defense for Acquisition and Sustainment to notify the congressional defense committees regarding major contract actions, including those using OTA authorities.

## ADVANCED MANUFACTURING CENTER OF EXCELLENCE

The Committee is encouraged that the Secretary of the Army established a Center of Excellence for Advanced Manufacturing. The National Defense Authorization Act for Fiscal Year 2019 required the Under Secretary of Defense for Acquisition and Sustainment and the Under Secretary of Defense for Research and Engineering to work with each of the Service Secretaries to establish activities that demonstrate advanced manufacturing techniques and capabilities at depot-level activities or military arsenal facilities. The Committee is supportive of this effort and directs the Secretary of Defense to submit a report to the congressional defense committees not later than 90 days after the enactment of this Act providing further detail on the activities that have been identified by each Service.

## SATELLITE COMMUNICATIONS

The current military satellite communications architecture comprises independently designed, purpose-built spacecraft; ground systems; and user terminals intended to meet differing mission requirements for strategic, wideband, and narrowband communications. In fiscal year 2019, the Secretaries of the Army, Navy, and Air Force were tasked with developing an integrated architecture and acquisition strategy for wideband and narrowband communications, and were directed to consider both government and commercial systems, user terminals, and network capabilities. The Committee notes that acquisition of narrowband satellite communications systems traditionally has been the responsibility of the Navy, while the Air Force has had responsibility for wideband and strategic satellite communications. The Committee encourages the Secretaries of the Navy and the Air Force to consider whether transferring responsibility for future narrowband satellite communications systems from the Navy to the Air Force will facilitate the development and implementation of an integrated communications architecture.

## HYPERSONICS CAPABILITY DEVELOPMENT

Hypersonic weapons pose a dangerous new class of threat to national security. They operate at exceptionally high speeds and have the ability to maneuver unpredictably, making them challenging to track and difficult to intercept. Potential adversaries, such as Russia and China, have recognized the value of hypersonic weapons to offset United States military capabilities and hold United States forces at risk. Adversaries have made alarming progress in developing and demonstrating such weapons, far outstripping the pace of United States advancements. The Committee supports efforts aimed at developing capabilities to hold adversaries at risk, as well as capabilities to defend against growing hypersonic threats. Therefore, the Committee strongly supports increased emphasis on research, development, testing, and demonstration of hypersonics technologies and systems. However, the Committee is concerned that the rapid growth in hypersonic research has the potential to result in stove-piped, proprietary systems that duplicate capabilities and increase costs.

The Committee recommendation includes \$85,000,000 for Hypersonics Capability Development to develop and implement an integrated science and technology roadmap for hypersonics and to establish a university consortium for hypersonics research and workforce development to support Department efforts to expedite testing, evaluation, and acquisition of hypersonic weapons systems, and to coordinate current and future research, development, test, and evaluation programs across the Department of Defense.

The Committee directs the Under Secretary of Defense for Research and Engineering to submit a report to the congressional defense committees not later than 90 days after the date of enactment of this Act, and quarterly updates thereafter, on its integrated science and technology roadmap describing the short-term, mid-term, and long-term goals of the Department; progress toward achieving the goals; associated investment needed to achieve the goals; and the plans for a university consortium.

#### HUMAN PERFORMANCE OPTIMIZATION RESEARCH

The Committee believes that developmental programs aimed at human performance optimization in the physical, cognitive, organizational, and social domains could improve military readiness. The Committee encourages the Service Secretaries to prioritize human performance optimization research efforts that will benefit service-members.

#### F-35 JOINT STRIKE FIGHTER DEVELOPMENTAL TEST FLEET

The Committee recommendation includes a legislative provision, similar to the provision included in the Department of Defense Appropriations Act, 2019, that would allow the Secretary of Defense to use funds made available for F-35 procurement and research, development, test and evaluation to modify up to six aircraft in total, including two aircraft of each variant, to a test configuration. The Committee directs the Secretary of Defense to follow the same guidelines for the use of this authority contained in House Report 115-952.

#### RESEARCH, DEVELOPMENT, TEST AND EVALUATION, ARMY

Fiscal year 2019 appropriation .....	\$11,083,824,000
Fiscal year 2020 budget request .....	12,192,771,000
Committee recommendation .....	12,046,783,000
Change from budget request .....	-145,988,000

The Committee recommends an appropriation of \$12,046,783,000 for Research, Development, Test and Evaluation, Army which will provide the following program in fiscal year 2020:

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
RESEARCH, DEVELOPMENT, TEST & EVAL, ARMY			
BASIC RESEARCH			
1 IN-HOUSE LABORATORY INDEPENDENT RESEARCH.....	---	---	---
2 DEFENSE RESEARCH SCIENCES.....	297,976	323,480	+25,504
3 UNIVERSITY RESEARCH INITIATIVES.....	65,858	87,858	+22,000
4 UNIVERSITY AND INDUSTRY RESEARCH CENTERS.....	86,164	111,164	+25,000
5 CYBER COLLABORATIVE RESEARCH ALLIANCE.....	4,982	4,982	---
TOTAL, BASIC RESEARCH.....	454,980	527,484	+72,504
APPLIED RESEARCH			
10 LETHALITY TECHNOLOGY.....	26,961	41,961	+15,000
11 ARMY APPLIED RESEARCH.....	25,319	28,319	+3,000
12 SOLDIER LETHALITY TECHNOLOGY.....	115,274	123,900	+8,626
13 GROUND TECHNOLOGY.....	35,199	51,399	+16,200
14 NEXT GENERATION COMBAT VEHICLE TECHNOLOGY.....	219,047	246,047	+27,000
15 NETWORK C3I TECHNOLOGY.....	114,516	132,516	+18,000
16 LONG RANGE PRECISION FIRES TECHNOLOGY.....	74,327	92,327	+18,000
17 FUTURE VERTICLE LIFT TECHNOLOGY.....	93,601	96,601	+3,000
18 AIR AND MISSILE DEFENSE TECHNOLOGY.....	50,771	72,771	+22,000
20 C3I APPLIED CYBER.....	18,947	18,947	---
38 MANPOWER/PERSONNEL/TRAINING TECHNOLOGY.....	20,873	20,873	---
40 MEDICAL TECHNOLOGY.....	99,155	108,155	+9,000
TOTAL, APPLIED RESEARCH.....	893,990	1,033,816	+139,826
ADVANCED TECHNOLOGY DEVELOPMENT			
42 MEDICAL ADVANCED TECHNOLOGY.....	42,030	81,030	+39,000
47 MANPOWER, PERSONNEL AND TRAINING ADVANCED TECHNOLOGY..	11,038	11,038	---
50 ARMY ADVANCED TECHNOLOGY DEVELOPMENT.....	63,338	63,338	---
51 SOLDIER LETHALITY ADVANCED TECHNOLOGY.....	118,468	119,968	+1,500
52 GROUND ADVANCED TECHNOLOGY.....	12,593	38,593	+26,000
59 C3I CYBER ADVANCED DEVELOPMENT.....	13,769	13,769	---
60 HIGH PERFORMANCE COMPUTING MODERNIZATION PROGRAM.....	184,755	194,755	+10,000
61 NEXT GENERATION COMBAT VEHICLE ADVANCED TECHNOLOGY....	160,035	215,035	+55,000
62 NETWORK C3I ADVANCED TECHNOLOGY.....	106,899	107,899	+1,000
63 LONG RANGE PRECISION FIRES ADVANCED TECHNOLOGY.....	174,386	179,386	+5,000
64 FUTURE VERTICAL LIFT ADVANCED TECHNOLOGY.....	151,640	167,640	+16,000

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
65 AIR AND MISSILE DEFENSE ADVANCED TECHNOLOGY.....	60,613	60,613	---
TOTAL, ADVANCED TECHNOLOGY DEVELOPMENT.....	1,099,564	1,253,064	+153,500
DEMONSTRATION & VALIDATION			
73 ARMY MISSILE DEFENSE SYSTEMS INTEGRATION.....	10,987	10,987	---
74 AIR AND MISSILE DEFENSE SYSTEMS ENGINEERING.....	15,148	17,480	+2,332
75 LANDMINE WARFARE AND BARRIER - ADV DEV.....	92,915	92,915	---
77 TANK AND MEDIUM CALIBER AMMUNITION.....	82,146	82,146	---
78 ARMORED SYSTEM MODERNIZATION - ADV DEV.....	157,656	157,656	---
79 SOLDIER SUPPORT AND SURVIVABILITY.....	6,514	6,514	---
80 TACTICAL ELECTRONIC SURVEILLANCE SYSTEM - AD.....	34,890	34,890	---
81 NIGHT VISION SYSTEMS ADVANCED DEVELOPMENT.....	251,011	206,011	-45,000
82 ENVIRONMENTAL QUALITY TECHNOLOGY.....	15,132	15,132	---
83 NATO RESEARCH AND DEVELOPMENT.....	5,406	5,406	---
84 AVIATION - ADV DEV.....	459,290	475,290	+16,000
85 LOGISTICS AND ENGINEER EQUIPMENT - ADV DEV.....	6,254	6,254	---
86 MEDICAL SYSTEMS - ADV DEV.....	31,175	36,975	+5,800
87 SOLDIER SYSTEMS - ADVANCED DEVELOPMENT.....	22,113	26,113	+4,000
88 ROBOTICS DEVELOPMENT.....	115,222	115,222	---
90 ELECTRONIC WARFARE TECHNOLOGY MATURATION (MIP).....	18,043	18,043	---
91 ANALYSIS OF ALTERNATIVES.....	10,023	10,023	---
92 FUTURE TACTICAL UNMANNED AIRCRAFT SYSTEM (FTUAS).....	40,745	42,745	+2,000
93 LOWER TIER AIR MISSILE DEFENSE (LTAMID) SENSOR.....	427,772	402,772	-25,000
94 TECHNOLOGY MATURATION INITIATIVES.....	196,676	161,676	-35,000
95 MANEUVER - SHORT RANGE AIR DEFENSE (M-SHORAD).....	33,100	36,600	+3,500
97 ARMY ADVANCED COMPONENT DEVELOPMENT & PROTOTYPING.....	115,116	103,331	-11,785
SYNTHETIC TRAINING ENVIRONMENT REFINEMENT AND PROTOTYPING.....	136,761	111,761	-25,000
100 HYPERSONICS.....	228,000	239,000	+11,000
102 FUTURE INTERCEPTOR.....	8,000	---	-8,000
106 CYBERSPACE OPERATIONS FORCES AND FORCE SUPPORT.....	52,102	52,102	---
103 UNIFIED NETWORK TRANSPORT.....	39,600	29,700	-9,900
104 MOBILE MEDIUM RANGE MISSILE.....	20,000	---	-20,000
107 ASSURED POSITIONING, NAVIGATION AND TIMING (PNT).....	192,562	150,110	-42,452

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
108 ARMY SPACE SYSTEMS INTEGRATION.....	104,996	104,996	---
TOTAL, DEMONSTRATION & VALIDATION.....	2,929,355	2,751,850	-177,505
ENGINEERING & MANUFACTURING DEVELOPMENT			
109 AIRCRAFT AVIONICS.....	29,164	29,164	---
110 ELECTRONIC WARFARE DEVELOPMENT.....	70,539	70,539	---
113 INFANTRY SUPPORT WEAPONS.....	106,121	107,621	+1,500
114 MEDIUM TACTICAL VEHICLES.....	2,152	2,152	---
115 JAVELIN.....	17,897	16,055	-1,842
116 FAMILY OF HEAVY TACTICAL VEHICLES.....	16,745	16,745	---
117 AIR TRAFFIC CONTROL.....	6,989	6,989	---
118 LIGHT TACTICAL WHEELED VEHICLES.....	10,465	2,965	-7,500
119 ARMORED SYSTEMS MODERNIZATION (ASM) - ENG DEV.....	310,152	293,964	-16,188
120 NIGHT VISION SYSTEMS - SDD.....	181,732	166,732	-15,000
121 COMBAT FEEDING, CLOTHING, AND EQUIPMENT.....	2,393	7,393	+5,000
122 NON-SYSTEM TRAINING DEVICES - SDD.....	27,412	27,412	---
123 AIR DEFENSE COMMAND, CONTROL AND INTELLIGENCE -SDD....	43,502	53,502	+10,000
124 CONSTRUCTIVE SIMULATION SYSTEMS DEVELOPMENT.....	11,636	11,636	---
125 AUTOMATIC TEST EQUIPMENT DEVELOPMENT.....	10,915	10,915	---
126 DISTRIBUTIVE INTERACTIVE SIMULATIONS (DIS) - SDD.....	7,801	7,801	---
127 BRILLIANT ANTI-ARMOR SUBMUNITION (BAT).....	25,000	20,000	-5,000
128 COMBINED ARMS TACTICAL TRAINER (CATT) CORE.....	9,241	9,241	---
129 BRIGADE ANALYSIS, INTEGRATION AND EVALUATION.....	42,634	38,303	-4,331
130 WEAPONS AND MUNITIONS - SDD.....	181,023	186,323	+5,300
131 LOGISTICS AND ENGINEER EQUIPMENT - SDD.....	103,226	115,226	+12,000
132 COMMAND, CONTROL, COMMUNICATIONS SYSTEMS - SDD.....	12,595	12,595	---
133 MEDICAL MATERIEL/MEDICAL BIOLOGICAL DEFENSE EQUIPMENT.	48,264	48,264	---
134 LANDMINE WARFARE/BARRIER - SDD.....	39,208	37,108	-2,100
135 ARMY TACTICAL COMMAND & CONTROL HARDWARE & SOFTWARE...	140,637	138,137	-2,500
136 RADAR DEVELOPMENT.....	105,243	105,243	---
137 GENERAL FUND ENTERPRISE BUSINESS SYSTEM (GFEBS).....	46,683	46,683	---
138 FIREFINDER.....	17,294	17,294	---
139 SOLDIER SYSTEMS - WARRIOR DEM/VAL.....	5,803	4,803	-1,000
140 SUITE OF SURVIVABILITY ENHANCEMENT SYSTEMS -EMD.....	98,698	88,698	-10,000

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
141 ARTILLERY SYSTEMS.....	15,832	10,732	-5,100
142 INFORMATION TECHNOLOGY DEVELOPMENT.....	126,537	116,537	-10,000
143 INTEGRATED PERSONNEL AND PAY SYSTEM-ARMY (IPPS-A).....	142,773	142,773	---
144 ARMORED MULTI-PURPOSE VEHICLE.....	96,730	96,730	---
145 INTEGRATED GROUND SECURITY SURVEILLANCE RESPONSE CAPABILITY (IGSSR-C).....	6,699	6,699	---
146 JOINT TACTICAL NETWORK CENTER (JTNC).....	15,882	15,882	---
147 JOINT TACTICAL NETWORK (JTN).....	40,808	40,808	---
149 GROUND-BASED OPERATIONAL SURVEILLANCE SYSTEM - EXPEDITIONARY (GBOSS-E).....	3,847	3,847	---
150 TACTICAL SECURITY SYSTEM (TSS).....	6,928	6,928	---
151 COMMON INFRARED COUNTERMEASURES (CIRCM).....	34,488	34,488	---
152 COMBATING WEAPONS OF MASS DESTRUCTION (CWMD).....	10,000	10,000	---
154 NUCLEAR BIOLOGICAL CHEMICAL RECONNAISSANCE VEHICLE....	6,054	6,054	---
155 DEFENSIVE CYBER TOOL DEVELOPMENT.....	62,262	62,262	---
156 TACTICAL NETWORK RADIO SYSTEMS (LOW-TIER).....	35,654	28,404	-7,250
157 CONTRACT WRITING SYSTEM.....	19,682	19,682	---
158 MISSILE WARNING SYSTEM MODERNIZATION (MWSM).....	1,539	1,539	---
159 AIRCRAFT SURVIVABILITY DEVELOPMENT.....	64,557	64,557	---
160 INDIRECT FIRE PROTECTION CAPABILITY INC 2 - BLOCK 1...	243,228	74,265	-168,963
161 GROUND ROBOTICS.....	41,308	41,308	---
162 EMERGING TECHNOLOGY INITIATIVES.....	45,896	41,616	-4,280
163 ARMY SYSTEM DEVELOPMENT & DEMONSTRATION.....	164,883	164,883	---
165 JOINT AIR-TO-GROUND MISSILE (JAGM).....	9,500	9,500	---
166 ARMY INTEGRATED AIR AND MISSILE DEFENSE (AIAMD).....	208,938	203,938	-5,000
167 MANNED GROUND VEHICLE.....	378,400	378,400	---
168 NATIONAL CAPABILITIES INTEGRATION.....	7,835	7,835	---
169 JOINT LIGHT TACTICAL VEHICLE ENG AND MANUFACTURING....	2,732	7,232	+4,500
170 AVIATION GROUND SUPPORT EQUIPMENT.....	1,664	1,664	---
172 TROJAN - RH12.....	3,936	3,936	---
174 ELECTRONIC WARFARE DEVELOPMENT.....	19,675	19,675	---
TOTAL, ENGINEERING & MANUFACTURING DEVELOPMENT.....	3,549,431	3,321,677	-227,754

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
RT&E MANAGEMENT SUPPORT			
176 THREAT SIMULATOR DEVELOPMENT.....	14,117	14,117	---
177 TARGET SYSTEMS DEVELOPMENT.....	8,327	8,327	---
178 MAJOR T&E INVESTMENT.....	136,565	136,565	---
179 RAND ARROYO CENTER.....	13,113	13,113	---
180 ARMY KWAJALEIN ATOLL.....	238,691	238,691	---
181 CONCEPTS EXPERIMENTATION PROGRAM.....	42,922	42,922	---
183 ARMY TEST RANGES AND FACILITIES.....	334,468	334,468	---
184 ARMY TECHNICAL TEST INSTRUMENTATION AND TARGETS.....	46,974	51,974	+5,000
185 SURVIVABILITY/LETHALITY ANALYSIS.....	35,075	35,075	---
186 AIRCRAFT CERTIFICATION.....	3,461	3,461	---
187 METEOROLOGICAL SUPPORT TO RDT&E ACTIVITIES.....	6,233	6,233	---
188 MATERIEL SYSTEMS ANALYSIS.....	21,342	21,342	---
189 EXPLOITATION OF FOREIGN ITEMS.....	11,168	11,168	---
190 SUPPORT OF OPERATIONAL TESTING.....	52,723	52,723	---
191 ARMY EVALUATION CENTER.....	60,815	60,815	---
ARMY MODELING AND SIMULATION X-CMD COLLABORATION AND			
192 INTEG.....	2,527	2,527	---
193 PROGRAMWIDE ACTIVITIES.....	58,175	58,175	---
194 TECHNICAL INFORMATION ACTIVITIES.....	25,060	30,060	+5,000
195 MUNITIONS STANDARDIZATION, EFFECTIVENESS AND SAFETY...	44,458	44,458	---
196 ENVIRONMENTAL QUALITY TECHNOLOGY MGMT SUPPORT.....	4,681	4,681	---
197 MANAGEMENT HEADQUARTERS (RESEARCH AND DEVELOPMENT)....	53,820	53,820	---
198 MILITARY GROUND-BASED CREW TECHNOLOGY.....	4,291	4,291	---
199 RONALD REAGAN BALLISTIC MISSILE DEFENSE TEST SITE.....	62,069	62,069	---
200 COUNTERINTEL AND HUMAN INTEL MODERNIZATION.....	1,050	1,050	---
201 ASSESSMENTS AND EVALUATIONS CYBER VULNERABILITIES.....	4,500	4,500	---
TOTAL, RDT&E MANAGEMENT SUPPORT.....	1,286,625	1,296,625	+10,000



(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
OPERATIONAL SYSTEMS DEVELOPMENT			
204 MLRS PRODUCT IMPROVEMENT PROGRAM.....	22,877	17,615	-5,262
206 ANTI-TAMPER TECHNOLOGY SUPPORT.....	8,491	8,491	---
207 WEAPONS AND MUNITIONS PRODUCT IMPROVEMENT PROGRAMS....	15,645	15,645	---
209 LONG RANGE PRECISION FIRES (LRPF).....	164,182	156,682	-7,500
211 BLACKHAWK RECAP/MODERNIZATION.....	13,039	13,039	---
212 CHINOOK HELICOPTER PRODUCT IMPROVEMENT PROGRAM.....	174,371	174,371	---
213 FIXED WING AIRCRAFT.....	4,545	4,545	---
214 IMPROVED TURBINE ENGINE PROGRAM.....	206,434	206,434	---
AVIATION ROCKET SYSTEM PRODUCT IMPROVEMENT AND			
216 DEVELOPMENT.....	24,221	5,018	-19,203
217 UNMANNED AIRCRAFT SYSTEM UNIVERSAL PRODUCTS.....	32,016	32,016	---
218 APACHE FUTURE DEVELOPMENT.....	5,448	---	-5,448
219 ARMY OPERATIONAL SYSTEMS DEVELOPMENT.....	49,526	49,526	---
220 FAMILY OF BIOMETRICS.....	1,702	1,702	---
221 PATRIOT PRODUCT IMPROVEMENT.....	96,430	96,430	---
222 JOINT AUTOMATED DEEP OPERATION COORDINATION SYSTEM....	47,398	47,398	---
223 COMBAT VEHICLE IMPROVEMENT PROGRAMS.....	334,463	290,545	-43,918
225 155MM SELF-PROPELLED HOWITZER IMPROVEMENTS.....	214,246	180,918	-33,328
226 AIRCRAFT MODIFICATIONS/PRODUCT IMPROVEMENT PROGRAMS...	16,486	11,986	-4,500
227 AIRCRAFT ENGINE COMPONENT IMPROVEMENT PROGRAM.....	144	144	---
228 DIGITIZATION.....	5,270	5,270	---
229 MISSILE/AIR DEFENSE PRODUCT IMPROVEMENT PROGRAM.....	1,287	1,287	---
234 ENVIRONMENTAL QUALITY TECHNOLOGY - OPERATIONAL SYSTEM.	732	732	---
235 LOWER TIER AIR AND MISSILE DEFENSE (AMD) SYSTEM.....	107,746	97,746	-10,000
236 GUIDED MULTIPLE-LAUNCH ROCKET SYSTEM (GMLRS).....	138,594	128,594	-10,000
238 SECURITY AND INTELLIGENCE ACTIVITIES.....	13,845	13,845	---
239 INFORMATION SYSTEMS SECURITY PROGRAM.....	29,185	29,185	---
240 GLOBAL COMBAT SUPPORT SYSTEM.....	68,976	66,576	-2,400
241 WWMCCS/GLOBAL COMMAND AND CONTROL SYSTEM.....	2,073	2,073	---
245 INTEGRATED BROADCAST SERVICE (IBS).....	459	459	---
246 TACTICAL UNMANNED AERIAL VEHICLES.....	5,097	5,097	---
247 AIRBORNE RECONNAISSANCE SYSTEMS.....	11,177	11,177	---
248 DISTRIBUTED COMMON GROUND/SURFACE SYSTEMS.....	38,121	38,121	---
249 MQ-1C GRAY EAGLE.....	---	5,000	+5,000

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
250 RQ-11 UAV.....	3,218	3,218	---
251 RQ-7 UAV.....	7,817	7,817	---
252 BIOMETRICS ENABLED INTELLIGENCE.....	2,000	2,000	---
253 END ITEM INDUSTRIAL PREPAREDNESS ACTIVITIES.....	59,848	79,848	+20,000
254 SATCOM GROUND ENVIRONMENT (SPACE).....	34,169	34,169	---
255 JOINT TACTICAL GROUND SYSTEM.....	10,275	10,275	---
TOTAL, OPERATIONAL SYSTEMS DEVELOPMENT.....	1,971,553	1,854,994	-116,559
9999 CLASSIFIED PROGRAMS.....	7,273	7,273	---
TOTAL, RESEARCH, DEVELOPMENT, TEST & EVAL, ARMY.....	12,192,771	12,046,783	-145,988

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS  
[in thousands of dollars]

R-1	Budget Request	Committee Recommended	Change from Request
<b>2 DEFENSE RESEARCH SCIENCES</b>	<b>297,976</b>	<b>323,480</b>	<b>25,504</b>
Excess growth		-9,846	
Program increase - propulsion technology		10,000	
Program increase - ballistics and materials technology		10,000	
Program increase - flexible LED lighting		5,350	
Program increase - military waste stream conversion		5,000	
Program increase - multi-layer and dynamically-responsive macromolecular composites		5,000	
<b>3 UNIVERSITY RESEARCH INITIATIVES</b>	<b>65,858</b>	<b>87,858</b>	<b>22,000</b>
Program increase		22,000	
<b>4 UNIVERSITY AND INDUSTRY RESEARCH CENTERS</b>	<b>86,164</b>	<b>111,164</b>	<b>25,000</b>
Program increase - artificial intelligence		20,000	
Program increase - materials in extreme dynamic environments		5,000	
<b>10 LETHALITY TECHNOLOGY</b>	<b>26,961</b>	<b>41,961</b>	<b>15,000</b>
Program increase - medium range railgun weapon system		10,000	
Program increase - additive manufacturing research		5,000	
<b>11 ARMY APPLIED RESEARCH</b>	<b>25,319</b>	<b>28,319</b>	<b>3,000</b>
Program increase - materials recovery technologies for defense supply resiliency		3,000	
<b>12 SOLDIER LETHALITY TECHNOLOGY</b>	<b>115,274</b>	<b>123,900</b>	<b>8,626</b>
Program increase		5,000	
Program increase - medical simulation and training		3,626	
<b>13 GROUND TECHNOLOGY</b>	<b>35,199</b>	<b>51,399</b>	<b>16,200</b>
Program increase - environmental quality enhanced coatings		5,000	
Program increase - additive manufacturing for artificial intelligence and machine learning		5,000	
Program increase - earthen structures soil enhancement		4,000	
Program increase - M1 Abrams tank track system		2,200	
<b>14 NEXT GENERATION COMBAT VEHICLE TECHNOLOGY</b>	<b>219,047</b>	<b>246,047</b>	<b>27,000</b>
Underexecution		-2,000	
Program increase - prototyping energy smart autonomous ground systems		10,000	
Program increase - high performance polymers		5,000	
Program increase - highly electrified vehicles		5,000	
Program increase - additive metals manufacturing		3,000	
Program increase - RPG and IED protection		3,000	
Program increase - modeling and simulation		3,000	
<b>15 NETWORK C3I TECHNOLOGY</b>	<b>114,516</b>	<b>132,516</b>	<b>18,000</b>
Program increase - SATCOM technology		10,000	
Program increase - composite flywheel technology		5,000	
Program increase - small satellite technology		3,000	

R-1		Budget Request	Committee Recommended	Change from Request
16	<b>LONG RANGE PRECISION FIRES TECHNOLOGY</b>	74,327	92,327	18,000
	Underexecution		-3,000	
	Program increase - composite cannon tubes		10,000	
	Program increase - hybrid projectile technology		6,000	
	Program increase - additive manufacturing to support optimized fires		5,000	
17	<b>FUTURE VERTICLE LIFT TECHNOLOGY</b>	93,601	96,601	3,000
	Program increase - flight control technology safety and survivability		3,000	
18	<b>AIR AND MISSILE DEFENSE TECHNOLOGY</b>	50,771	72,771	22,000
	Program increase - sustainable energy materials and manufacturing		12,000	
	Program increase - high energy laser technology		10,000	
40	<b>MEDICAL TECHNOLOGY</b>	99,155	108,155	9,000
	Program increase - military force vector borne health protection		5,000	
	Program increase - heat stress on female soldiers		2,000	
	Program increase - burn patient transfer system		2,000	
42	<b>MEDICAL ADVANCED TECHNOLOGY</b>	42,030	81,030	39,000
	Program increase - peer-reviewed neurotoxin exposure treatment Parkinson's		16,000	
	Program increase - peer-reviewed neurofibromatosis research		15,000	
	Program increase - peer-reviewed military burn research		8,000	
51	<b>SOLDIER LETHALITY ADVANCED TECHNOLOGY</b>	118,468	119,968	1,500
	Program increase - subterranean warfighter advanced technology		1,500	
52	<b>GROUND ADVANCED TECHNOLOGY</b>	12,593	38,593	26,000
	Program increase - electrical system safety and reliability		5,000	
	Program increase - cold regions research		5,000	
	Program increase - high-performance concrete technology		5,000	
	Program increase - lightweight airfield matting		5,000	
	Program increase - secure management of energy generation and storage		3,000	
	Program increase - rapid low energy mobile manufacturing		3,000	
60	<b>HIGH PERFORMANCE COMPUTING MODERNIZATION PROGRAM</b>	184,755	194,755	10,000
	Program increase		10,000	
61	<b>NEXT GENERATION COMBAT VEHICLE ADVANCED TECHNOLOGY</b>	160,035	215,035	55,000
	Program increase - additive manufacturing for jointless hull		20,000	
	Program increase - carbon fiber and graphite foam technology		10,000	
	Program increase - hydrogen fuel cells		10,000	
	Program increase - ATE5.2 engine development		5,000	
	Program increase - additive manufacturing of critical components		5,000	
	Program increase - advanced water harvesting technology		5,000	

R-1		Budget Request	Committee Recommended	Change from Request
62	NETWORK C3I ADVANCED TECHNOLOGY	106,899	107,899	1,000
	Underexecution		-3,000	
	Program increase - unmanned aerial systems and aerostat operations		4,000	
63	LONG RANGE PRECISION FIRES ADVANCED TECHNOLOGY	174,386	179,386	5,000
	Program increase - high energy laser development		5,000	
64	FUTURE VERTICAL LIFT ADVANCED TECHNOLOGY	151,640	167,640	16,000
	Program increase - joint tactical aerial resupply vehicle		6,000	
	Program increase - advanced helicopter seating system		5,000	
	Program increase - adhesive technology		3,000	
	Program increase - helicopter emergency oil systems		2,000	
74	AIR AND MISSILE DEFENSE SYSTEMS ENGINEERING	15,148	17,480	2,332
	Excess support costs		-7,668	
	Program increase - artificial intelligence		10,000	
81	NIGHT VISION SYSTEMS ADVANCED DEVELOPMENT	251,011	206,011	-45,000
	IVAS insufficient justification		-45,000	
84	AVIATION - ADV DEV	459,290	475,290	16,000
	Program increase - FLRAA		16,000	
86	MEDICAL SYSTEMS - ADV DEV	31,175	36,975	5,800
	Program increase - transport telemedicine		5,800	
87	SOLDIER SYSTEMS - ADVANCED DEVELOPMENT	22,113	26,113	4,000
	Program increase - cold weather clothing		4,000	
92	FUTURE TACTICAL UNMANNED AIRCRAFT SYSTEM	40,745	42,745	2,000
	Program adjustment		-5,000	
	Program increase - air launched effects early systems analysis		5,000	
	Program increase - UAV fuel systems enhancements		2,000	
93	LOWER TIER AIR MISSILE DEFENSE (LTAMD) SENSOR	427,772	402,772	-25,000
	Rapid prototyping excess funding		-25,000	
94	TECHNOLOGY MATURATION INITIATIVES	196,676	161,676	-35,000
	Lack of defined schedule		-35,000	
95	MANEUVER - SHORT RANGE AIR DEFENSE (M-SHORAD)	33,100	36,600	3,500
	Excess testing costs		-4,000	
	Program increase - proximity air burst munition		7,500	
97	ARMY ADVANCED COMPONENT DEVELOPMENT & PROTOTYPING	115,116	103,331	-11,785
	Early to need		-11,785	

R-1		Budget Request	Committee Recommended	Change from Request
	<b>SYNTHETIC TRAINING ENVIRONMENT REFINEMENT AND</b>			
99	<b>PROTOTYPING</b>	136,761	111,761	-25,000
	Excess to need		-25,000	
100	<b>HYPERSONICS</b>	228,000	239,000	11,000
	Insufficient justification		-20,000	
	Transfer from ROTE,DW line 124		31,000	
102	<b>FUTURE INTERCEPTOR</b>	8,000	0	-8,000
	Early to need		-8,000	
103	<b>UNIFIED NETWORK TRANSPORT</b>	39,600	29,700	-9,900
	Early to need		-9,900	
104	<b>MOBILE MEDIUM RANGE MISSILE</b>	20,000	0	-20,000
	Excess to need		-20,000	
107	<b>ASSURED POSITIONING, NAVIGATION AND TIMING</b>	192,562	150,110	-42,452
	Pseudolites cancellation		-42,452	
113	<b>INFANTRY SUPPORT WEAPONS</b>	106,121	107,621	1,500
	Program increase - cannon life extension program		1,500	
115	<b>JAVELIN</b>	17,897	16,055	-1,842
	Qualification testing early to need		-1,842	
118	<b>LIGHT TACTICAL WHEELED VEHICLES</b>	10,465	2,965	-7,500
	UAH redesign unjustified request		-7,500	
119	<b>ARMORED SYSTEMS MODERNIZATION - ENG DEV</b>	310,152	293,964	-16,188
	Excess testing and evaluation		-6,188	
	Product development excess growth		-10,000	
120	<b>NIGHT VISION SYSTEMS - SDD</b>	181,732	166,732	-15,000
	Excess IVAS program management		-15,000	
121	<b>COMBAT FEEDING, CLOTHING, AND EQUIPMENT</b>	2,393	7,393	5,000
	Program increase - icemaking capabilities		5,000	
	<b>AIR DEFENSE COMMAND, CONTROL AND INTELLIGENCE -</b>			
123	<b>SDD</b>	43,502	53,502	10,000
	Historical underexecution		-5,000	
	Program increase - high bandwidth cryptomodule enhancements		10,000	
	Program increase - multi-layered tactical protection system		5,000	
127	<b>BRILLIANT ANTI-ARMOR SUBMUNITION (BAT)</b>	25,000	20,000	-5,000
	PFAL excess		-5,000	
129	<b>BRIGADE ANALYSIS, INTEGRATION AND EVALUATION</b>	42,634	38,303	-4,331
	RCO support excess		-4,331	

R-1		Budget Request	Committee Recommended	Change from Request
130	WEAPONS AND MUNITIONS - SDD NGSW small caliber ammo excess growth Program increase - precision guidance aft	181,023	186,323 -4,700 10,000	5,300
131	LOGISTICS AND ENGINEER EQUIPMENT - SDD Program increase - mobile camouflage net systems Program increase - next generation HMMWV shop equipment contact maintenance vehicle	103,226	115,226 7,000 5,000	12,000
134	LANDMINE WARFARE/BARRIER - SDD NGABS unjustified growth	39,208	37,108 -2,100	-2,100
135	ARMY TACTICAL COMMAND & CONTROL HARDWARE & SOFTWARE CPI2 testing previously funded	140,637	138,137 -2,500	-2,500
139	SOLDIER SYSTEMS - WARRIOR DEM/VAL Historical underexecution	5,803	4,803 -1,000	-1,000
140	SUITE OF SURVIVABILITY ENHANCEMENT SYSTEMS Historical underexecution	98,698	88,698 -10,000	-10,000
141	ARTILLERY SYSTEMS Mobile howitzer testing early to need	15,832	10,732 -5,100	-5,100
142	INFORMATION TECHNOLOGY DEVELOPMENT Historical underexecution	126,537	116,537 -10,000	-10,000
156	TACTICAL NETWORK RADIO SYSTEMS (LOW-TIER) Excess growth	35,654	28,404 -7,250	-7,250
160	INDIRECT FIRE PROTECTION CAPABILITY INC 2 BLOCK 1 Transfer to MiP,A line 4	243,228	74,265 -168,963	-168,963
162	EMERGING TECHNOLOGY INITIATIVES Testing and evaluation excess growth	45,896	41,616 -4,280	-4,280
166	ARMY INTEGRATED AIR AND MISSILE DEFENSE (AIAMD) Testing and evaluation excess funding	208,938	203,938 -5,000	-5,000
169	JOINT LIGHT TACTICAL VEHICLE ENG AND MANUFACTURING Army requested transfer from OP,A line 6	2,732	7,232 4,500	4,500
184	ARMY TECHNICAL TEST INSTRUMENTATION AND TARGETS Program increase - space and missile cyber security	46,974	51,974 5,000	5,000
194	TECHNICAL INFORMATION ACTIVITIES Program increase - Army geospatial enterprise	25,060	30,060 5,000	5,000

R-1		Budget Request	Committee Recommended	Change from Request
204	MLRS PRODUCT IMPROVEMENT PROGRAM HIMARS excess growth	22,877	17,615 -5,262	-5,262
209	LONG RANGE PRECISION FIRES (LRPF) Excess growth	164,182	156,682 -7,500	-7,500
216	AVIATION ROCKET SYSTEM PRODUCT IMPROVEMENT AND DEVELOPMENT Integrated munitions launcher early to need	24,221	5,018 -19,203	-19,203
218	APACHE FUTURE DEVELOPMENT Unjustified request	5,448	0 -5,448	-5,448
223	COMBAT VEHICLE IMPROVEMENT PROGRAMS Program support excess growth Fleet enhancements early to need	334,463	290,545 -2,000 -41,918	-43,918
225	155MM SELF-PROPELLED HOWITZER IMPROVEMENTS Testing and evaluation early to need	214,246	180,918 -33,328	-33,328
226	AIRCRAFT MODIFICATIONS/PRODUCT IMPROVEMENT PROGRAMS GPS and survivability previously funded	16,486	11,986 -4,500	-4,500
235	LOWER TIER AIR AND MISSILE DEFENSE (AMD) SYSTEM Testing excess to need	107,746	97,746 -10,000	-10,000
236	GUIDED MULTIPLE-LAUNCH ROCKET SYSTEM Testing excess to need	138,594	128,594 -10,000	-10,000
240	GLOBAL COMBAT SUPPORT SYSTEM Excess to need	68,976	66,576 -2,400	-2,400
249	MQ-1C GRAY EAGLE Program increase - additional sensor development	0	5,000 5,000	5,000
253	END ITEM INDUSTRIAL PREPAREDNESS ACTIVITIES Program increase - technical textiles Program increase - nanoscale materials manufacturing Program increase - glass separators for lithium batteries Program increase - additive manufacturing technology insertion	59,848	79,848 5,000 5,000 5,000 5,000	20,000



## ADVANCED PROJECTILE SYSTEMS

The Committee is aware of ongoing Army efforts to develop enhanced lethality and accuracy for dismounted soldiers. The Committee believes that emerging manufacturing technologies play a critical role in these efforts by enabling rapid flexible munitions production and cost savings for advanced projectile systems. The Committee encourages the Secretary of the Army to continue development, fabrication, and testing of extended range hybrid and affordable precision gun-launched projectiles.

## COLD SPRAY ADDITIVE MANUFACTURING

The Committee supports the advancement of cold spray additive manufacturing that can be utilized to produce high performance materials. These capabilities will enable increased performance, readiness, and sustainability by the transition of the advanced additive manufacturing processes into the Army.

## ASSET PROTECTION TECHNOLOGIES

The Committee recognizes the Army's advancement in developing successful technologies that support warfighter survivability and lethality. Recent innovative technologies include thermal indicating paints, active sensor systems, novel power solutions, printed and embedded sensors for Army weapons systems, and flexible electronics. The Committee encourages the Secretary of the Army to develop, demonstrate, manufacture, and deploy advanced multi-functional materials and technologies that can be combined for customizable asset protection systems and increased weapon system capabilities.

## CYBER AND ELECTRONIC WARFARE FOR THE DISMOUNTED SOLDIER

The Committee remains concerned about cyber and electronic warfare vulnerabilities of the dismounted soldier at the tactical edge. The Committee encourages the Secretary of the Army to continue to develop sensors and prototyping efforts for a lightweight, low-power device that can perform cyber and electronic warfare for situational awareness and force protection for dismounted soldiers.

## AGILE MANUFACTURING MATERIALS PROCESSING

The Center for Agile Materials Manufacturing Science at the Army Research Laboratory provides essential tool and material process development and accelerates the ability of the Army to enhance industrial base capabilities for improving weapon system performance, speed, fuel efficiency, and force protection. The Committee supports these innovations to reduce part assemblies and lifecycle costs, as well as to enable point-of-need part production.

## RESEARCH, DEVELOPMENT, TEST AND EVALUATION, NAVY

Fiscal year 2019 appropriation .....	\$18,510,564,000
Fiscal year 2020 budget request .....	20,270,499,000
Committee recommendation .....	19,125,865,000
Change from budget request .....	- 1,144,634,000

The Committee recommends an appropriation of \$19,125,865,000 for Research, Development, Test and Evaluation, Navy which will provide the following program in fiscal year 2020:

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
RESEARCH, DEVELOPMENT, TEST & EVAL, NAVY			
BASIC RESEARCH			
1 UNIVERSITY RESEARCH INITIATIVES.....	116,850	151,850	+35,000
2 IN-HOUSE LABORATORY INDEPENDENT RESEARCH.....	19,121	19,121	---
3 DEFENSE RESEARCH SCIENCES.....	470,007	458,329	-11,678
TOTAL, BASIC RESEARCH.....	605,978	629,300	+23,322
APPLIED RESEARCH			
4 POWER PROJECTION APPLIED RESEARCH.....	18,546	18,546	---
5 FORCE PROTECTION APPLIED RESEARCH.....	119,517	156,517	+37,000
6 MARINE CORPS LANDING FORCE TECHNOLOGY.....	56,604	61,604	+5,000
7 COMMON PICTURE APPLIED RESEARCH.....	49,297	42,846	-6,451
8 WARFIGHTER SUSTAINMENT APPLIED RESEARCH.....	63,825	63,825	---
9 ELECTROMAGNETIC SYSTEMS APPLIED RESEARCH.....	83,497	83,497	---
10 OCEAN WARFIGHTING ENVIRONMENT APPLIED RESEARCH.....	63,894	78,894	+15,000
11 JOINT NON-LETHAL WEAPONS APPLIED RESEARCH.....	6,346	6,346	---
12 UNDERSEA WARFARE APPLIED RESEARCH.....	57,075	70,075	+13,000
13 FUTURE NAVAL CAPABILITIES APPLIED RESEARCH.....	154,755	150,572	-4,183
14 MINE AND EXPEDITIONARY WARFARE APPLIED RESEARCH.....	36,074	36,074	---
15 INNOVATIVE NAVAL PROTOTYPES (INP) APPLIED RESEARCH....	153,062	141,893	-11,169
16 SCIENCE AND TECHNOLOGY MANAGEMENT - ONR HEADQUARTERS..	73,961	73,961	---
TOTAL, APPLIED RESEARCH.....	936,453	984,650	+48,197

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
17 ADVANCED TECHNOLOGY DEVELOPMENT FORCE PROTECTION ADVANCED TECHNOLOGY.....	35,286	40,286	+5,000
18 ELECTROMAGNETIC SYSTEMS ADVANCED TECHNOLOGY.....	9,499	9,499	---
19 MARINE CORPS ADVANCED TECHNOLOGY DEMONSTRATION (ATD) ..	172,847	172,847	---
20 JOINT NON-LETHAL WEAPONS TECHNOLOGY DEVELOPMENT.....	13,307	13,307	---
21 FUTURE NAVAL CAPABILITIES ADVANCED TECHNOLOGY DEV.....	231,907	216,543	-15,364
22 MANUFACTURING TECHNOLOGY PROGRAM.....	60,138	60,138	---
23 WARFIGHTER PROTECTION ADVANCED TECHNOLOGY.....	4,849	37,149	+32,300
25 NAVY WARFIGHTING EXPERIMENTS AND DEMONSTRATIONS.....	67,739	67,739	---
26 MINE AND EXPEDITIONARY WARFARE ADVANCED TECHNOLOGY....	13,335	13,335	---
27 INNOVATIVE NAVAL PROTOTYPES (INP) ADVANCED TECHNOLOGY..	133,303	125,330	-7,973
TOTAL, ADVANCED TECHNOLOGY DEVELOPMENT.....	742,210	756,173	+13,963
28 DEMONSTRATION & VALIDATION AIR/OCEAN TACTICAL APPLICATIONS.....	32,643	32,643	---
29 AVIATION SURVIVABILITY.....	11,919	11,919	---
30 AIRCRAFT SYSTEMS.....	1,473	1,473	---
31 ASW SYSTEMS DEVELOPMENT.....	7,172	7,172	---
32 TACTICAL AIRBORNE RECONNAISSANCE.....	3,419	3,419	---
33 ADVANCED COMBAT SYSTEMS TECHNOLOGY.....	64,694	58,467	-6,227
34 SURFACE AND SHALLOW WATER MINE COUNTERMEASURES.....	507,000	307,030	-199,970
35 SURFACE SHIP TORPEDO DEFENSE.....	15,800	15,800	---
36 CARRIER SYSTEMS DEVELOPMENT.....	4,997	4,997	---
37 PILOT FISH.....	291,148	214,935	-76,213
38 RETRACT LARCH.....	11,980	11,980	---
39 RETRACT JUNIPER.....	129,163	121,714	-7,449
40 RADIOLOGICAL CONTROL.....	689	689	---
41 SURFACE ASW.....	1,137	1,137	---
42 ADVANCED SUBMARINE SYSTEM DEVELOPMENT.....	148,756	147,751	-1,005

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
43 SUBMARINE TACTICAL WARFARE SYSTEMS.....	11,192	11,192	---
44 SHIP CONCEPT ADVANCED DESIGN.....	81,846	57,846	-24,000
45 SHIP PRELIMINARY DESIGN & FEASIBILITY STUDIES.....	69,084	64,084	-5,000
46 ADVANCED NUCLEAR POWER SYSTEMS.....	181,652	181,652	---
47 ADVANCED SURFACE MACHINERY SYSTEMS.....	25,408	35,408	+10,000
48 CHALK EAGLE.....	64,877	47,310	-17,567
49 LITTORAL COMBAT SHIP (LCS).....	9,934	9,934	---
50 COMBAT SYSTEM INTEGRATION.....	17,251	17,251	---
51 OHIO REPLACEMENT PROGRAM.....	419,051	419,051	---
52 LITTORAL COMBAT SHIP (LCS) MISSION MODULES.....	108,505	105,595	-2,910
53 AUTOMATED TEST AND RE-TEST.....	7,653	37,653	+30,000
54 FRIGATE DEVELOPMENT.....	59,007	59,007	---
55 CONVENTIONAL MUNITIONS.....	9,988	9,988	---
56 MARINE CORPS GROUND COMBAT/SUPPORT SYSTEM.....	86,464	7,610	-78,854
57 JOINT SERVICE EXPLOSIVE ORDNANCE DEVELOPMENT.....	33,478	33,478	---
58 OCEAN ENGINEERING TECHNOLOGY DEVELOPMENT.....	5,619	5,619	---
59 ENVIRONMENTAL PROTECTION.....	20,564	20,564	---
60 NAVY ENERGY PROGRAM.....	26,514	41,514	+15,000
61 FACILITIES IMPROVEMENT.....	3,440	3,440	---
62 CHALK CORAL.....	346,800	307,392	-39,408
63 NAVY LOGISTIC PRODUCTIVITY.....	3,857	3,857	---
64 RETRACT MAPLE.....	258,519	258,519	---
65 LINK PLUMERIA.....	403,909	392,839	-11,070
66 RETRACT ELM.....	63,434	63,434	---
67 LINK EVERGREEN.....	184,110	115,612	-68,498
68 NATO RESEARCH AND DEVELOPMENT.....	7,697	7,697	---
69 LAND ATTACK TECHNOLOGY.....	9,086	9,086	---
70 JOINT NONLETHAL WEAPONS TESTING.....	28,466	28,466	---
71 JOINT PRECISION APPROACH AND LANDING SYSTEMS.....	51,341	51,341	---
72 DIRECTED ENERGY AND ELECTRIC WEAPON SYSTEMS.....	118,169	125,919	+7,750
73 F/A-18 INFRARED SEARCH AND TRACK (IRST).....	113,456	112,416	-1,040
74 DIGITAL WARFARE OFFICE.....	50,120	22,000	-28,120

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
75 SMALL AND MEDIUM UNMANNED UNDERSEA VEHICLES.....	32,527	32,527	---
76 UNMANNED UNDERSEA VEHICLE CORE TECHNOLOGIES.....	54,376	41,910	-12,466
77 RAPID PROTOTYPING, EXPERIMENTATION AND DEMONSTRATION..	36,197	5,000	-31,197
78 LARGE UNMANNED UNDERSEA VEHICLES.....	68,310	68,310	---
79 GERALD R. FORD CLASS NUCLEAR AIRCRAFT CARRIER.....	121,310	112,310	-9,000
80 LITTORAL AIRBORNE MCM.....	17,248	20,248	+3,000
81 SURFACE MINE COUNTERMEASURES.....	18,735	18,735	---
82 TACTICAL AIR DIRECTIONAL INFRARED COUNTERMEASURES.....	68,346	58,449	-9,897
84 NEXT GENERATION LOGISTICS.....	4,420	16,971	+12,551
85 RAPID TECHNOLOGY CAPABILITY PROTOTYPE.....	4,558	4,558	---
86 LX (R).....	12,500	12,500	---
87 ADVANCED UNDERSEA PROTOTYPING.....	181,967	164,437	-17,530
88 COUNTER UNMANNED AIRCRAFT SYSTEMS (C-UAS).....	5,500	5,500	---
89 PRECISION STRIKE WEAPONS DEVELOPMENT PROGRAM.....	718,148	534,438	-183,710
90 SPACE & ELECTRONIC WARFARE (SEW) ARCHITECTURE/ENGINE..	5,263	5,263	---
91 OFFENSIVE ANTI-SURFACE WARFARE WEAPON DEVELOPMENT.....	65,419	65,419	---
92 ASW SYSTEMS DEVELOPMENT - MIP.....	9,991	9,991	---
93 ADVANCED TACTICAL UNMANNED AIRCRAFT SYSTEM.....	21,157	48,657	+27,500
95 ELECTRONIC WARFARE DEVELOPMENT - MIP.....	609	609	---
TOTAL, DEMONSTRATION & VALIDATION.....	5,559,062	4,833,732	-725,330
ENGINEERING & MANUFACTURING DEVELOPMENT			
96 TRAINING SYSTEM AIRCRAFT.....	15,514	15,514	---
97 OTHER HELO DEVELOPMENT.....	28,835	31,812	+2,977
98 AV-8B AIRCRAFT - ENG DEV.....	27,441	27,441	---
100 STANDARDS DEVELOPMENT.....	3,642	3,642	---
101 MULTI-MISSION HELICOPTER UPGRADE DEVELOPMENT.....	19,196	19,196	---
104 WARFARE SUPPORT SYSTEM.....	8,601	8,601	---
105 TACTICAL COMMAND SYSTEM.....	77,232	73,920	-3,312
106 ADVANCED HAWKEYE.....	232,752	191,071	-41,681
108 H-1 UPGRADES.....	65,359	60,991	-4,368
109 ACOUSTIC SEARCH SENSORS.....	47,013	47,013	---
110 V-22A.....	185,105	176,026	-9,079
111 AIR CREW SYSTEMS DEVELOPMENT.....	21,172	19,172	-2,000
112 EA-18.....	143,585	123,637	-19,948

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
113 ELECTRONIC WARFARE DEVELOPMENT.....	116,811	106,049	-10,762
114 EXECUTIVE HELO DEVELOPMENT.....	187,436	164,985	-22,451
116 NEXT GENERATION JAMMER (NGJ).....	524,261	444,127	-80,134
117 JOINT TACTICAL RADIO SYSTEM - NAVY (JTRS-NAVY).....	192,345	190,689	-1,656
118 NEXT GENERATION JAMMER (NGJ) INCREMENT II.....	111,068	90,419	-20,649
119 SURFACE COMBATANT COMBAT SYSTEM ENGINEERING.....	415,625	405,201	-10,424
120 LPD-17 CLASS SYSTEMS INTEGRATION.....	640	640	---
121 SMALL DIAMETER BOMB (SDB).....	50,096	50,096	---
122 STANDARD MISSILE IMPROVEMENTS.....	232,391	227,391	-5,000
123 AIRBORNE MCM.....	10,916	10,916	---
124 NAVAL INTEGRATED FIRE CONTROL-COUNTER AIR SYSTEMS ENG..	33,379	30,084	-3,295
125 ADVANCED ABOVE WATER SENSORS.....	34,554	30,179	-4,375
126 SSN-688 AND TRIDENT MODERNIZATION.....	84,663	78,625	-6,038
127 AIR CONTROL.....	44,923	44,923	---
128 SHIPBOARD AVIATION SYSTEMS.....	10,632	10,632	---
129 COMBAT INFORMATION CENTER CONVERSION.....	16,094	16,094	---
130 AIR AND MISSILE DEFENSE RADAR (AMDR) SYSTEM.....	55,349	52,349	-3,000
131 ADVANCED ARRESTING GEAR (AAG).....	123,490	122,495	-995
132 NEW DESIGN SSN.....	121,010	121,010	---
133 SUBMARINE TACTICAL WARFARE SYSTEM.....	62,426	62,426	---
134 SHIP CONTRACT DESIGN/LIVE FIRE T&E.....	46,809	46,809	---
135 NAVY TACTICAL COMPUTER RESOURCES.....	3,692	3,692	---
137 MINE DEVELOPMENT.....	28,964	28,964	---
138 LIGHTWEIGHT TORPEDO DEVELOPMENT.....	148,349	115,541	-32,808
139 JOINT SERVICE EXPLOSIVE ORDNANCE DEVELOPMENT.....	8,237	8,237	---
140 USMC GROUND COMBAT/SUPPORTING ARMS SYSTEMS - ENG DEV..	22,000	20,085	-1,915
141 PERSONNEL, TRAINING, SIMULATION, AND HUMAN FACTORS....	5,500	5,500	---
142 JOINT STANDOFF WEAPON SYSTEMS.....	18,725	16,225	-2,500
143 SHIP SELF DEFENSE (DETECT & CONTROL).....	192,603	180,085	-12,518
144 SHIP SELF DEFENSE (ENGAGE: HARD KILL).....	137,268	128,768	-8,500
145 SHIP SELF DEFENSE (ENGAGE: SOFT KILL/EW).....	97,363	95,282	-2,081
146 INTELLIGENCE ENGINEERING.....	26,710	30,610	+3,900
147 MEDICAL DEVELOPMENT.....	8,181	33,181	+25,000

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
148 NAVIGATION/ID SYSTEM.....	40,755	45,755	+5,000
149 JOINT STRIKE FIGHTER (JSF) - EMD.....	1,710	1,710	---
150 JOINT STRIKE FIGHTER (JSF).....	1,490	1,490	---
153 INFORMATION TECHNOLOGY DEVELOPMENT.....	1,494	1,494	---
154 INFORMATION TECHNOLOGY DEVELOPMENT.....	384,162	304,364	-79,798
155 ANTI-TAMPER TECHNOLOGY SUPPORT.....	4,882	4,882	---
156 CH-53K.....	516,955	516,955	---
158 MISSION PLANNING.....	75,886	72,566	-3,320
159 COMMON AVIONICS.....	43,187	37,055	-6,132
160 SHIP TO SHORE CONNECTOR (SSC).....	4,909	4,909	---
161 T-AO (X).....	1,682	1,682	---
162 UNMANNED CARRIER AVIATION.....	671,258	590,425	-80,833
163 JOINT AIR-TO-GROUND MISSILE (JAGM).....	18,393	12,576	-5,817
165 MULTI-MISSION MARITIME AIRCRAFT (MMA).....	21,472	21,472	---
166 MULTI-MISSION MARITIME AIRCRAFT (MMA) INCREMENT 3.....	177,234	158,199	-19,035
167 MARINE CORPS ASSAULT VEHICLES SYSTEM DEVELOPMENT AND DEMO.....	77,322	68,136	-9,186
168 JOINT LIGHT TACTICAL VEHICLE (JLTV) SYSTEM DEVELOPMENT AND DEMO.....	2,105	2,105	---
169 DDG-1000.....	111,435	111,435	---
172 TACTICAL CRYPTOLOGIC SYSTEMS.....	101,339	91,091	-10,248
173 CYBER OPERATIONS TECHNOLOGY DEVELOPMENT.....	26,406	756	-25,650
TOTAL, ENGINEERING & MANUFACTURING DEVELOPMENT.....	6,332,033	5,819,402	-512,631
174 RDT&E MANAGEMENT SUPPORT THREAT SIMULATOR DEVELOPMENT.....	66,678	62,678	-4,000
175 TARGET SYSTEMS DEVELOPMENT.....	12,027	12,027	---
176 MAJOR T&E INVESTMENT.....	85,348	102,348	+17,000
178 STUDIES AND ANALYSIS SUPPORT - NAVY.....	3,908	3,908	---
179 CENTER FOR NAVAL ANALYSES.....	47,669	47,669	---
180 NEXT GENERATION FIGHTER.....	20,698	20,698	---



(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
182 TECHNICAL INFORMATION SERVICES.....	988	988	---
183 MANAGEMENT, TECHNICAL & INTERNATIONAL SUPPORT.....	102,401	113,844	+11,443
184 STRATEGIC TECHNICAL SUPPORT.....	3,742	3,742	---
186 RDT&E SHIP AND AIRCRAFT SUPPORT.....	93,872	93,872	---
187 TEST AND EVALUATION SUPPORT.....	394,020	390,528	-3,492
188 OPERATIONAL TEST AND EVALUATION CAPABILITY.....	25,145	25,145	---
189 NAVY SPACE AND ELECTRONIC WARFARE (SEW) SUPPORT.....	15,773	12,652	-3,121
190 SEW SURVEILLANCE/RECONNAISSANCE SUPPORT.....	8,402	4,201	-4,201
191 MARINE CORPS PROGRAM WIDE SUPPORT.....	37,265	29,130	-8,135
192 MANAGEMENT HEADQUARTERS - R&D.....	39,673	39,673	---
193 WARFARE INNOVATION MANAGEMENT.....	28,750	28,750	---
196 INSIDER THREAT.....	2,645	2,645	---
197 MANAGEMENT HEADQUARTERS (DEPARTMENTAL SUPPORT ACTIVITIES).....	1,460	1,460	---
TOTAL, RDT&E MANAGEMENT SUPPORT.....	990,464	995,958	+5,494
OPERATIONAL SYSTEMS DEVELOPMENT			
202 HARPOON MODIFICATIONS.....	2,302	2,302	---
203 F-35 C2D2.....	422,881	422,881	---
204 F-35 C2D2.....	383,741	383,741	---
205 COOPERATIVE ENGAGEMENT CAPABILITY (CEC).....	127,924	126,404	-1,520
207 STRATEGIC SUB & WEAPONS SYSTEM SUPPORT.....	157,676	124,492	-33,184
208 SSBN SECURITY TECHNOLOGY PROGRAM.....	43,354	43,354	---
209 SUBMARINE ACOUSTIC WARFARE DEVELOPMENT.....	6,815	6,815	---
210 NAVY STRATEGIC COMMUNICATIONS.....	31,174	28,674	-2,500
211 F/A-18 SQUADRONS.....	213,715	207,911	-5,804
213 SURFACE SUPPORT.....	36,389	34,602	-1,787
214 TOMAHAWK AND TOMAHAWK MISSION PLANNING CENTER (TMPC) ..	320,134	286,799	-33,335
215 INTEGRATED SURVEILLANCE SYSTEM.....	88,382	88,382	---
216 SHIP-TOWED ARRAY SURVEILLANCE SYSTEMS.....	14,449	14,449	---
217 AMPHIBIOUS TACTICAL SUPPORT UNITS.....	6,931	6,931	---
218 GROUND/AIR TASK ORIENTED RADAR.....	23,891	23,891	---
219 CONSOLIDATED TRAINING SYSTEMS DEVELOPMENT.....	129,873	128,673	-1,200
221 ELECTRONIC WARFARE (EW) READINESS SUPPORT.....	82,325	62,434	-19,891
222 HARM IMPROVEMENT.....	138,431	132,371	-6,060

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
224 SURFACE ASW COMBAT SYSTEM INTEGRATION.....	29,572	29,572	---
225 MK-48 ADCAP.....	85,973	72,265	-13,708
226 AVIATION IMPROVEMENTS.....	125,461	122,894	-2,567
227 OPERATIONAL NUCLEAR POWER SYSTEMS.....	106,192	106,192	---
228 MARINE CORPS COMMUNICATIONS SYSTEMS.....	143,317	142,899	-418
229 COMMON AVIATION COMMAND AND CONTROL SYSTEM .....	4,489	4,489	---
230 MARINE CORPS GROUND COMBAT/SUPPORTING ARMS SYSTEMS....	51,788	51,788	---
231 MARINE CORPS COMBAT SERVICES SUPPORT.....	37,761	39,528	+1,767
232 USMC INTELLIGENCE/ELECTRONIC WARFARE SYSTEMS (MIP)....	21,458	21,458	---
233 AMPHIBIOUS ASSAULT VEHICLE.....	5,476	5,476	---
234 TACTICAL AIM MISSILES.....	19,488	19,488	---
235 ADVANCED MEDIUM RANGE AIR-TO-AIR MISSILE (AMRAAM)....	39,029	34,191	-4,838
239 SATELLITE COMMUNICATIONS (SPACE).....	34,344	34,344	---
240 CONSOLIDATED AFLOAT NETWORK ENTERPRISE SERVICES.....	22,873	22,873	---
241 INFORMATION SYSTEMS SECURITY PROGRAM.....	41,853	41,853	---
243 JOINT MILITARY INTELLIGENCE PROGRAMS.....	8,913	8,913	---
244 TACTICAL UNMANNED AERIAL VEHICLES.....	9,451	9,451	---
245 UAS INTEGRATION AND INTEROPERABILITY.....	42,315	40,446	-1,869
246 DISTRIBUTED COMMON GROUND SYSTEMS/SURFACE SYSTEMS....	22,042	22,042	---
248 MQ-4C TRITON.....	11,784	11,784	---
249 MQ-8 UAV.....	29,618	29,618	---
250 RQ-11 UAV.....	509	---	-509
251 SMALL (LEVEL 0) TACTICAL UAS (STUASLO).....	11,545	3,533	-8,012

## 251

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
252 RQ-21A.....	10,914	6,000	-4,914
253 MULTI-INTELLIGENCE SENSOR DEVELOPMENT.....	70,612	70,612	---
254 UNMANNED AERIAL SYSTEMS (UAS) PAYLOADS (MIP).....	3,704	6,704	+3,000
255 RQ-4 MODERNIZATION.....	202,346	202,346	---
256 MODELING AND SIMULATION SUPPORT.....	7,119	12,119	+5,000
257 DEPOT MAINTENANCE (NON-IF).....	38,182	48,182	+10,000
258 MARITIME TECHNOLOGY (MARITECH).....	6,779	6,779	---
259 SATELLITE COMMUNICATIONS (SPACE).....	15,868	15,868	---
TOTAL, OPERATIONAL SYSTEMS DEVELOPMENT.....	3,491,162	3,368,813	-122,349
9999 CLASSIFIED PROGRAMS.....	1,613,137	1,737,837	+124,700
TOTAL, RESEARCH, DEVELOPMENT, TEST & EVAL, NAVY.....	20,270,499	19,125,865	-1,144,634
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EXPLANATION OF PROJECT LEVEL ADJUSTMENTS  
[In thousands of dollars]

R-1	Budget Request	Committee Recommended	Change from Request
<b>1 UNIVERSITY RESEARCH INITIATIVES</b>	<b>116,850</b>	<b>151,850</b>	<b>35,000</b>
Program increase		20,000	
Program increase - defense university research instrumentation program		10,000	
Program increase - multi-disciplinary university research initiative program		5,000	
<b>3 DEFENSE RESEARCH SCIENCES</b>	<b>470,007</b>	<b>458,329</b>	<b>-11,678</b>
Mathematics, computer, and information sciences unjustified growth		-11,678	
<b>5 FORCE PROTECTION APPLIED RESEARCH</b>	<b>119,517</b>	<b>156,517</b>	<b>37,000</b>
Program increase - energy resilience efforts		5,000	
Program increase - coastal environmental research		5,000	
Program increase - power generation and storage research		5,000	
Program increase - hybrid composite research		2,500	
Program increase - platform reliability and advanced technical research		3,500	
Program increase - advanced energetics research		10,000	
Program increase - navy power and energy systems technology		6,000	
<b>6 MARINE CORPS LANDING FORCE TECHNOLOGY</b>	<b>56,604</b>	<b>61,604</b>	<b>5,000</b>
Program increase		5,000	
<b>7 COMMON PICTURE APPLIED RESEARCH</b>	<b>49,297</b>	<b>42,846</b>	<b>-6,451</b>
Applied information sciences for decision making excess growth		-6,451	
<b>OCEAN WARFIGHTING ENVIRONMENT APPLIED RESEARCH</b>			
<b>10 RESEARCH</b>	<b>63,894</b>	<b>78,894</b>	<b>15,000</b>
Program increase - naval special warfare		5,000	
Program increase - task force ocean		10,000	
<b>12 UNDERSEA WARFARE APPLIED RESEARCH</b>	<b>57,075</b>	<b>70,075</b>	<b>13,000</b>
Program increase - undersea sensing and communications		5,000	
Program increase - energetics and warhead technology development		8,000	
<b>13 FUTURE NAVAL CAPABILITIES APPLIED RESEARCH</b>	<b>154,755</b>	<b>150,572</b>	<b>-4,183</b>
Sea warfare and weapons excess growth		-4,183	
<b>INNOVATIVE NAVAL PROTOTYPES (INP) APPLIED RESEARCH</b>			
<b>15 RESEARCH</b>	<b>153,062</b>	<b>141,893</b>	<b>-11,169</b>
Artificial intelligence excess growth		-7,435	
Cyber excess growth		-3,734	

R-1		Budget Request	Committee Recommended	Change from Request
17	<b>FORCE PROTECTION ADVANCED TECHNOLOGY</b>	35,286	40,286	5,000
	Program increase - additive manufacturing for functional alloys		5,000	
	<b>FUTURE NAVAL CAPABILITIES ADVANCED</b>			
21	<b>TECHNOLOGY DEV</b>	231,907	216,543	-15,364
	Expeditionary maneuver warfare excess growth		-8,280	
	Surface warfare excess growth		-7,084	
23	<b>WARFIGHTER PROTECTION ADVANCED TECHNOLOGY</b>	4,849	37,149	32,300
	Program increase - bone marrow registry program		24,300	
	Program increase - novel therapeutic interventions research		4,000	
	Program increase - extreme environment warfighter safety research		4,000	
	<b>INNOVATIVE NAVAL PROTOTYPES (INP) ADVANCED</b>			
27	<b>TECHNOLOGY</b>	133,303	125,330	-7,973
	Artificial intelligence excess growth		-7,973	
33	<b>ADVANCED COMBAT SYSTEMS TECHNOLOGY</b>	64,694	58,467	-6,227
	Project 3438 HIJENKS concurrency		-6,227	
	<b>SURFACE AND SHALLOW WATER MINE</b>			
34	<b>COUNTERMEASURES</b>	507,000	307,030	-199,970
	Project 1234 testing delays		-4,350	
	Project 3066 limit to one LUSV		-96,420	
	Project 3066 long lead material early to need		-79,200	
	Project 3066 excess design support		-20,000	
37	<b>PILOT FISH</b>	291,148	214,935	-76,213
	Insufficient budget justification		-76,213	
39	<b>RETRACT JUNIPER</b>	129,163	121,714	-7,449
	Insufficient budget justification		-7,449	
42	<b>ADVANCED SUBMARINE SYSTEM DEVELOPMENT</b>	148,756	147,751	-1,005
	Project 2033 contract delays		-575	
	Project 3391 contract delays		-640	
	Project 9710 unjustified new start		-9,790	
	Program increase - small business technology insertion		10,000	
44	<b>SHIP CONCEPT ADVANCED DESIGN</b>	81,846	57,846	-24,000
	Future surface combatant studies duplicative efforts		-24,000	
45	<b>SHIP PRELIMINARY DESIGN &amp; FEASIBILITY STUDIES</b>	69,084	64,084	-5,000
	Future surface combatant concept development concurrency		-5,000	
47	<b>ADVANCED SURFACE MACHINERY SYSTEMS</b>	25,408	35,408	10,000
	Program increase - silicon carbide power modules		5,000	
	Program increase - advanced power electronics integration		5,000	

R-1	Budget Request	Committee Recommended	Change from Request
48 CHALK EAGLE	64,877	47,310	-17,567
Insufficient budget justification		-17,567	
52 LITTORAL COMBAT SHIP (LCS) MISSION MODULES	108,505	105,595	-2,910
SUW mission package schedule delay		-2,910	
53 AUTOMATED TEST AND RE-TEST	7,653	37,653	30,000
Program increase		30,000	
56 MARINE CORPS GROUND COMBAT/SUPPORT SYSTEM	86,464	7,610	-78,854
Project 1558 concurrency		-6,000	
Project 1558 excess program management		-1,387	
Project 1964 unjustified request		-980	
Project 2614 unjustified request		-500	
Project 7400 insufficient budget justification		-69,987	
60 NAVY ENERGY PROGRAM	26,514	41,514	15,000
Program increase		15,000	
62 CHALK CORAL	346,800	307,392	-39,408
Insufficient budget justification		-39,408	
65 LINK PLUMERIA	403,909	392,839	-11,070
Insufficient budget justification		-11,070	
67 LINK EVERGREEN	184,110	115,612	-68,498
Insufficient budget justification		-68,498	
DIRECTED ENERGY AND ELECTRIC WEAPON			
72 SYSTEMS	118,169	125,919	7,750
Project 2731 early to need		-2,250	
Program increase - high energy laser weapon system for counter-UAS area defense		10,000	
73 F/A-18 INFRARED SEARCH AND TRACK (IRST)	113,456	112,416	-1,040
Hardware development contract delay		-1,040	
74 DIGITAL WARFARE OFFICE	50,120	22,000	-28,120
Project 3255 unjustified request		-25,000	
Project 3425 unjustified growth		-3,120	
UNMANNED UNDERSEA VEHICLE CORE			
76 TECHNOLOGIES	54,376	41,910	-12,466
Project 4053 duplicative efforts		-12,466	
RAPID PROTOTYPING, EXPERIMENTATION AND			
77 DEMONSTRATION	36,197	5,000	-31,197
Unjustified request		-31,197	

R-1	Budget Request	Committee Recommended	Change from Request
<b>GERALD R. FORD CLASS NUCLEAR AIRCRAFT</b>			
<b>79 CARRIER</b>	<b>121,310</b>	<b>112,310</b>	<b>-9,000</b>
Integrated digital shipbuilding insufficient budget justification		-9,000	
<b>80 LITTORAL AIRBORNE MCM</b>	<b>17,248</b>	<b>20,248</b>	<b>3,000</b>
Program increase - coastal battlefield reconnaissance and analysis system		3,000	
<b>TACTICAL AIR DIRECTIONAL INFRARED</b>			
<b>82 COUNTERMEASURES</b>	<b>68,346</b>	<b>58,449</b>	<b>-9,897</b>
Project 3348 product development previously funded		-9,897	
<b>84 NEXT GENERATION LOGISTICS</b>	<b>4,420</b>	<b>16,971</b>	<b>12,551</b>
Project 2743 unjustified new start		-2,449	
Program increase - additive manufacturing		10,000	
Program increase - construction robotics		5,000	
<b>87 ADVANCED UNDERSEA PROTOTYPING</b>	<b>181,967</b>	<b>164,437</b>	<b>-17,530</b>
Testing early to need		-10,000	
Dual-vendor award acquisition strategy		-7,530	
<b>PRECISION STRIKE WEAPONS DEVELOPMENT</b>			
<b>89 PROGRAM</b>	<b>718,148</b>	<b>534,438</b>	<b>-183,710</b>
Conventional prompt global strike excess growth		-183,710	
<b>93 ADVANCED TACTICAL UNMANNED AIRCRAFT SYSTEM</b>	<b>21,157</b>	<b>48,657</b>	<b>27,500</b>
Program increase - mobile unmanned/manned distributed lethality airborne network and fused integrated naval network		9,000	
Program increase - large unmanned logistics systems air development		18,500	
<b>97 OTHER HELO DEVELOPMENT</b>	<b>28,835</b>	<b>31,812</b>	<b>2,977</b>
CH/MH-53 unjustified growth		-2,023	
Program increase - attack and utility helicopter replacement		5,000	
<b>105 TACTICAL COMMAND SYSTEM</b>	<b>77,232</b>	<b>73,920</b>	<b>-3,312</b>
Project 2345 duplicative efforts		-72	
Naval operational supply system previously funded		-3,240	
<b>106 ADVANCED HAWKEYE</b>	<b>232,752</b>	<b>191,071</b>	<b>-41,681</b>
Data fusion schedule delays		-2,473	
Counter electronic attack early to need		-11,800	
Theater combat identification early to need		-17,608	
ALQ-217 electronic support measures upgrade and survivability early to need		-9,800	
<b>108 H-1 UPGRADES</b>	<b>65,359</b>	<b>60,991</b>	<b>-4,368</b>
Weapons and sensors testing and integration unjustified growth		-4,368	

R-1	Budget Request	Committee Recommended	Change from Request
110 V-22A	185,105	176,026	-9,079
V-22 CMV development previously funded		-2,853	
V-22 multi-spectral sensor/helmet mounted display previously funded		-7,220	
V-22 development, test and evaluation previously funded		-4,006	
Program increase - active vibration control system		5,000	
111 AIR CREW SYSTEMS DEVELOPMENT	21,172	19,172	-2,000
Schedule delays		-2,000	
112 EA-18	143,585	123,637	-19,948
EA-18G design and avionics integration unjustified growth		-19,948	
113 ELECTRONIC WARFARE DEVELOPMENT	116,811	106,049	-10,762
Jammer techniques optimization excess growth		-1,634	
Special capability pod excess to need		-8,300	
Software reprogrammable payload unjustified growth		-828	
114 EXECUTIVE HELO DEVELOPMENT	187,436	164,985	-22,451
VH-92A improvements early to need		-22,451	
116 NEXT GENERATION JAMMER (NGJ)	524,261	444,127	-80,134
Hardware procurement contract delays		-63,676	
Test and evaluation delays		-16,458	
117 JOINT TACTICAL RADIO SYSTEM - NAVY (JTRS-NAVY)	192,345	190,689	-1,656
Network tactical common data link excess growth		-1,656	
118 NEXT GENERATION JAMMER (NGJ) INCREMENT II	111,068	90,419	-20,649
Systems engineering failure to comply with congressional direction		-9,568	
Primary hardware development previously funded		-3,891	
Aircraft integration early to need		-7,190	
SURFACE COMBATANT COMBAT SYSTEM			
119 ENGINEERING	415,625	405,201	-10,424
Aegis development support studies and analysis early to need		-1,941	
Aegis destroyer BL 5 upgrades schedule delays		-5,505	
Combat systems test bed build 4 early to need		-2,978	
122 STANDARD MISSILE IMPROVEMENTS	232,391	227,391	-5,000
Project 0439 schedule delays		-5,000	
NAVAL INTEGRATED FIRE CONTROL-COUNTER AIR			
124 SYSTEMS ENG	33,379	30,084	-3,295
Project 3159 contract delays		-3,295	
125 ADVANCED ABOVE WATER SENSORS	34,554	30,179	-4,375
Project 3408 concurrency		-4,375	



R-1	Budget Request	Committee Recommended	Change from Request
<b>126 SSN-688 AND TRIDENT MODERNIZATION</b>	<b>84,663</b>	<b>78,625</b>	<b>-6,038</b>
Project 0775 future efforts early to need		-6,038	
<b>130 AIR AND MISSILE DEFENSE RADAR (AMDR) SYSTEM</b>	<b>55,349</b>	<b>52,349</b>	<b>-3,000</b>
Engineering changes testing and evaluation early to need		-3,000	
<b>131 ADVANCED ARRESTING GEAR (AAG)</b>	<b>123,490</b>	<b>122,495</b>	<b>-995</b>
AAG training schedule delay		-995	
<b>138 LIGHTWEIGHT TORPEDO DEVELOPMENT</b>	<b>148,349</b>	<b>115,541</b>	<b>-32,808</b>
Project 3418 test set development early to need		-11,000	
Project 3418 concurrency		-21,808	
<b>USMC GROUND COMBAT/SUPPORTING ARMS</b>			
<b>140 SYSTEMS - ENG DEV</b>	<b>22,000</b>	<b>20,085</b>	<b>-1,915</b>
Testing early to need		-1,915	
<b>142 JOINT STANDOFF WEAPON SYSTEMS</b>	<b>18,725</b>	<b>16,225</b>	<b>-2,500</b>
Support excess to need		-2,500	
<b>143 SHIP SELF DEFENSE (DETECT &amp; CONTROL)</b>	<b>192,603</b>	<b>180,085</b>	<b>-12,518</b>
Project 2178 prior year carryover		-12,518	
<b>144 SHIP SELF DEFENSE (ENGAGE: HARD KILL)</b>	<b>137,268</b>	<b>128,768</b>	<b>-8,500</b>
Project 0173 block 2 obsolescence and redesign early to need		-7,000	
MK 73 tracker-illuminator unjustified new start		-1,500	
<b>145 SHIP SELF DEFENSE (ENGAGE: SOFT KILL/EW)</b>	<b>97,363</b>	<b>95,282</b>	<b>-2,081</b>
Project 3316 testing delays		-2,081	
<b>146 INTELLIGENCE ENGINEERING</b>	<b>26,710</b>	<b>30,610</b>	<b>3,900</b>
Program increase - countermeasure development		3,900	
<b>147 MEDICAL DEVELOPMENT</b>	<b>8,181</b>	<b>33,181</b>	<b>25,000</b>
Program increase - wound care research		10,000	
Program increase - military dental research		10,000	
Program increase - hypoxia research		5,000	
<b>148 NAVIGATION/ID SYSTEM</b>	<b>40,755</b>	<b>45,755</b>	<b>5,000</b>
Program increase - micro-IFF components		5,000	
<b>154 INFORMATION TECHNOLOGY DEVELOPMENT</b>	<b>384,162</b>	<b>304,364</b>	<b>-79,798</b>
Electronic procurement system concurrency		-5,000	
Single point of entry excess growth		-7,083	
Navy personnel and pay concurrency		-38,854	
NMMES-TR excess growth		-14,767	
Aviation logistics environment contract delay		-10,380	
Dynamic scheduling unjustified request		-2,038	
Vector unjustified request		-1,676	

R-1	Budget Request	Committee Recommended	Change from Request
<b>158 MISSION PLANNING</b>	<b>75,886</b>	<b>72,566</b>	<b>-3,320</b>
CMBRE concurrency		-3,320	
<b>159 COMMON AVIONICS</b>	<b>43,187</b>	<b>37,055</b>	<b>-6,132</b>
Ground proximity warning system/terrain awareness warning system previously funded		-1,675	
Avionics architectures team unjustified growth		-4,457	
<b>162 UNMANNED CARRIER AVIATION</b>	<b>671,258</b>	<b>590,425</b>	<b>-80,833</b>
Air segment product development excess to need		-20,600	
Test and evaluation prior year carryover		-8,043	
UMCS excess to need		-52,190	
<b>163 JOINT AIR-TO-GROUND MISSILE (JAGM)</b>	<b>18,393</b>	<b>12,576</b>	<b>-5,817</b>
Schedule delays		-5,817	
<b>MULTI-MISSION MARITIME AIRCRAFT (MMA)</b>			
<b>166 INCREMENT 3</b>	<b>177,234</b>	<b>158,199</b>	<b>-19,035</b>
Testing prior year carryover		-10,335	
ECP concurrency - ECP 7 early to need		-16,700	
Program increase - SBIR technology insertion		8,000	
<b>MARINE CORPS ASSAULT VEHICLES SYSTEM</b>			
<b>167 DEVELOPMENT AND DEMO</b>	<b>77,322</b>	<b>68,136</b>	<b>-9,186</b>
Project 0026 excess growth		-6,985	
ACV 1.2 training devices early to need		-2,201	
<b>172 TACTICAL CRYPTOLOGIC SYSTEMS</b>	<b>101,339</b>	<b>91,091</b>	<b>-10,248</b>
SSEE Inc F previously funded		-1,700	
Spectral delays		-8,548	
<b>173 CYBER OPERATIONS TECHNOLOGY DEVELOPMENT</b>	<b>26,406</b>	<b>756</b>	<b>-25,650</b>
Tool development excess to need		-6,052	
Common access platform early to need		-19,598	
<b>174 THREAT SIMULATOR DEVELOPMENT</b>	<b>66,678</b>	<b>62,678</b>	<b>-4,000</b>
Insufficient budget justification - classified program reduction		-4,000	
<b>176 MAJOR T&amp;E INVESTMENT</b>	<b>85,348</b>	<b>102,348</b>	<b>17,000</b>
Program increase - undersea range modernization		4,000	
Program increase - fifth generation radar ground test upgrades		8,000	
Program increase - complex electronic warfare test equipment		5,000	
<b>MANAGEMENT, TECHNICAL &amp; INTERNATIONAL</b>			
<b>183 SUPPORT</b>	<b>102,401</b>	<b>113,844</b>	<b>11,443</b>
MTMD excess growth		-3,557	
Program increase - printed circuit board executive agent		15,000	
<b>187 TEST AND EVALUATION SUPPORT</b>	<b>394,020</b>	<b>390,528</b>	<b>-3,492</b>
Project 3386 prior year carryover		-3,492	

R-1	Budget Request	Committee Recommended	Change from Request
<b>NAVY SPACE AND ELECTRONIC WARFARE (SEW)</b>			
<b>189 SUPPORT</b>	<b>15,773</b>	<b>12,652</b>	<b>-3,121</b>
Project 3239 unjustified growth		-3,121	
<b>190 SEW SURVEILLANCE/RECONNAISSANCE SUPPORT</b>	<b>8,402</b>	<b>4,201</b>	<b>-4,201</b>
Insufficient budget justification - classified program reduction		-4,201	
<b>191 MARINE CORPS PROGRAM WIDE SUPPORT</b>	<b>37,265</b>	<b>29,130</b>	<b>-8,135</b>
Project 3009 unjustified growth		-8,135	
<b>205 COOPERATIVE ENGAGEMENT CAPABILITY (CEC)</b>	<b>127,924</b>	<b>126,404</b>	<b>-1,520</b>
Elektra early to need		-1,520	
<b>207 STRATEGIC SUB &amp; WEAPONS SYSTEM SUPPORT</b>	<b>157,676</b>	<b>124,492</b>	<b>-33,184</b>
D5LE2 unjustified request		-44,184	
Program increase - next generation strategic inertial measurement unit		6,000	
Program increase - carbon materials for thermal protection systems		5,000	
<b>210 NAVY STRATEGIC COMMUNICATIONS</b>	<b>31,174</b>	<b>28,674</b>	<b>-2,500</b>
Project 2959 - E6B technical analysis and risk reduction schedule delays		-2,500	
<b>211 F/A-18 SQUADRONS</b>	<b>213,715</b>	<b>207,911</b>	<b>-5,804</b>
F/A-18 Block III support prior year carryover		-7,804	
Program increase - noise reduction research		2,000	
<b>213 SURFACE SUPPORT</b>	<b>36,389</b>	<b>34,602</b>	<b>-1,787</b>
Military GPS user equipment previously funded		-1,787	
<b>TOMAHAWK AND TOMAHAWK MISSION PLANNING CENTER (TMPC)</b>			
<b>214</b>	<b>320,134</b>	<b>286,799</b>	<b>-33,335</b>
Maritime strike schedule delays		-21,237	
JMEWS schedule delays		-12,098	
<b>219 CONSOLIDATED TRAINING SYSTEMS DEVELOPMENT</b>	<b>129,873</b>	<b>128,673</b>	<b>-1,200</b>
Project 3356 LCS Navy training system plan execution early to need		-1,200	
<b>221 ELECTRONIC WARFARE (EW) READINESS SUPPORT</b>	<b>82,325</b>	<b>62,434</b>	<b>-19,891</b>
Prior year carryover		-19,891	
<b>222 HARM IMPROVEMENT</b>	<b>138,431</b>	<b>132,371</b>	<b>-6,060</b>
AARGM ER test schedule discrepancy		-6,060	
<b>225 MK-48 ADCAP</b>	<b>85,973</b>	<b>72,265</b>	<b>-13,708</b>
TI-1 hardware development prior year carryover		-13,708	

R-1	Budget Request	Committee Recommended	Change from Request
226 AVIATION IMPROVEMENTS	125,461	122,894	-2,567
EO4 concurrency		-2,567	
228 MARINE CORPS COMMUNICATIONS SYSTEMS	143,317	142,899	-418
Project 2278 support costs excess to need		-9,018	
Program increase - multi function electronic warfare		8,600	
231 MARINE CORPS COMBAT SERVICES SUPPORT	37,761	39,528	1,767
Project 2510 prior year carryover		-1,233	
Program increase - airborne power generation technology		3,000	
ADVANCED MEDIUM RANGE AIR-TO-AIR MISSILE			
235 (AMRAAM)	39,029	34,191	-4,838
System improvement program efforts prior year carryover		-4,838	
245 UAS INTEGRATION AND INTEROPERABILITY	42,315	40,446	-1,869
Increment III early to need		-1,869	
250 RQ-11 UAV	509	0	-509
Excess to need		-509	
251 SMALL (LEVEL 0) TACTICAL UAS (STUASL0)	11,545	3,533	-8,012
Lack of requirement		-8,012	
252 RQ-21A	10,914	6,000	-4,914
Lack of requirement		-4,914	
254 UNMANNED AERIAL SYSTEMS (UAS) PAYLOADS (MIP)	3,704	6,704	3,000
Program increase - spectral and reconnaissance imagery for tactical exploitation		3,000	
256 MODELING AND SIMULATION SUPPORT	7,119	12,119	5,000
Program increase - joint simulation environment		5,000	
257 DEPOT MAINTENANCE (NON-IF)	38,182	48,182	10,000
Program increase - MH-60 NRE		10,000	
9999 CLASSIFIED PROGRAMS	1,613,137	1,737,837	124,700
Classified adjustments		124,700	

## NUCLEAR SEA-LAUNCHED CRUISE MISSILE

The Committee understands that the Navy budget request includes \$5,000,000 to begin an analysis of alternatives for a new Nuclear Sea-launched Cruise Missile (SLCM-N) pursuant to the 2018 Nuclear Posture Review's call for the "rapid development of a modern SLCM." The recommendation includes full funding for this request, but the Committee is concerned with the potential costs and operational impacts of this potential additive acquisition program. The Committee directs the Secretary of the Navy to submit a report to the congressional defense committees not later than 90 days after the enactment of this Act that provides the estimated cost of a SLCM-N acquisition program, an estimate of the increased operational and security costs that would be imposed on the fleet by a SLCM-N, an assessment of whether possession of a SLCM-N by Navy submarines would affect access to overseas ports and facilities, and a description of the validated military requirement. This report may be submitted with a classified annex if necessary.

## SMALL BUSINESS INNOVATION RESEARCH PROGRAM

The Committee recognizes that the Small Business Innovation Research (SBIR) program is a valuable tool to engage small business and provide a pathway for innovators to conduct business with the Department of Defense. The program is designed to attract and engage small businesses to perform research and development activities and to assist those businesses in commercializing their technologies for future use by the Department of Defense. According to SBIR law, agencies are to use the SBIR awardee to the greatest extent practicable, thus giving that awardee the opportunity to perfect and scale their innovations. The Department of Defense has special acquisition flexibility in order to promote and coordinate with small businesses.

The Committee remains concerned that the Department of Defense continues to fail small businesses by not adhering to SBIR law and curtailing the innovative growth that small businesses could provide to fill critical needs in the defense industrial base. The Committee believes that the Department's resistance to permitting SBIR awardees to commercialize their technologies neglects the vital importance of entrepreneurial innovation.

This failure of the Department to capitalize on SBIR entrepreneurial innovation is demonstrated by the repeated failure of the Navy to properly resource the Automated Test and Re-test (ATRT) program, which has produced some of the Navy's most transformative technology, including the AEGIS/ATRT Virtual Twin. As such, the Committee recommendation includes \$37,653,000 for the ATRT program, an increase of \$30,000,000 above the fiscal year 2020 budget request, and rejects the renaming of the program to Automated Test and Analysis. The Committee expects the Secretary of the Navy to fully adhere to SBIR law and the recent directive from the Small Business Administration on the continuation of SBIR-derived research and development and commercialization of SBIR-related technologies.

## BLAST INJURY

The Committee recognizes the need for additional research on what occurs inside the brain after experiencing a blast event. The Committee encourages the Secretary of the Navy, through the Office of Naval Research, to continue to leverage partnerships with academia and the national laboratories to acquire a better understanding of the human cellular response and the interface between humans and their protective equipment during blast impulses. These research efforts may lead to predicting injury following a blast event using future wearable sensor systems and may inform the design of advanced protective equipment to reduce blast injuries.

## MUSCULOSKELETAL INJURIES IN FEMALE SERVICEMEMBERS

The Committee supports efforts to strengthen the resiliency, lethality, and readiness of the military and acknowledges that servicemembers involved in ground-based training and tactical missions are at risk for sustaining high rates of musculoskeletal injuries. The Committee notes that not enough research has been conducted on injury mitigation and performance needs of females who serve in these roles. The Committee urges the Commandant of the Marine Corps to support research into the musculoskeletal issues faced by female Marines serving in infantry and other combat roles.

## COASTAL ENVIRONMENTAL RESEARCH

The Committee understands the importance of the littoral region to Navy operations worldwide and believes that training must replicate the operational and threat environments that submarines and unmanned systems are likely to encounter in these areas. The Committee believes that additional research of the magnetic, electric, and acoustic ambient fields in the littoral regions and the development of predictive techniques to distinguish ships and submarines from naturally occurring background features would be beneficial for littoral operations. The Committee encourages the Secretary of the Navy to conduct additional research in this area.

## ENERGY RESILIENCY

The Committee recognizes the need for additional research to advance Navy efforts to create a more robust energy infrastructure and urges the Secretary of the Navy to collaborate with universities to conduct research on electrical power intermittency, integrating renewable energy sources into the grid, energy storage, improved micro-grids, grid security, local generation of zero-carbon fuels, and the inspection and structural health monitoring of critical energy infrastructure.

## ADVANCED ENERGETICS RESEARCH

The Committee recognizes the requirement for continued investment in advanced energetics research and development to increase the lethality, range, and speed of weapons; develop new capabilities; and expand the domestic energetics workforce. The Committee encourages the Secretary of the Navy to support advanced

energetics research and development efforts and to incorporate successful technologies into advanced weapons systems.

#### LETHALITY AND SURVIVABILITY OF LITTORAL COMBAT SHIPS

The Committee supports Navy efforts to increase both the lethality and the survivability of Littoral Combat Ships but is concerned by the slow pace of improvements. The Committee directs the Secretary of the Navy to submit a report to the congressional defense committees not later than 90 days after the enactment of this Act on the specific lethality and survivability upgrades to be incorporated on Littoral Combat Ships, the timeline of installation of the upgrades, and any resources required.

#### RESEARCH AND WORKFORCE PARTNERSHIPS FOR SUBMARINE AND UNDERSEA VEHICLE PROGRAMS

The Committee recognizes the need for greater partnerships between Navy research labs, academia, and industry. The Committee encourages the Secretary of the Navy to coordinate efforts with its industrial base partners to ensure that funded research projects are relevant to specific engineering and manufacturing needs, as well as defined systems capabilities. Partnerships with academia should focus on specific, well-defined short- and long-term submarine and autonomous undersea vehicle research needs, accelerated technology transition, and should also include a strong workforce development component to help ensure a sustainable industrial base.

#### DIGITAL SECURITY OF ADDITIVE MANUFACTURING

The Committee supports the development of digital protection of additive manufacturing equipment which is critical to securing future additive manufacturing capabilities for operational requirements. Protecting and securing these essential capabilities will ensure future capabilities.

#### RESEARCH, DEVELOPMENT, TEST AND EVALUATION, AIR FORCE

Fiscal year 2019 appropriation .....	\$41,229,475,000
Fiscal year 2020 budget request .....	45,616,122,000
Committee recommendation .....	44,795,456,000
Change from budget request .....	- 820,666,000

The Committee recommends an appropriation of \$44,795,456,000 for Research, Development, Test and Evaluation, Air Force which will provide the following program in fiscal year 2020:

(DOLLARS IN THOUSANDS)

		BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
RESEARCH, DEVELOPMENT, TEST & EVAL, AIR FORCE				
1	BASIC RESEARCH DEFENSE RESEARCH SCIENCES.....	356,107	356,107	---
2	UNIVERSITY RESEARCH INITIATIVES.....	158,859	178,859	+20,000
3	HIGH ENERGY LASER RESEARCH INITIATIVES.....	14,795	14,795	---
	TOTAL, BASIC RESEARCH.....	529,761	549,761	+20,000
4	APPLIED RESEARCH MATERIALS.....	128,851	145,851	+17,000
5	AEROSPACE VEHICLE TECHNOLOGIES.....	147,724	147,724	---
6	HUMAN EFFECTIVENESS APPLIED RESEARCH.....	131,795	131,795	---
7	AEROSPACE PROPULSION.....	198,775	217,775	+19,000
8	AEROSPACE SENSORS.....	202,912	211,912	+9,000
9	SCIENCE AND TECHNOLOGY MANAGEMENT - MAJOR HEADQUARTERS	7,968	7,968	---
12	CONVENTIONAL MUNITIONS.....	142,772	142,772	---
13	DIRECTED ENERGY TECHNOLOGY.....	124,379	124,379	---
14	DOMINANT INFORMATION SCIENCES AND METHODS.....	181,562	186,562	+5,000
15	HIGH ENERGY LASER RESEARCH.....	44,221	44,221	---
16	SPACE TECHNOLOGY.....	124,667	131,667	+7,000
	TOTAL, APPLIED RESEARCH.....	1,435,626	1,492,626	+57,000
17	ADVANCED TECHNOLOGY DEVELOPMENT ADVANCED MATERIALS FOR WEAPON SYSTEMS.....	36,586	49,586	+13,000
18	SUSTAINMENT SCIENCE AND TECHNOLOGY (S&T).....	16,249	16,249	---
19	ADVANCED AEROSPACE SENSORS.....	38,292	38,292	---
20	AEROSPACE TECHNOLOGY DEV/DEMO.....	102,949	177,949	+75,000
21	AEROSPACE PROPULSION AND POWER TECHNOLOGY.....	113,973	138,473	+24,500
22	ELECTRONIC COMBAT TECHNOLOGY.....	48,408	48,408	---
23	ADVANCED SPACECRAFT TECHNOLOGY.....	70,525	70,525	---
24	MAUI SPACE SURVEILLANCE SYSTEM (MSSS).....	11,878	11,878	---
25	HUMAN EFFECTIVENESS ADVANCED TECHNOLOGY DEVELOPMENT...	37,542	37,542	---



(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
26 CONVENTIONAL WEAPONS TECHNOLOGY.....	225,817	225,817	---
27 ADVANCED WEAPONS TECHNOLOGY.....	37,404	37,404	---
28 MANUFACTURING TECHNOLOGY PROGRAM.....	43,116	75,116	+32,000
29 BATTLESPACE KNOWLEDGE DEVELOPMENT & DEMONSTRATION.....	56,414	56,414	---
TOTAL, ADVANCED TECHNOLOGY DEVELOPMENT.....	839,153	983,653	+144,500
31 ADVANCED COMPONENT DEVELOPMENT INTELLIGENCE ADVANCED DEVELOPMENT.....	5,672	5,672	---
32 COMBAT IDENTIFICATION TECHNOLOGY.....	27,085	32,085	+5,000
33 NATO RESEARCH AND DEVELOPMENT.....	4,955	4,955	---
34 IBCM DLM/VAL.....	44,109	30,969	-13,140
36 AIR FORCE WEATHER SERVICES RESEARCH.....	772	772	---
37 ADVANCED ENGINE DEVELOPMENT.....	878,442	878,442	---
38 LONG RANGE STRIKE.....	3,003,899	3,003,899	---
39 DIRECTED ENERGY PROTOTYPING.....	10,000	30,000	+20,000
40 HYPERSONICS PROTOTYPING.....	576,000	576,000	---
41 INTEGRATED AVIONICS PLANNING AND DEVELOPMENT.....	92,600	124,600	+32,000
42 ADVANCED TECHNOLOGY AND SENSORS.....	23,145	23,145	---
43 NATIONAL AIRBORNE OPS CENTER (NADC) RECAP.....	16,669	16,669	---
44 TECHNOLOGY TRANSFER.....	23,614	23,614	---
45 HARD AND DEEPLY BURIED TARGET DEFEAT SYSTEM.....	113,121	113,121	---
46 CYBER RESILIENCY OF WEAPON SYSTEMS-ACS.....	56,325	56,325	---
47 DEPLOYMENT AND DISTRIBUTION ENTERPRISE R&D.....	28,034	28,034	---
48 TECH TRANSITION PROGRAM.....	128,476	144,476	+16,000
49 GROUND BASED STRATEGIC DETERRENT.....	570,373	461,705	-108,668
50 LIGHT ATTACK ARMED RECONNAISSANCE (LAAR) SQUADRONS....	35,000	---	-35,000
51 NEXT GENERATION AIR DOMINANCE.....	1,000,000	500,000	-500,000
52 THREE DIMENSIONAL LONG-RANGE RADAR.....	37,290	37,290	---
53 UNIFIED PLATFORM (UP).....	10,000	10,000	---
54 COMMON DATA LINK EXECUTIVE AGENT (CDL EA).....	36,910	36,910	---
55 CYBERSPACE OPERATIONS FORCES AND FORCE SUPPORT.....	35,000	35,000	---
56 MISSION PARTNER ENVIRONMENTS.....	8,550	8,550	---
57 CYBER OPERATIONS TECHNOLOGY DEVELOPMENT.....	198,864	202,364	+3,500
58 ENABLED CYBER ACTIVITIES.....	16,632	16,632	---
60 CONTRACTING INFORMATION TECHNOLOGY SYSTEM.....	20,830	20,830	---

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
61 NAVSTAR GLOBAL POSITIONING SYSTEM (USER EQUIPMENT) (SPACE).....	329,948	329,948	---
62 EO/IR WEATHER SYSTEMS.....	101,222	101,222	---
63 WEATHER SYSTEM FOLLOW-ON.....	225,660	205,660	-20,000
64 SPACE SITUATION AWARENESS SYSTEMS.....	29,776	29,776	---
65 SPACE SYSTEMS PROTOTYPE TRANSITIONS (SSPT).....	142,045	142,045	---
67 SPACE CONTROL TECHNOLOGY.....	64,231	58,231	-6,000
68 SPACE SECURITY AND DEFENSE PROGRAM.....	56,385	56,385	---
69 PROTECTED TACTICAL ENTERPRISE SERVICE (PTES).....	105,003	105,003	---
70 PROTECTED TACTICAL SERVICE (PTS).....	173,694	168,694	-5,000
71 EVOLVED STRATEGIC SATCOM (ESS).....	172,206	167,206	-5,000
72 SPACE RAPID CAPABILITIES OFFICE.....	33,742	33,742	---
TOTAL, ADVANCED COMPONENT DEVELOPMENT.....	8,436,279	7,819,971	-616,308
73 ENGINEERING & MANUFACTURING DEVELOPMENT FUTURE ADVANCED WEAPON ANALYSIS & PROGRAMS.....	246,200	246,200	---
74 INTEGRATED AVIONICS PLANNING AND DEVELOPMENT.....	67,782	148,782	+81,000
75 NUCLEAR WEAPONS SUPPORT.....	4,406	4,406	---
76 ELECTRONIC WARFARE DEVELOPMENT.....	2,066	2,066	---
77 TACTICAL DATA NETWORKS ENTERPRISE.....	229,631	229,631	---
78 PHYSICAL SECURITY EQUIPMENT.....	9,700	9,700	---
79 SMALL DIAMETER BOMB (SDB).....	31,241	31,241	---
80 AIRBORNE ELECTRONIC ATTACK.....	2	2	---
81 ARMAMENT/ORDNANCE DEVELOPMENT.....	28,043	28,043	---
82 SUBMUNITIONS.....	3,045	3,045	---
83 AGILE COMBAT SUPPORT.....	19,944	19,944	---
84 LIFE SUPPORT SYSTEMS.....	8,624	8,624	---
85 COMBAT TRAINING RANGES.....	37,365	37,365	---
86 F-35 - EMD.....	7,628	7,628	---
87 LONG RANGE STANDOFF WEAPON.....	712,539	712,539	---
88 ICBM FUZE MODERNIZATION.....	161,199	161,199	---
89 JOINT TACTICAL NETWORK CENTER (JTNC).....	2,414	2,414	---
91 OPEN ARCHITECTURE MANAGEMENT.....	30,000	30,000	---
93 KC-46.....	59,561	59,561	---

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
94 ADVANCED PILOT TRAINING.....	348,473	348,473	---
95 COMBAT RESCUE HELICOPTER.....	247,047	192,047	-55,000
98 B-2 DEFENSIVE MANAGEMENT SYSTEM.....	294,400	294,400	---
99 NUCLEAR WEAPONS MODERNIZATION.....	27,564	27,564	---
100 MINUTEMAN SQUADRONS.....	1	---	-1
101 F-15 EPAWSS.....	47,322	47,322	---
102 STAND IN ATTACK WEAPON.....	162,840	162,840	---
103 FULL COMBAT MISSION TRAINING.....	9,797	9,797	---
106 C-32 EXECUTIVE TRANSPORT RECAPITALIZATION.....	9,930	9,930	---
107 PRESIDENTIAL AIRCRAFT REPLACEMENT.....	757,923	757,923	---
108 AUTOMATED TEST SYSTEMS.....	2,787	2,787	---
109 COMBAT SURVIVOR EVADER LOCATOR.....	2,000	2,000	---
110 GPS III FOLLOW ON (GPS IIIF).....	462,875	452,875	-10,000
111 SPACE SITUATION AWARENESS OPERATIONS.....	76,829	71,829	-5,000
112 COUNTERSPACE SYSTEMS.....	29,037	27,037	-2,000
113 WEATHER SYSTEM FOLLOW-ON.....	2,237	2,237	---
114 SPACE SITUATION AWARENESS SYSTEMS.....	412,894	412,894	---
116 ADVANCED EHF MILSATCOM (SPACE).....	117,290	117,290	---
117 POLAR MILSATCOM (SPACE).....	427,400	427,400	---
118 WIDEBAND GLOBAL SATCOM (SPACE).....	1,920	1,920	---
119 SPACE BASED INFRARED SYSTEM (SBIRS) HIGH EMD.....	1	1	---
120 EVOLVED SBIRS (NEXT - GENERATION OPIR).....	1,395,278	1,193,688	-201,590
121 COMMERCIAL SATCOM .....	---	5,000	+5,000
122 NATIONAL SECURITY SPACE LAUNCH EMD.....	432,009	432,009	---
TOTAL, ENGINEERING & MANUFACTURING DEVELOPMENT.....	6,929,244	6,741,653	-187,591

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
RD&E MANAGEMENT SUPPORT			
123 THREAT SIMULATOR DEVELOPMENT.....	59,693	59,693	---
124 MAJOR T&E INVESTMENT.....	181,663	217,663	+36,000
125 RAND PROJECT AIR FORCE.....	35,258	35,258	---
127 INITIAL OPERATIONAL TEST & EVALUATION.....	13,793	13,793	---
128 TEST AND EVALUATION SUPPORT.....	717,895	717,895	---
129 ACQ WORKFORCE- GLOBAL POWER.....	258,667	258,667	---
130 ACQ WORKFORCE- GLOBAL VIG & COMBAT SYS.....	251,992	251,992	---
131 ACQ WORKFORCE- GLOBAL REACH.....	149,191	149,191	---
132 ACQ WORKFORCE- CYBER, NETWORK, & BUS SYS.....	235,360	235,360	---
133 ACQ WORKFORCE- GLOBAL BATTLE MGMT.....	160,196	160,196	---
134 ACQ WORKFORCE- CAPABILITY INTEGRATION.....	220,255	220,255	---
135 ACQ WORKFORCE- ADVANCED PRGM TECHNOLOGY.....	42,392	42,392	---
136 ACQ WORKFORCE- NUCLEAR SYSTEMS.....	133,231	133,231	---
137 MANAGEMENT HQ - R&D.....	5,590	5,590	---
138 FACILITIES RESTORATION & MODERNIZATION - TEST & EVAL..	88,445	88,445	---
139 FACILITIES SUSTAINMENT - TEST AND EVALUATION SUPPORT..	29,424	29,424	---
140 REQUIREMENTS ANALYSIS AND MATURATION.....	62,715	68,715	+6,000
141 MANAGEMENT HQ - T&E.....	5,013	5,013	---
142 ENTERPRISE INFORMATION SERVICES (EIS).....	17,128	17,128	---
143 ACQUISITION AND MANAGEMENT SUPPORT.....	5,913	5,913	---
144 GENERAL SKILL TRAINING.....	1,475	1,475	---
146 INTERNATIONAL ACTIVITIES.....	4,071	4,071	---
147 SPACE TEST AND TRAINING RANGE DEVELOPMENT.....	19,942	14,942	-5,000
148 SPACE AND MISSILE CENTER (SMC) CIVILIAN WORKFORCE.....	167,810	167,810	---
149 SPACE & MISSILE SYSTEMS CENTER - MHA.....	10,170	10,170	---
150 ROCKET SYSTEMS LAUNCH PROGRAM (SPACE).....	13,192	13,192	---
151 SPACE TEST PROGRAM (STP).....	26,097	26,097	---
TOTAL, RD&E MANAGEMENT SUPPORT.....	2,916,571	2,953,571	+37,000

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
OPERATIONAL SYSTEMS DEVELOPMENT			
152 ADVANCED BATTLE MANAGEMENT SYSTEM (ABMS).....	35,611	25,611	-10,000
154 SPECIALIZED UNDERGRADUATE FLIGHT TRAINING.....	2,584	2,584	---
156 DEPLOYMENT & DISTRIBUTION ENTERPRISE R&D.....	903	903	---
157 F-35 C2D2.....	694,455	694,455	---
158 AIR FORCE INTEGRATED MILITARY HUMAN RESOURCES SYSTEM..	40,567	40,567	---
159 ANTI-TAMPER TECHNOLOGY EXECUTIVE AGENCY.....	47,193	47,193	---
160 FOREIGN MATERIEL ACQUISITION AND EXPLOITATION.....	70,083	70,083	---
161 HC/MC-130 RECAP RDT&E.....	17,218	17,218	---
162 NC3 INTEGRATION.....	25,917	25,917	---
164 B-52 SQUADRONS.....	325,974	321,624	-4,350
165 AIR-LAUNCHED CRUISE MISSILE (ALCM).....	10,217	10,217	---
166 B-1B SQUADRONS.....	1,000	1,000	---
167 B-2 SQUADRONS.....	97,276	97,276	---
168 MINUTEMAN SQUADRONS.....	128,961	128,961	---
170 WORLDWIDE JOINT STRATEGIC COMMUNICATIONS.....	18,177	18,177	---
171 INTEGRATED STRATEGIC PLANNING & ANALYSIS NETWORK.....	24,261	24,261	---
172 ICBM REENTRY VEHICLES.....	75,571	65,671	-9,900
174 UH-1N REPLACEMENT PROGRAM.....	170,975	170,975	---
176 MQ-9 UAV.....	154,996	154,996	---
178 A-10 SQUADRONS.....	36,816	36,816	---
179 F-16 SQUADRONS.....	193,013	193,013	---
180 F-15E SQUADRONS.....	336,079	336,079	---
181 MANNED DESTRUCTIVE SUPPRESSION.....	15,521	15,521	---
182 F-22 SQUADRONS.....	496,298	496,298	---
183 F-35 SQUADRONS.....	99,943	99,943	---
184 TACTICAL AIM MISSILES.....	10,314	10,314	---
185 ADVANCED MEDIUM RANGE AIR-TO-AIR MISSILE (AMRAAM).....	55,384	55,384	---
186 COMBAT RESCUE - PARARESCUE.....	281	281	---
187 AF TENCAP.....	21,365	21,365	---
188 PRECISION ATTACK SYSTEMS PROCUREMENT.....	10,696	10,696	---
189 COMPASS CALL.....	15,888	15,888	---
190 AIRCRAFT ENGINE COMPONENT IMPROVEMENT PROGRAM.....	112,505	112,505	---
191 JOINT AIR-TO-SURFACE STANDOFF MISSILE (JASSM).....	78,498	78,498	---

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
192 AIR AND SPACE OPERATIONS CENTER (AOC).....	114,864	114,864	---
193 CONTROL AND REPORTING CENTER (CRC).....	8,109	8,109	---
194 AIRBORNE WARNING AND CONTROL SYSTEM (AWACS).....	67,996	67,996	---
195 TACTICAL AIRBORNE CONTROL SYSTEMS.....	2,462	2,462	---
197 COMBAT AIR INTELLIGENCE SYSTEM ACTIVITIES.....	13,668	13,668	---
198 TACTICAL AIR CONTROL PARTY--MOD.....	6,217	6,217	---
200 DCAPEs.....	19,910	19,910	---
201 NATIONAL TECHNICAL NUCLEAR FORENSICS.....	1,788	1,788	---
202 SEEK EAGLE.....	28,237	28,237	---
203 USAF MODELING AND SIMULATION.....	15,725	15,725	---
204 WARGAMING AND SIMULATION CENTERS.....	4,316	4,316	---
205 BATTLEFIELD ABN COMM NODE (BACN).....	26,946	26,946	---
206 DISTRIBUTED TRAINING AND EXERCISES.....	4,303	4,303	---
207 MISSION PLANNING SYSTEMS.....	71,465	71,465	---
208 TACTICAL DECEPTION.....	7,446	7,446	---
209 OPERATIONAL HG - CYBER.....	7,602	7,602	---
210 DISTRIBUTED CYBER WARFARE OPERATIONS.....	35,178	35,178	---
211 AF DEFENSIVE CYBERSPACE OPERATIONS.....	16,609	16,609	---
212 JOINT CYBER COMMAND AND CONTROL (JCC2).....	11,603	11,603	---
213 UNIFIED PLATFORM (UP).....	84,702	84,702	---
219 GEOBASE.....	2,723	2,723	---
220 NUCLEAR PLANNING AND EXECUTION SYSTEM (NPES).....	44,190	44,190	---
226 AIR FORCE SPACE AND CYBER NON-TRADITIONAL ISR FOR BATTLESPACE AWARENESS.....	3,575	3,575	---
227 E-4B NATIONAL AIRBORNE OPERATIONS CENTER (NAOC).....	70,173	60,173	-10,000
228 MINIMUM ESSENTIAL EMERGENCY COMMUNICATIONS NETWORK....	13,543	13,543	---
229 HIGH FREQUENCY RADIO SYSTEMS.....	15,881	1,000	-14,881
230 INFORMATION SYSTEMS SECURITY PROGRAM.....	27,726	27,726	---
232 GLOBAL FORCE MANAGEMENT - DATA INITIATIVE.....	2,210	2,210	---
234 MULTI DOMAIN COMMAND AND CONTROL (MDC2).....	150,880	100,880	-50,000
235 AIRBORNE SIGINT ENTERPRISE.....	102,667	85,157	-17,510
236 COMMERCIAL ECONOMIC ANALYSIS.....	3,431	3,431	---
239 C2 AIR OPERATIONS SUITE - C2 INFO SERVICES.....	9,313	9,313	---
240 CCMD INTELLIGENCE INFORMATION TECHNOLOGY.....	1,121	1,121	---

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
241 ISR MODERNIZATION & AUTOMATION DVMT (IMAD).....	19,000	3,000	-16,000
242 GLOBAL AIR TRAFFIC MANAGEMENT (GATM).....	4,544	4,544	---
243 WEATHER SERVICE.....	25,461	33,461	+8,000
244 AIR TRAFFIC CONTROL, APPROACH, & LANDING SYSTEM (ATC).....	5,651	8,651	+3,000
245 AERIAL TARGETS.....	7,448	7,448	---
248 SECURITY AND INVESTIGATIVE ACTIVITIES.....	425	425	---
249 ARMS CONTROL IMPLEMENTATION.....	54,546	41,546	-13,000
250 DEFENSE JOINT COUNTERINTELLIGENCE ACTIVITIES.....	6,858	6,858	---
252 INTEGRATED BROADCAST SERVICE.....	8,728	8,728	---
253 DRAGON U-2.....	38,939	38,939	---
255 AIRBORNE RECONNAISSANCE SYSTEMS.....	122,909	137,909	+15,000
256 MANNED RECONNAISSANCE SYSTEMS.....	11,787	11,787	---
257 DISTRIBUTED COMMON GROUND/SURFACE SYSTEMS.....	25,009	25,009	---
258 RQ-4 UAV.....	191,733	191,733	---
259 NETWORK-CENTRIC COLLABORATIVE TARGET (TIARA).....	10,757	10,757	---
260 NATO AGS.....	32,567	32,567	---
261 SUPPORT TO DCGS ENTERPRISE.....	37,774	37,774	---
262 INTERNATIONAL INTELLIGENCE TECHNOLOGY AND ARCHITECTURES.....	13,515	13,515	---
263 RAPID CYBER ACQUISITION.....	4,383	4,383	---
264 PERSONNEL RECOVERY COMMAND & CTRL (PRC2).....	2,133	2,133	---
265 INTELLIGENCE MISSION DATA (IMD).....	8,614	8,614	---
266 C-130 AIRLIFT SQUADRON.....	140,425	140,425	---
267 C-5 AIRLIFT SQUADRONS.....	10,223	10,223	---
268 C-17 AIRCRAFT.....	25,101	21,101	-4,000
269 C-130J PROGRAM.....	8,640	8,640	---
270 LARGE AIRCRAFT IR COUNTERMEASURES (LAIRCM).....	5,424	5,424	---
272 KC-10S.....	20	20	---
274 CV-22.....	17,906	17,906	---
276 SPECIAL TACTICS / COMBAT CONTROL.....	3,629	3,629	---
277 DEPOT MAINTENANCE (NON-IF).....	1,890	1,890	---
278 MAINTENANCE, REPAIR & OVERHAUL SYSTEM.....	10,311	10,311	---
279 LOGISTICS INFORMATION TECHNOLOGY (LOGIT).....	16,065	16,065	---
280 SUPPORT SYSTEMS DEVELOPMENT.....	539	539	---

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
281 OTHER FLIGHT TRAINING.....	2,057	2,057	---
282 OTHER PERSONNEL ACTIVITIES.....	10	10	---
283 JOINT PERSONNEL RECOVERY AGENCY.....	2,060	2,060	---
284 CIVILIAN COMPENSATION PROGRAM.....	3,809	3,809	---
285 PERSONNEL ADMINISTRATION.....	6,476	6,476	---
286 AIR FORCE STUDIES AND ANALYSIS AGENCY.....	1,443	1,443	---
287 FINANCIAL MANAGEMENT INFORMATION SYSTEMS DEVELOPMENT..	9,323	9,323	---
288 DEFENSE ENTERPRISE ACNTNG AND MGT SYS (DEAMS).....	46,789	46,789	---
289 GLOBAL SENSOR INTEGRATED ON NETWORK (GSIN).....	3,647	3,647	---
290 SERVICE SUPPORT TO STRATCOM - SPACE ACTIVITIES.....	988	988	---
291 SERVICE SUPPORT TO SPACECOM ACTIVITIES.....	11,863	11,863	---
293 FAMILY OF ADVANCED BLOS TERMINALS (FAB-T).....	197,388	192,388	-5,000
294 SATELLITE CONTROL NETWORK (SPACE).....	61,891	61,891	---
297 SPACE AND MISSILE TEST AND EVALUATION CENTER.....	4,566	4,566	---
298 SPACE INNOVATION, INTEGRATION AND RAPID TECHNOLOGY DEVELOPMENT.....	43,292	38,292	-5,000
300 SPACELIFT RANGE SYSTEM (SPACE).....	10,837	15,837	+5,000
301 GPS III SPACE SEGMENT.....	42,440	42,440	---
302 SPACE SUPERIORITY INTELLIGENCE.....	14,428	14,428	---
303 JSPOC MISSION SYSTEM.....	72,762	75,762	+3,000
304 NATIONAL SPACE DEFENSE CENTER.....	2,653	2,653	---
306 BALLISTIC MISSILE DEFENSE RADARS.....	15,881	15,881	---
308 NUDET DETECTION SYSTEM (SPACE).....	49,300	49,300	---
309 SPACE SITUATION AWARENESS OPERATIONS.....	17,834	17,834	---
310 GLOBAL POSITIONING SYSTEM III - OPERATIONAL CONTROL SEGMENT.....	445,302	445,302	---
311 ENTERPRISE GROUND SERVICES.....	138,870	138,870	---
TOTAL, OPERATIONAL SYSTEMS DEVELOPMENT.....	6,499,982	6,374,341	-125,641
9999 CLASSIFIED PROGRAMS.....	18,029,506	17,879,880	-149,626
TOTAL, RESEARCH, DEVELOPMENT, TEST & EVAL, AIR FORCE	45,616,122	44,795,456	-820,666
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EXPLANATION OF PROJECT LEVEL ADJUSTMENTS  
[In thousands of dollars]

R-1	Budget Request	Committee Recommended	Change from Request
<b>2 UNIVERSITY RESEARCH INITIATIVES</b>	<b>158,859</b>	<b>178,859</b>	<b>20,000</b>
Program increase		20,000	
<b>4 MATERIALS</b>	<b>128,851</b>	<b>145,851</b>	<b>17,000</b>
Program increase - molybdenum silicon boron research		3,000	
Program increase - coatings for corrosion control		5,000	
Program increase - high performance materials		4,000	
Program increase - deployable passive cooling		5,000	
<b>7 AEROSPACE PROPULSION</b>	<b>198,775</b>	<b>217,775</b>	<b>19,000</b>
Program increase - advanced turbine technologies		2,000	
Program increase - next generation liquid propulsion		5,000	
Program increase - next generation hall thruster		5,000	
Program increase - thermal management technology		7,000	
<b>8 AEROSPACE SENSORS</b>	<b>202,912</b>	<b>211,912</b>	<b>9,000</b>
Program increase - exploitation detection		9,000	
<b>14 DOMINANT INFORMATION SCIENCES AND METHODS</b>	<b>181,562</b>	<b>186,562</b>	<b>5,000</b>
Program increase		5,000	
<b>16 SPACE TECHNOLOGY</b>	<b>124,667</b>	<b>131,667</b>	<b>7,000</b>
Program increase - thin-film photovoltaic energy		7,000	
<b>17 ADVANCED MATERIALS FOR WEAPON SYSTEMS</b>	<b>36,586</b>	<b>49,586</b>	<b>13,000</b>
Program increase - metals affordability research		10,000	
Program increase - composite materials manufacturing processes		3,000	
<b>20 AEROSPACE TECHNOLOGY DEV/DEMO</b>	<b>102,949</b>	<b>177,949</b>	<b>75,000</b>
Unfunded requirement - Agility Prime		25,000	
Low cost attributable aircraft technology		50,000	
<b>21 AEROSPACE PROPULSION &amp; POWER TECHNOLOGY</b>	<b>113,973</b>	<b>138,473</b>	<b>24,500</b>
Program increase - low spool generator capabilities		5,000	
Program increase - advanced turbine gas generator		17,000	
Program increase - chemical apogee engines		2,500	
<b>28 MANUFACTURING TECHNOLOGY PROGRAM</b>	<b>43,116</b>	<b>75,116</b>	<b>32,000</b>
Program increase - thermal protection for hypersonic vehicles		10,000	
Program increase - modeling technology for small turbine engines		4,000	
Program increase - manufacturing technology for reverse engineering		5,000	
Program increase - solid state battery research		3,000	
Program increase - agile manufacturing initiatives		10,000	
<b>34 ICBM DEM/VAL</b>	<b>44,109</b>	<b>30,969</b>	<b>-13,140</b>
Excess to need		-13,140	

R-1	Budget Request	Committee Recommended	Change from Request
39 DIRECTED ENERGY PROTOTYPING	10,000	30,000	20,000
Unfunded requirement		20,000	
41 PNT RESILIENCY, MODS, AND IMPROVEMENTS	92,600	124,600	32,000
Unfunded requirement		32,000	
48 TECH TRANSITION PROGRAM	128,476	144,476	16,000
Program increase - competitively awarded technology transition initiatives		10,000	
Program increase - advanced repair and qualification processes		6,000	
49 GROUND BASED STRATEGIC DETERRENT	570,373	461,705	-108,668
Engineering and manufacturing development phase funds excess to need		-108,668	
50 LIGHT ATTACK ARMED RECONNAISSANCE	35,000	0	-35,000
Unjustified request for further experimentation		-35,000	
51 NEXT GENERATION AIR DOMINANCE	1,000,000	500,000	-500,000
Classified adjustment		-500,000	
57 CYBER OPERATIONS TECHNOLOGY DEVELOPMENT	198,864	202,364	3,500
Program increase - cloud communication validation pilot		3,500	
63 WEATHER SYSTEM FOLLOW-ON	225,660	205,660	-20,000
Ahead of need		-20,000	
67 SPACE CONTROL TECHNOLOGY	64,231	58,231	-6,000
Underexecution		-6,000	
70 PROTECTED TACTICAL SERVICE (PTS)	173,694	168,694	-5,000
Unjustified increase		-5,000	
71 EVOLVED STRATEGIC SATCOM (ESS)	172,206	167,206	-5,000
Unjustified increase		-5,000	
74 PNT RESILIENCY, MODS, AND IMPROVEMENTS	67,782	148,782	81,000
Unfunded requirement		81,000	
95 COMBAT RESCUE HELICOPTER	247,047	192,047	-55,000
Engineering and manufacturing development phase funds excess to need		-15,000	
Modernization funding poorly justified		-40,000	
100 MINUTEMAN SQUADRONS	1	0	-1
Unjustified request		-1	
110 GPS III FOLLOW-ON (GPS IIIF)	462,875	452,875	-10,000
Excess to need		-10,000	
111 SPACE SITUATION AWARENESS OPERATIONS	76,829	71,829	-5,000
Underexecution		-5,000	
112 COUNTERSPACE SYSTEMS	29,037	27,037	-2,000
Underexecution		-2,000	

R-1	Budget Request	Committee Recommended	Change from Request
<b>120 NEXT-GENERATION OPIR</b>	<b>1,395,278</b>	<b>1,193,688</b>	<b>-201,590</b>
Unobligated balance		-13,390	
Excess to need		-188,200	
<b>121 COMMERCIAL SATCOM INTEGRATION</b>	<b>0</b>	<b>5,000</b>	<b>5,000</b>
Program increase - commercial satellite communications		5,000	
<b>124 MAJOR T&amp;E INVESTMENT</b>	<b>181,663</b>	<b>217,663</b>	<b>36,000</b>
Unfunded requirement - space test infrastructure		36,000	
<b>140 REQUIREMENTS ANALYSIS AND MATURATION</b>	<b>62,715</b>	<b>68,715</b>	<b>6,000</b>
Unfunded requirement - development planning		2,000	
Unfunded requirement - integrated simulation and analysis		4,000	
<b>147 SPACE TEST AND TRAINING RANGE DEVELOPMENT</b>	<b>19,942</b>	<b>14,942</b>	<b>-5,000</b>
Underexecution		-5,000	
<b>152 ADVANCED BATTLE MANAGEMENT SYSTEM</b>	<b>35,611</b>	<b>25,611</b>	<b>-10,000</b>
Lack of clear execution plan		-10,000	
<b>164 B-52 SQUADRONS</b>	<b>325,974</b>	<b>321,624</b>	<b>-4,350</b>
Advanced target pod contract delay		-4,350	
<b>172 ICBM REENTRY VEHICLES</b>	<b>75,571</b>	<b>65,671</b>	<b>-9,900</b>
Program delay		-9,900	
<b>227 E-4B NAOC</b>	<b>70,173</b>	<b>60,173</b>	<b>-10,000</b>
Survivable SHF change in acquisition strategy		-10,000	
<b>229 HF RADIO SYSTEMS</b>	<b>15,881</b>	<b>1,000</b>	<b>-14,881</b>
Change in acquisition strategy		-14,881	
<b>234 MULTI-DOMAIN COMMAND AND CONTROL (MDC2)</b>	<b>150,880</b>	<b>100,880</b>	<b>-50,000</b>
Unjustified growth		-50,000	
<b>235 AIRBORNE SIGINT ENTERPRISE</b>	<b>102,667</b>	<b>85,157</b>	<b>-17,510</b>
Follow-on SIGINT sensors - unclear requirement and acquisition strategy		-17,510	
<b>241 ISR MODERNIZATION &amp; AUTOMATION DEVELOPMENT</b>	<b>19,000</b>	<b>3,000</b>	<b>-16,000</b>
Core technology - poor justification		-16,000	
<b>243 WEATHER SERVICE</b>	<b>25,461</b>	<b>33,461</b>	<b>8,000</b>
Program increase - enhanced weather prediction		3,000	
Program increase - commercial weather data pilot		5,000	
<b>244 ATCALs</b>	<b>5,651</b>	<b>8,651</b>	<b>3,000</b>
Program increase - inflight radars		3,000	
<b>249 ARMS CONTROL IMPLEMENTATION</b>	<b>54,546</b>	<b>41,546</b>	<b>-13,000</b>
Open Skies recap delays		-13,000	

R-1	Budget Request	Committee Recommended	Change from Request
255 AIRBORNE RECONNAISSANCE SYSTEMS	122,909	137,909	15,000
Program increase - wide area motion imagery		15,000	
268 C-17 SQUADRONS	25,101	21,101	-4,000
BLOS excess to need		-4,000	
293 FAB-T	197,388	192,388	-5,000
Underexecution		-5,000	
SPACE INNOVATION, INTEGRATION AND RAPID			
298 TECHNOLOGY DEVELOPMENT	43,292	38,292	-5,000
Underexecution		-5,000	
300 SPACELIFT RANGE SYSTEM (SPACE)	10,837	15,837	5,000
Space launch services and capability		5,000	
303 JSPOC MISSION SYSTEM	72,762	75,762	3,000
Unobligated balance		-2,000	
Program increase - commercial capability		5,000	
999 CLASSIFIED PROGRAMS	18,029,506	17,879,880	-149,626
Classified adjustment		-149,626	

## HYPERSONIC WEAPON PROTOTYPING

The Committee recommendation fully funds the Air Force request for hypersonic weapon system research and development, including the \$576,000,000 requested for two major prototyping efforts, the Air-Launched Rapid Response Weapon (ARRW) and the Hypersonic Conventional Strike Weapon (HCSW). However, the Committee is concerned by the continuing budget gap for both efforts, particularly the HCSW. The fiscal year 2020 budget request shows a significant funding shortfall for HCSW compared to the cost estimates that have been communicated to the Committee, and there is no funding programmed to continue HCSW in fiscal year 2021 and thereafter despite the Air Force goal of reaching an early operational capability within fiscal year 2022. The Committee finds that since an updated non-advocate cost assessment was adopted as the internal baseline funding requirement in March 2018, and both the ARRW and HCSW efforts were designated as Section 804 rapid prototyping programs in May 2018, ample time has allowed the Air Force to fully fund both efforts within its budget plans. The Committee is disappointed that the Air Force has failed to do so and believes that this budgetary disconnect communicates uncertainty about the Air Force's intention to see both efforts through to completion.

The Committee also believes that the Air Force needs to provide better information to the Committee about its efforts to transition each effort, assuming that prototyping is successful, to production and fielding. The Committee directs the Secretary of the Air Force to submit a report to the congressional defense committees not later than 90 days after the enactment of this Act that includes the following: an updated funding baseline for both the ARRW and HCSW rapid prototyping programs along with a plan to correct any budget shortfalls; an estimate of costs to field an early operating capability for both systems that are not included within the rapid prototyping effort; a notional schedule and cost estimate for the first five production lots; an assessment of current manufacturing readiness levels for both efforts and cost estimates to achieve the levels necessary to support initial production; and a comparative analysis of the justifications for producing and fielding multiple air-launched hypersonic weapons of comparable operational range versus down-selecting to a single type of weapon. This report may be submitted with a classified annex.

## MANUFACTURING TECHNOLOGY FOR HYPERSONIC AND SPACE SYSTEMS

The Committee understands that the application of thermal protection systems is critical to hypersonic and space systems. As the Air Force continues to invest in the development of these essential capabilities, it must also develop the production processes required to manufacture thermal protection systems. The Committee encourages the Secretary of the Air Force to continue the development and transition of this technology to industry to support the future production of hypersonic and space systems.

## PROPULSION FOR REUSABLE HYPERSONIC SYSTEMS

The Committee understands that the Air Force continues to research technology to support the development of reusable hypersonic systems. As this technology continues to mature, the Committee encourages the Secretary of the Air Force to conduct research into reusable hypersonic propulsion technologies including high mach turbines.

## REMOTELY CONTROLLED AIRCRAFT POSITIONING SYSTEMS

The Committee understands that the Air Force is conducting research, development, testing and evaluation of remotely controlled aircraft positioning systems, including systems powered by alternative energy. The Committee supports this research and encourages the Secretary of the Air Force to continue efforts to prototype and test such systems.

## REFRACTORY METAL ALLOY RESEARCH

The Committee understands that refractory metal alloys have the potential to support development of a new generation of jet engines. The Committee encourages the Secretary of the Air Force to continue research into refractory metal alloys with higher stress and temperature tolerances, as well as self-healing properties.

## COATINGS FOR CORROSION CONTROL

The Committee understands that improved coating technologies have the potential to minimize corrosion, decrease aerodynamic drag, and reduce environmental and occupational hazards. In addition, improved coatings potentially can reduce life-cycle costs and improve aircraft availability. The Committee encourages the Secretary of the Air Force to continue research into coating technologies that will reduce aircraft ownership costs and increase readiness.

## LOW COST ATTRITABLE AIRCRAFT TECHNOLOGY

The Committee recommendation includes an additional \$50,000,000 to further develop Low Cost Attritable Aircraft Technology (LCAAT). The Committee understands that the Air Force is undergoing flight tests with a demonstrator air vehicle, the XQ-58A, to evaluate system functionality, aerodynamic performance, and launch and recovery systems. The Committee believes that LCAAT has the potential for game-changing capability and capacity across both permissive and contested environments while avoiding the high cost, long development timelines, and inflexible production lines of traditional aircraft programs. The Committee provides the additional funding for the further development, demonstration, prototyping, and integration of LCAAT air vehicles, payloads, launch and recovery concepts, datalinks, human-machine interface enhancements, manned-unmanned teaming, sustainment systems, and other LCAAT-related efforts. The Committee directs the Secretary of the Air Force to submit a spend plan to the congressional defense committees for the LCAAT funding in the budget request and the additional funding provided by the Committee not later than 90 days after the enactment of this Act.

## THIN FILM PHOTOVOLTAIC MATERIALS

The Committee is aware of advancements in materials research for photovoltaic solar cells and therefore the recommendation includes an additional \$7,000,000 for thin-film photovoltaic technologies. The Committee encourages the Commander of the Air Force Research Laboratory to pursue research areas suitable for space, autonomous vehicles, and soldier power applications that will deliver improved specific power, resistance to thermal cycling and mechanical reliability. The Air Force Research Laboratory should consider expanding its relationships through a competitive process to broaden the types of materials and devices under investigation while leveraging existing expertise in terrestrial thin film photovoltaic development.

## NEXT GENERATION OVERHEAD PERSISTENT INFRARED PROGRAM

The fiscal year 2020 budget request for the Next Generation Overhead Persistent Infrared (OPIR) program is \$1,395,278,000, an increase of \$752,152,000 above the fiscal year 2019 enacted level. The Committee appreciates the importance of the OPIR mission to national security, and the urgent need to field a more resilient capability against growing space threats. However, the Committee is concerned with the rapid budget growth and the Air Force strategy of relying on significant reprogramming requests to keep the program on schedule. Further, the Committee questions whether the use of authorities for middle tier acquisition for rapid prototyping and rapid fielding under Section 804 of the National Defense Authorization Act for Fiscal Year 2016 is appropriate for this program, and whether the Department of Defense's oversight and management controls are adequate given the use of the middle tier acquisition authority. Therefore, the Committee recommendation includes \$1,193,688,000 for the Next Generation Overhead Persistent Infrared program, a reduction of \$201,590,000.

Further, the Committee notes that the Department of Defense lacks a comprehensive long-term architecture for overhead persistent infrared which integrates the requirements and capabilities across the military user community, to include integration of missile defense and hypersonic defense capabilities. The Committee views the current Next Generation Overhead Persistent Infrared Block 0 program as an important interim step to a currently undefined, but much needed, future comprehensive OPIR architecture. Therefore, the bill includes a legislative provision requiring the Space Development Agency and the Air Force to define the process by which the organizations will coordinate to develop a unified and integrated space architecture, to clarify roles and responsibilities in developing and demonstrating prototype capabilities and to transition the future comprehensive OPIR architectures to programs of record.

## SPACE COMMON OPERATING PICTURE

The National Space Defense Center, and its predecessor organizations, have been struggling for over a decade to develop a system to provide a common operating picture that integrates the space situational awareness sensors across the intelligence community

and the Department of Defense. The Committee understands that there are commercial solutions available that could potentially provide a capability to meet some of these requirements in the near term. Therefore, the Committee provides an increase of \$5,000,000 within the Joint Space Operations Center Mission System budget request for commercial capability to evaluate potential commercial solutions to provide a common operating picture.

#### NATIONAL SECURITY SPACE LAUNCH

Assured access to space is the foundation of a strong national security space program. The Committee commends the Air Force for its impressive track record of successful launches over the past 15 years and reliably delivering critical capabilities to orbit. While the Air Force initially resisted introducing competition for national security launch, the Committee commends the Air Force for now embracing competition and facilitating progress toward eliminating its reliance on Russian engines. The Committee notes that the national security space launch program is going through a critical transition as it phases out legacy launch systems and considers a variety of new and upgraded rockets to meet the full slate of national security mission requirements.

However, the Committee is concerned with the significant level of technical and programmatic risk this transition entails, including risk of a potential gap if any of the new, unproven rockets develop problems or experience setbacks. Therefore, the Committee recommendation fully funds the request for the National Security Space Launch program and urges the Secretary of the Air Force to proceed expeditiously with its strategy in order to minimize the risk of a gap in assured access to space.

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

Fiscal year 2019 appropriation .....	\$23,691,836,000
Fiscal year 2020 budget request .....	24,346,953,000
Committee recommendation .....	24,502,308,000
Change from budget request .....	+155,355,000

The Committee recommends an appropriation of \$24,502,308,000 for Research, Development, Test and Evaluation, Defense-Wide which will provide the following program in fiscal year 2020:



(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
RESEARCH, DEVELOPMENT, TEST & EVAL, DEFENSE-WIDE			
1 BASIC RESEARCH			
DTRA UNIVERSITY STRATEGIC PARTNERSHIP BASIC RESEARCH..	26,000	26,000	---
2 DEFENSE RESEARCH SCIENCES.....	432,284	432,284	---
3 BASIC RESEARCH INITIATIVES.....	48,874	61,374	+12,500
4 BASIC OPERATIONAL MEDICAL RESEARCH SCIENCE.....	54,122	54,122	---
5 NATIONAL DEFENSE EDUCATION PROGRAM.....	92,074	142,074	+50,000
6 HISTORICALLY BLACK COLLEGES & UNIV (HBCU).....	30,708	40,708	+10,000
7 CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM.....	45,238	45,238	---
TOTAL, BASIC RESEARCH.....	729,300	801,800	+72,500
APPLIED RESEARCH			
8 JOINT MUNITIONS TECHNOLOGY.....	19,306	19,306	---
9 BIOMEDICAL TECHNOLOGY.....	97,771	97,771	---
11 LINCOLN LABORATORY RESEARCH PROGRAM.....	52,317	52,317	---
12 APPLIED RESEARCH FOR ADVANCEMENT S&T PRIORITIES.....	62,200	53,400	-8,800
13 INFORMATION AND COMMUNICATIONS TECHNOLOGY.....	442,556	437,556	-5,000
14 BIOLOGICAL WARFARE DEFENSE.....	34,588	34,588	---
15 CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM.....	202,587	212,957	+10,370
16 CYBER SECURITY RESEARCH.....	15,118	25,118	+10,000
17 TACTICAL TECHNOLOGY.....	337,602	337,602	---
18 MATERIALS AND BIOLOGICAL TECHNOLOGY.....	223,976	223,976	---
19 ELECTRONICS TECHNOLOGY.....	332,192	326,192	-6,000
20 WEAPONS OF MASS DESTRUCTION DEFEAT TECHNOLOGIES.....	179,096	179,096	---
21 SOFTWARE ENGINEERING INSTITUTE.....	9,580	9,580	---
22 SPECIAL OPERATIONS TECHNOLOGY DEVELOPMENT.....	40,569	35,569	-5,000
TOTAL, APPLIED RESEARCH.....	2,049,458	2,045,028	-4,430

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
23 ADVANCED TECHNOLOGY DEVELOPMENT JOINT MUNITIONS ADVANCED TECH INSENSITIVE MUNITIONS AD	25,779	25,779	---
24 SO/LIC ADVANCED DEVELOPMENT.....	5,000	5,000	---
25 COMBATING TERRORISM TECHNOLOGY SUPPORT.....	70,517	75,517	+5,000
26 FOREIGN COMPARATIVE TESTING.....	24,970	24,970	---
28 COUNTERPROLIFERATION INITIATIVES--PROLIF PREV & DEFEAT	340,065	338,575	-1,490
29 ADVANCED CONCEPTS AND PERFORMANCE ASSESSMENT.....	14,208	19,208	+5,000
30 WEAPONS TECHNOLOGY.....	10,000	10,000	---
31 ADVANCED RESEARCH.....	20,674	27,674	+7,000
32 JOINT DOD-DOE MUNITIONS TECHNOLOGY DEVELOPMENT.....	18,773	18,773	---
33 ADVANCED AEROSPACE SYSTEMS.....	279,741	279,741	---
34 SPACE PROGRAMS AND TECHNOLOGY.....	202,606	190,306	-12,300
35 ANALYTIC ASSESSMENTS.....	19,429	18,429	-1,000
36 ADVANCED INNOVATIVE ANALYSIS AND CONCEPTS.....	37,645	37,645	---
37 ADVANCED INNOVATIVE ANALYSIS AND CONCEPTS - MHA.....	14,668	14,668	---
38 COMMON KILL VEHICLE TECHNOLOGY.....	13,600	13,600	---
40 DEFENSE INNOVATION UNIT .....	29,398	29,398	---
41 TECHNOLOGY INNOVATION.....	60,000	33,729	-26,271
42 CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM - ADVANCED DEV	172,486	175,486	+3,000
43 RETRACT LARCH.....	159,688	159,688	---
44 JOINT ELECTRONIC ADVANCED TECHNOLOGY.....	12,063	12,063	---
45 JOINT CAPABILITY TECHNOLOGY DEMONSTRATIONS.....	107,359	107,359	---
46 NETWORKED COMMUNICATIONS CAPABILITIES.....	2,858	2,858	---
47 DEFENSE-WIDE MANUFACTURING SCIENCE AND TECHNOLOGY PROG	96,397	156,397	+60,000
48 MANUFACTURING TECHNOLOGY PROGRAM.....	42,834	52,834	+10,000
49 EMERGING CAPABILITIES TECHNOLOGY DEVELOPMENT.....	80,911	83,411	+2,500
50 GENERIC LOGISTICS R&D TECHNOLOGY DEMONSTRATIONS.....	10,817	15,817	+5,000
51 STRATEGIC ENVIRONMENTAL RESEARCH PROGRAM.....	66,157	66,157	---
52 MICROELECTRONIC TECHNOLOGY DEVELOPMENT AND SUPPORT....	171,771	171,771	---

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
53 JOINT WARFIGHTING PROGRAM.....	4,846	4,846	---
54 ADVANCED ELECTRONICS TECHNOLOGIES.....	128,616	128,616	---
55 COMMAND, CONTROL AND COMMUNICATIONS SYSTEMS.....	232,134	232,134	---
56 NETWORK-CENTRIC WARFARE TECHNOLOGY.....	512,424	507,424	-5,000
57 SENSOR TECHNOLOGY.....	163,903	163,903	---
58 DISTRIBUTED LEARNING ADVANCED TECHNOLOGY DEVELOPMENT..	13,723	22,446	+8,723
59 SOFTWARE ENGINEERING INSTITUTE.....	15,111	15,111	---
60 QUICK REACTION SPECIAL PROJECTS.....	47,147	47,147	---
61 ENGINEERING SCIENCE AND TECHNOLOGY.....	19,376	19,376	---
62 HIGH ENERGY LASER ADVANCED TECHNOLOGY PROGRAM.....	85,223	76,223	-9,000
63 TEST & EVALUATION SCIENCE & TECHNOLOGY.....	175,574	175,574	---
64 NATIONAL SECURITY INNOVATION NETWORK.....	25,000	25,000	---
65 OPERATIONAL ENERGY CAPABILITY IMPROVEMENT.....	70,536	58,900	-11,636
66 CWMD SYSTEMS.....	28,907	28,907	---
68 SPECIAL OPERATIONS ADVANCED TECHNOLOGY DEVELOPMENT....	89,154	93,404	+4,250
69 SPACE SCIENCE AND TECHNOLOGY RESEARCH AND DEVELOPMENT..	20,000	20,000	---
TOTAL, ADVANCED TECHNOLOGY DEVELOPMENT.....	3,742,088	3,785,864	+43,776
DEMONSTRATION & VALIDATION			
70 NUCLEAR AND CONVENTIONAL PHYSICAL SECURITY EQUIPMENT..	42,695	42,695	---
71 WALKOFF.....	92,791	92,791	---
72 ACQUISITION ENTERPRISE DATA AND INFORMATION SERVICES..	5,659	5,659	---
73 ENVIRONMENTAL SECURITY TECHNICAL CERTIFICATION PROGRAM	66,572	66,572	---
74 BALLISTIC MISSILE DEFENSE TERMINAL DEFENSE SEGMENT....	302,761	302,761	---
75 BALLISTIC MISSILE DEFENSE MIDCOURSE DEFENSE SEGMENT...	1,156,506	969,100	-187,406
76 CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM.....	83,662	83,662	---
77 BALLISTIC MISSILE DEFENSE SENSORS.....	283,487	283,487	---
78 BALLISTIC MISSILE DEFENSE ENABLING PROGRAMS.....	571,507	571,507	---
79 SPECIAL PROGRAMS - MDA.....	377,098	512,098	+135,000
80 AEGIS BMD.....	727,479	699,479	-28,000
81 BALLISTIC MISSILE DEFENSE COMMAND AND CONTROL, BATTLE MANAGEMENT.....	564,206	560,756	-3,450

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
82 BALLISTIC MISSILE DEFENSE JOINT WARFIGHTER SUPPORT....	51,532	51,532	---
83 BALLISTIC MISSILE DEFENSE INTERGRATION AND OPERATIONS 83 CENTER (MDIOC).....	56,161	56,161	---
84 REGARDING TRENCH.....	22,424	22,424	---
85 SEA BASED X-BAND RADAR (SBX).....	128,156	128,156	---
86 ISRAELI COOPERATIVE PROGRAMS.....	300,000	300,000	---
87 BALLISTIC MISSILE DEFENSE TEST.....	395,924	392,324	-3,600
88 BALLISTIC MISSILE DEFENSE TARGETS.....	554,171	541,771	-12,400
89 HUMANITARIAN DEMINING.....	10,820	14,700	+3,880
90 COALITION WARFARE.....	11,316	11,316	---
91 DEPARTMENT OF DEFENSE CORROSION PROGRAM.....	3,365	5,365	+2,000
92 TECHNOLOGY MATURATION INITIATIVES.....	303,458	271,358	-32,100
93 MISSILE DEFEAT PROJECT.....	17,816	10,000	-7,816
95 HYPERSONIC DEFENSE.....	157,425	159,325	+1,900
96 ADVANCED INNOVATIVE TECHNOLOGIES.....	1,312,735	1,138,365	-174,370
97 TRUSTED AND ASSURED MICROELECTRONICS.....	542,421	547,421	+5,000
98 RAPID PROTOTYPING PROGRAM.....	100,957	100,957	---
99 DEFENSE INNOVATION UNIT (DIU) PROTOTYPING.....	92,000	17,000	-75,000
100 DOD UNMANNED AIRCRAFT SYSTEM (UAS) COMMON DEVELOPMENT.	3,021	3,021	---
103 PACIFIC DISCRIMINATING RADAR.....	6,711	6,711	---
102 HOMELAND DEFENSE RADAR-HAWAII.....	274,714	274,714	---
104 WARGAMING AND SUPPORT FOR STRATEGIC ANALYSIS (SSA)....	3,751	3,751	---
105 DEFENSE RAPID INNOVATION PROGRAM.....	14,021	---	-14,021
107 JOINT C5 CAPABILITY DEVELOPMENT, INTEGRATION AND INTEROPERABILITY.....	20,062	20,062	---
108 LONG RANGE DISCRIMINATION RADAR.....	136,423	136,423	---
109 IMPROVED HOMELAND DEFENSE INTERCEPTORS.....	412,363	412,363	---
110 BMD TERMINAL DEFENSE SEGMENT TEST.....	25,137	25,137	---
111 AEGIS BMD TEST.....	169,822	150,722	-19,100
112 BALLISTIC MISSILE DEFENSE SENSOR TEST.....	105,530	94,830	-10,700
113 LAND-BASED SM-3 (LBSM3).....	38,352	38,352	---

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
BALLISTIC MISSILE DEFENSE MIDCOURSE DEFENSE SEGMENT			
115 TEST.....	98,139	96,439	-1,700
117 ENTERPRISE INFORMATION TECHNOLOGY SYSTEMS.....	1,600	1,600	---
118 JOINT ELECTROMAGNETIC TECHNOLOGY (JET) PROGRAM.....	3,191	3,191	---
119 CYBER SECURITY INITIATIVE.....	1,138	6,138	+5,000
120 SPACE TECHNOLOGY DEVELOPMENT AND PROTOTYPING.....	85,000	35,000	-50,000
121 SPACE TRACKING AND SURVEILLANCE SYSTEM.....	35,849	35,849	---
122 BALLISTIC MISSILE DEFENSE SYSEM SPACE PROGRAMS.....	27,565	135,565	+108,000
TOTAL, DEMONSTRATION & VALIDATION.....	9,797,493	9,438,610	-358,883
ENGINEERING & MANUFACTURING DEVELOPMENT			
123 NUCLEAR AND CONVENTIONAL PHYSICAL SECURITY EQUIPMENT..	11,276	11,276	---
124 PROMPT GLOBAL STRIKE CAPABILITY DEVELOPMENT.....	107,000	---	-107,000
124A HYPERSONICS CAPABILITY DEVELOPMENT.....	---	85,000	+85,000
125 CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM.....	384,047	374,047	-10,000
126 JOINT TACTICAL INFORMATION DISTRIBUTION SYSTEM (JTIDS)	40,102	45,602	+5,500
127 WEAPONS OF MASS DESTRUCTION DEFEAT CAPABILITIES.....	13,100	13,100	---
128 INFORMATION TECHNOLOGY DEVELOPMENT.....	3,070	3,070	---
129 HOMELAND PERSONNEL SECURITY INITIATIVE.....	7,295	7,295	---
130 DEFENSE EXPORTABILITY PROGRAM.....	17,615	7,615	-10,000
131 OUSD(C) IT DEVELOPMENT INITIATIVES.....	15,653	15,653	---
132 DOD ENTERPRISE SYSTEMS DEVELOPMENT AND DEMONSTRATION..	2,378	2,378	---
133 DCMO POLICY AND INTEGRATION.....	1,618	1,618	---
134 DEFENSE AGENCY INITIATIVES FINANCIAL SYSTEM.....	27,944	27,944	---
135 DEFENSE RETIRED AND ANNUITANT PAY SYSTEM (DRAS).....	6,609	6,609	---
136 DEFENSE-WIDE ELECTRONIC PROCUREMENT CAPABILITIES.....	9,619	9,619	---
137 TRUSTED & ASSURED MICROELECTRONICS.....	175,032	175,032	---
138 INFORMATION SYSTEMS SECURITY PROGRAM.....	425	425	---
139 GLOBAL COMBAT SUPPORT SYSTEM.....	1,578	1,578	---
140 DOD ENTERPRISE ENERGY INFORMATION MANAGEMENT (EEIM)...	4,373	4,373	---
141 CWMD SYSTEMS: SYSTEM DEVELOPMENT AND DEMONSTRATION....	12,854	12,854	---
TOTAL, ENGINEERING & MANUFACTURING DEVELOPMENT.....	841,588	805,088	-36,500

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
RD&E MANAGEMENT SUPPORT			
142 JOINT CAPABILITY EXPERIMENTATION.....	13,000	13,000	---
143 DEFENSE READINESS REPORTING SYSTEM (DRRS).....	9,724	9,724	---
144 JOINT SYSTEMS ARCHITECTURE DEVELOPMENT.....	9,593	9,593	---
145 CENTRAL TEST AND EVALUATION INVESTMENT DEVELOPMENT....	260,267	280,267	+20,000
146 ASSESSMENTS AND EVALUATIONS.....	30,834	30,834	---
147 MISSION SUPPORT.....	68,498	68,498	---
148 JOINT MISSION ENVIRONMENT TEST CAPABILITY (JMETC).....	83,091	83,091	---
149 TECHNICAL STUDIES, SUPPORT AND ANALYSIS.....	18,079	18,079	---
150 JOINT INTEGRATED AIR AND MISSILE DEFENSE ORGANIZATION..	70,038	62,805	-7,233
152 SYSTEMS ENGINEERING.....	37,140	37,140	---
153 STUDIES AND ANALYSIS SUPPORT.....	4,759	4,759	---
154 NUCLEAR MATTERS - PHYSICAL SECURITY.....	8,307	8,307	---
155 SUPPORT TO NETWORKS AND INFORMATION INTEGRATION.....	9,441	9,441	---
156 GENERAL SUPPORT TO USD (INTELLIGENCE).....	1,700	13,700	+12,000
157 CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM.....	110,363	110,363	---
166 SMALL BUSINESS INNOVATION RESEARCH/TECHNOLOGY TRANSFER	3,568	3,568	---
167 MAINTAINING TECHNOLOGY ADVANTAGE.....	19,936	17,936	-2,000
168 DEFENSE TECHNOLOGY ANALYSIS.....	16,875	16,875	---
169 DEFENSE TECHNICAL INFORMATION CENTER (DTIC).....	57,716	57,716	---
170 R&D IN SUPPORT OF DOD ENLISTMENT, TESTING & EVALUATION	34,448	34,448	---
171 DEVELOPMENT TEST AND EVALUATION.....	22,203	22,203	---
172 MANAGEMENT HEADQUARTERS (RESEARCH & DEVELOPMENT).....	13,208	13,208	---
MANAGEMENT HEADQUARTERS DEFENSE TECHNICAL INFORMATION			
173 CENTER (DTIC).....	3,027	3,027	---
174 BUDGET AND PROGRAM ASSESSMENTS.....	8,017	8,017	---
175 ODA TECHNOLOGY AND RESOURCE ANALYSIS.....	3,194	3,194	---
176 DEFENSE DIGITAL SERVICE (DDS) DEVELOPMENT SUPPORT.....	1,000	1,000	---
179 DEFENSE OPERATIONS SECURITY (OPSEC).....	3,037	3,037	---
180 JOINT STAFF ANALYTICAL SUPPORT.....	9,216	9,216	---
183 SUPPORT TO INFORMATION OPERATIONS (IO) CAPABILITIES...	553	553	---
184 DEFENSE MILITARY DECEPTION PROGRAM OFFICE.....	1,014	1,014	---
185 COMBINED ADVANCED APPLICATIONS.....	58,667	25,636	-33,031
187 INTELLIGENCE CAPABILITIES AND INNOVATION INVESTMENTS..	21,081	15,871	-5,210
189 ALGORITHMIC WARFARE CROSS FUNCTIONAL TEAMS.....	221,235	221,235	---

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
191 COCOM EXERCISE ENGAGEMENT AND TRAINING TRANSFORMATION.	40,073	40,073	---
192 DEFENSE EQUAL OPPORTUNITY MANAGEMENT INSTITUTE (DEOMI)	100	100	---
193 MANAGEMENT HEADQUARTERS - MDA.....	27,065	27,065	---
194 JOINT SERVICE PROVIDER (JSP).....	3,090	3,090	---
9999 CLASSIFIED PROGRAMS.....	51,471	51,471	---
TOTAL, RDT&E MANAGEMENT SUPPORT.....	1,354,628	1,339,154	-15,474
OPERATIONAL SYSTEMS DEVELOPMENT			
195 ENTERPRISE SECURITY SYSTEM (ESS).....	7,945	7,945	---
196 JOINT ARTIFICIAL INTELLIGENCE.....	208,834	166,834	-42,000
197 REGIONAL INTERNATIONAL OUTREACH & PARTNERSHIP FOR PEAC	1,947	1,947	---
198 OVERSEAS HUMANITARIAN ASSISTANCE SHARED INFORMATION SY	310	310	---
199 INDUSTRIAL BASE ANALYSIS AND SUSTAINMENT SUPPORT.....	10,051	39,551	+29,500
200 OPERATIONAL SYSTEMS DEVELOPMENT.....	12,734	12,734	---
201 GLOBAL THEATER SECURITY COOPERATION MANAGEMENT.....	14,800	10,350	-4,450
202 CHEMICAL AND BIOLOGICAL DEFENSE (OPERATIONAL SYSTEMS D	54,023	54,023	---
203 PLANNING AND DECISION AID SYSTEM.....	4,537	4,537	---
204 C4I INTEROPERABILITY.....	64,122	64,122	---
210 DEFENSE INFO INFRASTRUCTURE ENGINEERING & INTEGRATION.	15,798	15,798	---
211 LONG HAUL COMMUNICATIONS (DCS).....	11,166	11,166	---
212 MINIMUM ESSENTIAL EMERGENCY COMMUNICATIONS NETWORK....	17,383	17,383	---
214 KEY MANAGEMENT INFRASTRUCTURE (KMI).....	54,516	54,516	---
215 INFORMATION SYSTEMS SECURITY PROGRAM.....	67,631	67,631	---
216 INFORMATION SYSTEMS SECURITY PROGRAM.....	289,080	287,198	-1,882
217 INFORMATION SYSTEMS SECURITY PROGRAM.....	42,796	40,398	-2,398
218 GLOBAL COMMAND AND CONTROL SYSTEM.....	25,218	25,218	---
219 JOINT SPECTRUM CENTER (DEFENSE SPECTRUM ORGANIZATION).	21,698	19,528	-2,170
220 JOINT INFORMATION ENVIRONMENT (JIE).....	18,077	16,269	-1,808
222 FEDERAL INVESTIGATIVE SERVICES INFORMATION TECHNOLOGY.	44,001	44,001	---
228 SECURITY AND INVESTIGATIVE ACTIVITIES.....	2,400	2,400	---
232 POLICY R&D PROGRAMS.....	6,301	6,301	---
233 NET CENTRICITY.....	21,384	21,384	---
235 DISTRIBUTED COMMON GROUND/SURFACE SYSTEMS.....	6,359	6,359	---
238 DISTRIBUTED COMMON GROUND/SURFACE SYSTEMS.....	2,981	2,981	---

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
241 INSIDER THREAT.....	1,964	1,964	---
242 HOMELAND DEFENSE TECHNOLOGY TRANSFER PROGRAM.....	2,221	2,221	---
250 LOGISTICS SUPPORT ACTIVITIES.....	1,361	1,361	---
251 PACIFIC DISASTER CENTERS.....	1,770	1,770	---
252 DEFENSE PROPERTY ACCOUNTABILITY SYSTEM.....	3,679	3,679	---
254 MQ-9 UAV.....	20,697	20,697	---
256 SPECIAL OPERATIONS AVIATION SYSTEMS ADVANCED DEV.....	245,795	253,795	+8,000
257 SPECIAL OPERATIONS INTELLIGENCE SYSTEMS DEVELOPMENT,...	15,484	15,484	---
258 SOF OPERATIONAL ENHANCEMENTS.....	166,922	166,922	---
259 WARRIOR SYSTEMS.....	62,332	65,332	+3,000
260 SPECIAL PROGRAMS.....	21,805	21,805	---
261 UNMANNED ISR.....	37,377	37,377	---
262 SOF TACTICAL VEHICLES.....	11,150	11,150	---
263 SOF MARITIME SYSTEMS.....	72,626	75,626	+3,000
264 SOF GLOBAL VIDEO SURVEILLANCE ACTIVITIES.....	5,363	5,363	---
265 SOF OPERATIONAL ENHANCEMENTS INTELLIGENCE.....	12,962	9,962	-3,000
266 SOF TELEPORT PROGRAM.....	6,158	5,542	-616
TOTAL, OPERATIONAL SYSTEMS DEVELOPMENT.....	1,715,758	1,700,934	-14,824
999 CLASSIFIED PROGRAMS.....	4,116,640	4,585,830	+469,190
TOTAL, RESEARCH, DEVELOPMENT, TEST & EVAL, DEF-WIDE.	24,346,953	24,502,308	+155,355



EXPLANATION OF PROJECT LEVEL ADJUSTMENTS  
[In thousands of dollars]

R-1		Budget Request	Committee Recommended	Change from Request
3	<b>BASIC RESEARCH INITIATIVES</b>	48,874	61,374	12,500
	Program increase - Minerva research initiative		2,000	
	Program increase - DEPSOR		10,500	
5	<b>NATIONAL DEFENSE EDUCATION PROGRAM</b>	92,074	142,074	50,000
	Program increase - regional fabrication and certification training labs		15,000	
	Basic research program increase		35,000	
6	<b>HISTORICALLY BLACK COLLEGES &amp; UNIVERSITIES (HBCU) AND MINORITY-SERVING INSTITUTIONS</b>	30,708	40,708	10,000
	Program increase		10,000	
12	<b>APPLIED RESEARCH FOR THE ADVANCEMENT OF S&amp;T PRIORITIES</b>	62,200	53,400	-8,800
	Excess growth		-8,800	
13	<b>INFORMATION AND COMMUNICATIONS TECHNOLOGY</b>	442,556	437,556	-5,000
	Unjustified growth		-5,000	
15	<b>CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM</b>	202,587	212,957	10,370
	Excess growth		-2,130	
	Program increase		12,500	
16	<b>CYBER SECURITY RESEARCH</b>	15,118	25,118	10,000
	Program increase - academic cyber institutes		10,000	
19	<b>ELECTRONICS TECHNOLOGY</b>	332,192	326,192	-6,000
	Unjustified growth		-6,000	
22	<b>SPECIAL OPERATIONS TECHNOLOGY DEVELOPMENT</b>	40,569	35,569	-5,000
	Underexecution		-5,000	
25	<b>COMBATING TERRORISM TECHNOLOGY SUPPORT</b>	70,517	75,517	5,000
	Program increase		5,000	
28	<b>COUNTER WEAPONS OF MASS DESTRUCTION ADVANCED TECHNOLOGY DEVELOPMENT</b>	340,065	338,575	-1,490
	Excess growth		-1,490	
29	<b>ADVANCED CONCEPTS AND PERFORMANCE ASSESSMENT</b>	14,208	19,208	5,000
	Program increase - advanced cyber capabilities		5,000	
31	<b>ADVANCED RESEARCH</b>	20,674	27,674	7,000
	Program increase - carbon composites manufacturing		7,000	

R-1	Budget Request	Committee Recommended	Change from Request
34 SPACE PROGRAMS AND TECHNOLOGY RSGS replan excess to need	202,606	190,306 -12,300	-12,300
35 ANALYTIC ASSESSMENTS Underexecution	19,429	18,429 -1,000	-1,000
41 TECHNOLOGY INNOVATION Insufficient justification	60,000	33,729 -26,271	-26,271
CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM - 42 ADVANCED DEVELOPMENT Program increase - improved gas particulate filter unit	172,486	175,486 3,000	3,000
DEFENSE-WIDE MANUFACTURING SCIENCE AND 47 TECHNOLOGY PROGRAM Program increase Program increase - national security technology accelerator Program increase - manufacturing engineering programs Program increase - manufacturing innovation institutes Program increase - advanced manufacturing	96,397	156,397 20,000 15,000 5,000 10,000 10,000	60,000
48 MANUFACTURING TECHNOLOGY PROGRAM Program increase - steel alloy development and manufacturing technology	42,834	52,834 10,000	10,000
EMERGING CAPABILITIES TECHNOLOGY 49 DEVELOPMENT Excess growth Program increase - high-altitude optical reconnaissance unit and sensors	80,911	83,411 -7,500 10,000	2,500
GENERIC LOGISTICS R&D TECHNOLOGY 50 DEMONSTRATIONS Program increase - fuel conversion	10,817	15,817 5,000	5,000
56 NETWORK-CENTRIC WARFARE TECHNOLOGY Unjustified increase	512,424	507,424 -5,000	-5,000
DISTRIBUTED LEARNING ADVANCED TECHNOLOGY 58 DEVELOPMENT Program increase	13,723	22,446 8,723	8,723
HIGH ENERGY LASER ADVANCED TECHNOLOGY 62 PROGRAM Early to need	85,223	76,223 -9,000	-9,000
65 OPERATIONAL ENERGY CAPABILITY IMPROVEMENT Excess growth Program increase - operational energy capability improvement fund	70,536	58,900 -16,636 5,000	-11,636

R-1	Budget Request	Committee Recommended	Change from Request
<b>SPECIAL OPERATIONS ADVANCED TECHNOLOGY</b>			
<b>68 DEVELOPMENT</b>	<b>89,154</b>	<b>93,404</b>	<b>4,250</b>
Program increase - ballistic and laser protective eyewear		4,250	
<b>BALLISTIC MISSILE DEFENSE MIDCOURSE DEFENSE</b>			
<b>75 SEGMENT</b>	<b>1,156,506</b>	<b>969,100</b>	<b>-187,406</b>
Early to need		-147,000	
Inadequate justification		-40,406	
<b>78 BALLISTIC MISSILE DEFENSE ENABLING PROGRAMS</b>	<b>571,507</b>	<b>571,507</b>	<b>0</b>
FTM-44 rescoping ICBM		-2,000	
FTM-44 rescoping non-ICBM		2,000	
<b>79 SPECIAL PROGRAMS - MDA</b>	<b>377,098</b>	<b>512,098</b>	<b>135,000</b>
Program increase - classified unfunded requirement		135,000	
<b>80 AEGIS BMD</b>	<b>727,479</b>	<b>699,479</b>	<b>-28,000</b>
Unjustified growth		-28,000	
<b>81 BALLISTIC MISSILE DEFENSE C2BMC</b>	<b>564,206</b>	<b>560,756</b>	<b>-3,450</b>
Program decrease - IBCS delay		-1,550	
FTM-44 rescoping ICBM		-1,900	
<b>87 BMD TESTS</b>	<b>395,924</b>	<b>392,324</b>	<b>-3,600</b>
FTM-44 rescoping ICBM		-3,600	
<b>88 BMD TARGETS</b>	<b>554,171</b>	<b>541,771</b>	<b>-12,400</b>
FTM-44 rescoping ICBM		-14,200	
FTM-44 rescoping non-ICBM		1,800	
<b>89 HUMANITARIAN DEMINING</b>	<b>10,820</b>	<b>14,700</b>	<b>3,880</b>
Program increase		3,880	
<b>91 DEPARTMENT OF DEFENSE CORROSION PROGRAM</b>	<b>3,365</b>	<b>5,365</b>	<b>2,000</b>
Program increase		2,000	
<b>92 TECHNOLOGY MATURATION INITIATIVES</b>	<b>303,458</b>	<b>271,358</b>	<b>-32,100</b>
Program decrease - neutral particle beam		-34,000	
FTM-44 rescoping ICBM		-3,300	
FTM-44 rescoping non-ICBM		5,200	
<b>93 MISSILE DEFEAT PROJECT</b>	<b>17,816</b>	<b>10,000</b>	<b>-7,816</b>
Insufficient justification		-7,816	
<b>95 HYPERSONIC DEFENSE</b>	<b>157,425</b>	<b>159,325</b>	<b>1,900</b>
Program increase - hypersonic defense		1,900	
<b>96 ADVANCED INNOVATIVE TECHNOLOGIES</b>	<b>1,312,735</b>	<b>1,138,365</b>	<b>-174,370</b>
Insufficient justification		-174,370	

R-1	Budget Request	Committee Recommended	Change from Request
97 TRUSTED & ASSURED MICROELECTRONICS	542,421	547,421	5,000
Program increase - supply chain risk management		5,000	
99 DEFENSE INNOVATION UNIT (DIU) PROTOTYPING	92,000	17,000	-75,000
Insufficient justification - National Security Innovation Capital project		-75,000	
105 DEFENSE RAPID INNOVATION PROGRAM	14,021	0	-14,021
Program decrease - DTRA insufficient justification		-14,021	
111 AEGIS BMD TEST	169,822	150,722	-19,100
FTM-44 rescoping ICBM		-39,400	
FTM-44 rescoping non-ICBM		20,300	
112 BALLISTIC MISSILE DEFENSE SENSORS TEST	105,530	94,830	-10,700
FTM-44 rescoping ICBM		-15,000	
FTM-44 rescoping non-ICBM		4,300	
BALLISTIC MISSILE DEFENSE MIDCOURSE DEFENSE			
115 SEGMENT TEST	98,139	96,439	-1,700
FTM-44 rescoping ICBM		-1,700	
119 CYBER SECURITY INITIATIVE	1,138	6,138	5,000
Program increase - manufacturing cybersecurity		5,000	
SPACE TECHNOLOGY DEVELOPMENT AND			
120 PROTOTYPING	85,000	35,000	-50,000
Insufficient justification		-50,000	
BALLISTIC MISSILE DEFENSE SYSTEM SPACE			
122 PROGRAMS	27,565	135,565	108,000
Program increase - hypersonic and ballistic tracking space sensor unfunded requirement		108,000	
124 PROMPT GLOBAL STRIKE CAPABILITY DEVELOPMENT	107,000	0	-107,000
Transfer to RDTE,A line 100		-31,000	
Classified Reduction		-76,000	
124A HYPERSONICS CAPABILITY DEVELOPMENT	0	85,000	85,000
Program increase		85,000	
125 CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM	384,047	374,047	-10,000
Excess growth		-10,000	
JOINT TACTICAL INFORMATION DISTRIBUTION			
126 SYSTEM (JTIDS)	40,102	45,602	5,500
Program increase - encrypted and authenticated data in transit		5,500	
130 DEFENSE EXPORTABILITY PROGRAM	17,615	7,615	-10,000
Excess growth		-10,000	

R-1	Budget Request	Committee Recommended	Change from Request
145 CENTRAL TEST & EVAL INVESTMENT DEVELOPMENT Program increase - hypersonic test facilities	260,267	280,267 20,000	20,000
JOINT THEATER AIR AND MISSILE DEFENSE			
150 ORGANIZATION Excess growth	70,038	62,805 -7,233	-7,233
156 GENERAL SUPPORT TO USD (INTELLIGENCE) Program increase - applied research laboratory for intelligence and security	1,700	13,700 12,000	12,000
167 MAINTAINING TECHNOLOGY ADVANTAGE Excess growth	19,936	17,936 -2,000	-2,000
185 COMBINED ADVANCED APPLICATIONS Unjustified growth	58,667	25,636 -33,031	-33,031
INTELLIGENCE CAPABILITIES AND INNOVATION			
187 INVESTMENTS Insufficient justification	21,081	15,871 -5,210	-5,210
196 JOINT ARTIFICIAL INTELLIGENCE Insufficient justification	208,834	166,834 -42,000	-42,000
INDUSTRIAL BASE ANALYSIS AND SUSTAINMENT			
199 SUPPORT Program increase Program increase - advanced armor piercing penetrator Program increase - precision optics manufacturing	10,051	39,551 10,000 12,000 7,500	29,500
GLOBAL THEATER SECURITY COOPERATION			
201 MANAGEMENT Excess growth	14,800	10,350 -4,450	-4,450
216 INFORMATION SYSTEMS SECURITY PROGRAM Sharkseer - transfer to line 217	289,080	287,198 -1,882	-1,882
217 INFORMATION SYSTEMS SECURITY PROGRAM Unjustified growth Sharkseer - transfer to line 216	42,796	40,398 -4,280 1,882	-2,398
219 DEFENSE SPECTRUM ORGANIZATION Insufficient justification	21,698	19,528 -2,170	-2,170
220 JOINT REGIONAL SECURITY STACKS (JRSS) Insufficient justification	18,077	16,269 -1,808	-1,808
SPECIAL OPERATIONS AVIATION SYSTEMS			
256 ADVANCED DEVELOPMENT Program increase - loitering missile	245,795	253,795 8,000	8,000

R-1	Budget Request	Committee Recommended	Change from Request
<b>259 WARRIOR SYSTEMS</b>	<b>62,332</b>	<b>65,332</b>	<b>3,000</b>
Program increase - small glide munition UAS integration		3,000	
<b>263 SOF MARITIME SYSTEMS</b>	<b>72,626</b>	<b>75,626</b>	<b>3,000</b>
Program increase - diver propulsion		3,000	
<b>265 SOF OPERATIONAL ENHANCEMENTS INTELLIGENCE</b>	<b>12,962</b>	<b>9,962</b>	<b>-3,000</b>
Underexecution		-3,000	
<b>266 TELEPORT PROGRAM</b>	<b>6,158</b>	<b>5,542</b>	<b>-616</b>
Insufficient justification		-616	
<b>999 CLASSIFIED PROGRAMS</b>	<b>4,116,640</b>	<b>4,585,830</b>	<b>469,190</b>
Classified adjustment		43,190	
Transfer from title IX		426,000	

## RENEWABLE ENERGY FOR MILITARY INSTALLATIONS

The Committee notes that ensuring a reliable and resilient electrical power supply to military installations is critical to national security. The Committee further notes that renewable sources of energy can provide electricity while reducing long-term base operating costs. The Committee encourages the Secretary of Defense to support the research and development of renewable energy technology, such as solar arrays, that are resilient against extreme environmental and seismic conditions, electromagnetic pulse, and intentional disruption.

## TRUSTED FOUNDRY

The Committee recognizes the importance of obtaining microelectronics from trusted suppliers. The Committee continues to urge the Secretary of Defense to facilitate and encourage competition in the fabrication of microelectronic devices when two or more participants in the Trusted Foundry Program can provide such devices and to expand opportunities for participation in the Trusted Foundry program. Participants in the Trusted Foundry Program should have the opportunity to compete under full, open, and merit-based competition, to the extent practicable, for all Trusted Foundry contracts.

## COOPERATIVE RESEARCH

The Committee is pleased with efforts by the Service Secretaries to increase communication and cooperation among the military Services on science and technology investments. Coordination of the respective research agendas and investment plans will help reduce duplication, better leverage investments in areas of mutual interest, and reduce gaps in promising areas of technology. The Committee directs the Secretary of Defense to submit a report to the congressional defense committees not later than 120 days after the enactment of this Act which identifies the strategy and goals for each specific area of ongoing cooperative research, a five-year plan of prospective areas of cooperative research, and an estimate of amounts and sources of funding to carry out such research.

## WOMEN AND MINORITIES IN STEM PIPELINE

The Department of Defense faces challenges recruiting and retaining a workforce skilled in science, technology, engineering, and mathematics (STEM). While this is a nationwide concern, the Committee supports Department of Defense efforts to grow the STEM workforce pipeline, particularly for women and minorities. The Committee encourages the Under Secretary of Defense for Research and Engineering to continue these efforts by partnering with Hispanic Serving Institutions, Historically Black Colleges and Universities, and other Minority Serving Institutions on research, fellowships, internships, and cooperative work experiences at defense laboratories.

Additionally, the Committee encourages the Under Secretary of Defense for Research and Engineering to collaborate with Hispanic Serving Institutions, Historically Black Colleges and Universities, and other Minority Serving Institutions to build a pipeline for sci-

entists and engineers to enter the cyber workforce upon graduation. The Committee directs the Under Secretary of Defense for Research and Engineering to submit a report to the House and Senate Appropriations Committees not later than 90 days after the enactment of this Act on departmental efforts to collaborate with these institutions in science and engineering fields.

#### LEAD-FREE ELECTRONICS

The current commercial trend toward lead-free electronics may result in supply chain and procurement issues that will impact the Department of Defense. The Committee encourages the Under Secretary of Defense for Research and Engineering to establish and maintain partnerships with industry and academia to close technical gaps and increase the capacity of the defense industry to produce lead-free electronics that meet military requirements.

#### PROTECTING TROOPS FROM BIOLOGICAL WEAPONS

The Committee recognizes the complexity of protecting warfighters from a full spectrum of biological threats. The Committee encourages the Director of the Defense Threat Reduction Agency to collaborate with institutions of higher learning on efforts to fully protect warfighters from biological threats.

#### FORENSIC SCIENCE WORKFORCE

The Committee understands that the Department of Defense has a requirement to grow its forensics workforce. The Committee encourages the Under Secretary of Defense for Research and Engineering to evaluate the Department's need for forensic scientists and collaborate with colleges and universities with programs that the Department may be able to leverage.

#### MILITARY LANGUAGE FLAGSHIP PROGRAM

The Committee recognizes that the National Security Education Program provides training for servicemembers and civilians in languages and cultures critical to national security. The Committee encourages the Secretary of Defense to continue supporting programs that ensure warfighters receive the language and culture training needed to effectively complete missions. Additionally, the Committee directs the Secretary of Defense to submit a report to the congressional defense committees not later than 120 days after the enactment of this Act which provides the percentage of strategic language billets filled with level three foreign language speakers and identifies additional resources that may be required to address existing shortfalls in this skillset.

#### INTEGRATED POWER AND THERMAL SYSTEMS

The Committee recognizes the importance of emergent capabilities in the field of directed energy weapons and acknowledges that a modular and scalable integrated power and thermal system capable of powering a directed energy weapon system of 100 or more kilowatts would provide an enhanced capability. The Committee encourages the Under Secretary of Defense for Research and Engi-



neering to review requirements for an integrated power and thermal system.

#### DISTRIBUTED LEDGER TECHNOLOGY RESEARCH AND DEVELOPMENT

The Committee is aware that distributed ledger technologies, such as blockchain, may have potentially useful applications for the Department of Defense, which include but are not limited to distributed computing, cyber security, logistics, and auditing. Therefore, the Committee encourages the Under Secretary of Defense for Research and Engineering to consider research and development to explore the use of distributed ledger technologies for defense applications.

#### NATIONAL SECURITY INNOVATION BASE

The Committee supports the contributions by the Department of Defense Basic Research Office to the national security innovation base. The Committee encourages the Under Secretary of Defense for Research and Engineering to continue these efforts, and expand connections between the Department of Defense, industry, and academia to provide a strong base for research of warfighting technologies.

#### ADVANCED STRUCTURAL MANUFACTURING TECHNOLOGIES

The Committee supports additional development on advanced additive manufacturing technologies utilizing cold spray to accelerate the delivery of technical capabilities to warfighters and expeditiously advance technologies. The Committee encourages the Under Secretary of Defense for Research and Engineering to consider the potential benefits of cold spray in operational and modernization efforts.

#### OPERATIONAL TEST AND EVALUATION, DEFENSE

Fiscal year 2019 appropriation .....	\$381,009,000
Fiscal year 2020 budget request .....	221,200,000
Committee recommendation .....	221,200,000
Change from budget request .....	— — —

The Committee recommends an appropriation of \$221,200,000 for Operational Test and Evaluation, Defense which will provide the following program in fiscal year 2020:

#### EXPLANATION OF PROJECT LEVEL ADJUSTMENTS

[In thousands of dollars]

	Budget Request	Committee Recommended	Change from Request
OPERATIONAL TEST AND EVALUATION .....	93,291	93,291	0
LIVE FIRE TESTING .....	69,172	69,172	0
OPERATIONAL TEST ACTIVITIES AND ANALYSIS .....	58,737	58,737	0
TOTAL, OPERATIONAL TEST & EVALUATION, DEFENSE .....	221,200	221,200	0



**TITLE V**  
**REVOLVING AND MANAGEMENT FUNDS**  
**DEFENSE WORKING CAPITAL FUNDS**

Fiscal year 2019 appropriation .....	\$1,641,115,000
Fiscal year 2020 budget request .....	1,226,211,000
Committee recommendation .....	1,226,211,000
Change from budget request .....	— — —

The Committee recommends an appropriation of \$1,226,211,000 for the Defense Working Capital Funds accounts which will provide the following program in fiscal year 2020:

**EXPLANATION OF PROJECT LEVEL ADJUSTMENTS**

[In thousands of dollars]

	Budget Request	Committee Recommended	Change from Request
WORKING CAPITAL FUND, ARMY .....	89,597	89,597	0
WORKING CAPITAL FUND, AIR FORCE .....	92,499	92,499	0
WORKING CAPITAL FUND, DEFENSE-WIDE .....	49,085	49,085	0
DEFENSE WORKING CAPITAL FUND, DECA .....	995,030	995,030	0
 TOTAL, DEFENSE WORKING CAPITAL FUNDS .....	 1,226,211	 1,226,211	 0

**DEFENSE COUNTERINTELLIGENCE AND SECURITY  
AGENCY WORKING CAPITAL FUND**

Fiscal year 2019 appropriation .....	\$— — —
Fiscal year 2020 budget request .....	200,000,000
Committee recommendation .....	200,000,000
Change from budget request .....	— — —

The Committee recommends an appropriation of \$200,000,000 for the Defense Counterintelligence and Security Agency Working Capital Fund.



TITLE VI  
OTHER DEPARTMENT OF DEFENSE PROGRAMS  
DEFENSE HEALTH PROGRAM

Fiscal year 2019 appropriation .....	\$34,007,519,000
Fiscal year 2020 budget request .....	32,998,687,000
Committee recommendation .....	33,463,539,000
Change from budget request .....	+464,852,000

The Committee recommends an appropriation of \$33,463,539,000 for the Defense Health Program which will provide the following program in fiscal year 2020:

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
DEFENSE HEALTH PROGRAM			
10 OPERATION AND MAINTENANCE			
IN-HOUSE CARE.....	9,570,615	9,325,615	-245,000
20 PRIVATE SECTOR CARE.....	15,041,006	14,889,458	-151,548
30 CONSOLIDATED HEALTH SUPPORT.....	1,975,536	1,979,436	+3,900
40 INFORMATION MANAGEMENT.....	2,004,588	1,998,938	-5,650
50 MANAGEMENT ACTIVITIES.....	333,246	330,246	-3,000
60 EDUCATION AND TRAINING.....	793,810	754,960	-38,850
70 BASE OPERATIONS/COMMUNICATIONS.....	2,093,289	2,078,289	-15,000
SUBTOTAL, OPERATION AND MAINTENANCE.....	31,812,090	31,356,942	-455,148
PROCUREMENT			
150 INITIAL OUTFITTING.....	26,135	26,135	---
160 REPLACEMENT AND MODERNIZATION.....	225,774	225,774	---
170 JOINT OPERATIONAL MEDICINE INFORMATION SYSTEM.....	314	314	---
180 MILITARY HEALTH SYSTEM - DESKTOP TO DATACENTER.....	73,010	73,010	---
180 DOD HEALTH MANAGEMENT SYSTEM MODERNIZATION.....	129,091	129,091	---
SUBTOTAL, PROCUREMENT.....	454,324	454,324	---
RESEARCH DEVELOPMENT TEST AND EVALUATION			
80 RESEARCH.....	12,621	12,621	---
90 EXPLORATORY DEVELOPMENT.....	84,266	84,266	---
100 ADVANCED DEVELOPMENT.....	279,766	279,766	---
110 DEMONSTRATION/VALIDATION.....	128,055	128,055	---
120 ENGINEERING DEVELOPMENT.....	143,527	143,527	---
130 MANAGEMENT AND SUPPORT.....	67,219	67,219	---
140 CAPABILITIES ENHANCEMENT.....	16,819	16,819	---
150 UNDISTRIBUTED MEDICAL RESEARCH.....	---	920,000	+920,000
SUBTOTAL, RESEARCH DEVELOPMENT TEST AND EVALUATION..	732,273	1,652,273	+920,000
TOTAL, DEFENSE HEALTH PROGRAM.....	32,998,687	33,463,539	+464,852
	=====	=====	=====

**EXPLANATION OF PROJECT LEVEL ADJUSTMENTS**  
[In thousands of dollars]

	Budget Request	Committee Recommended	Change from Request
<b>OPERATION AND MAINTENANCE</b>			
<b>IN-HOUSE CARE</b>	9,570,615	9,325,615	-245,000
Medical reform implementation		-250,000	
Transfer from OM,DW line 1PLR		5,000	
<b>PRIVATE SECTOR CARE</b>	15,041,006	14,889,458	-151,548
Medical reform implementation		-34,650	
Historical underexecution		-116,898	
<b>CONSOLIDATED HEALTH SUPPORT</b>	1,975,536	1,979,436	3,900
Aeromedical Evacuation System excess growth		-7,100	
Program increase - therapeutic service dog training program		11,000	
<b>INFORMATION MANAGEMENT</b>	2,004,588	1,998,938	-5,650
Historical underexecution		-5,650	
<b>MANAGEMENT ACTIVITIES</b>	333,246	330,246	-3,000
Medical reform implementation		-3,000	
<b>EDUCATION AND TRAINING</b>	793,810	754,960	-38,850
Medical reform implementation		-35,850	
Other costs excess growth		-3,000	
<b>BASE OPERATIONS AND COMMUNICATIONS</b>	2,093,289	2,078,289	-15,000
Insufficient justification		-10,000	
Other costs excess growth		-5,000	
<b>TOTAL, OPERATION AND MAINTENANCE</b>	31,812,090	31,356,942	-455,148
<b>PROCUREMENT</b>			
<b>TOTAL, PROCUREMENT</b>	454,324	454,324	0
<b>RESEARCH AND DEVELOPMENT</b>			
Peer-reviewed ALS research		20,000	
Peer-reviewed alzheimer research		15,000	
Peer-reviewed autism research		15,000	
Peer-reviewed bone marrow failure disease research		3,000	
Peer-reviewed breast cancer research		150,000	
Peer-reviewed cancer research		100,000	
Peer-reviewed Duchenne muscular dystrophy research		10,000	
Peer-reviewed gulf war illness research		22,000	
Peer-reviewed hearing restoration research		10,000	
Peer-reviewed kidney cancer research		30,000	
Peer-reviewed lung cancer research		14,000	
Peer-reviewed lupus research		10,000	
Peer-reviewed melanoma research		10,000	
Peer-reviewed multiple sclerosis research		16,000	
Peer-reviewed orthopedic research		30,000	
Peer-reviewed ovarian cancer research		35,000	
Peer-reviewed pancreatic cancer research		4,000	
Peer-reviewed prostate cancer research		110,000	
Peer-reviewed scleroderma research		5,000	

	Budget Request	Committee Recommended	Change from Request
Peer-reviewed spinal cord research		30,000	
Peer-reviewed reconstructive transplant research		12,000	
Peer-reviewed tickborne disease research		5,000	
Peer-reviewed traumatic brain injury and psychological health research		155,000	
Peer-reviewed tuberous sclerosis complex research		6,000	
Peer-reviewed vision research		20,000	
Global HIV/AIDS prevention		8,000	
HIV/AIDS program increase		15,000	
Joint warfighter medical research		40,000	
Trauma clinical research program		10,000	
Combat readiness medical research		10,000	
<b>TOTAL, RESEARCH AND DEVELOPMENT</b>	<b>732,273</b>	<b>1,652,273</b>	<b>920,000</b>



## REPROGRAMMING GUIDANCE FOR THE DEFENSE HEALTH PROGRAM

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 as limiting the amount of funds that may be transferred to the In-House Care budget sub-activity from other budget sub-activities within the Defense Health Program. In addition, funding for the In-House Care budget sub-activity continues to be designated as a congressional special interest item. Any transfer of funds from the In-House Care budget sub-activity into the Private Sector Care budget sub-activity or any other budget sub-activity requires the Secretary of Defense to follow prior approval reprogramming procedures for operation and maintenance funds.

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. Furthermore, the Committee directs the Secretary of Defense to provide a report to the congressional defense committees not later than 30 days after the enactment of this Act that delineates transfers of funds, and the dates any transfers occurred, from the Private Sector Care budget sub-activity to any other budget sub-activity.

The Committee further directs the Assistant Secretary of Defense for 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. These reports should also be provided to the Government Accountability Office.

## CARRYOVER

For fiscal year 2020, the Committee recommends one percent carryover authority for the operation and maintenance account of the Defense Health Program. The Committee directs the Assistant Secretary of Defense for Health Affairs to submit a detailed spending plan for any fiscal year 2019 designated carryover funds to the congressional defense committees not less than 30 days prior to executing the carryover funds.

## PEER-REVIEWED CANCER RESEARCH PROGRAMS

The Committee recommends \$150,000,000 for the peer-reviewed breast cancer research program, \$110,000,000 for the peer-reviewed prostate cancer research program, \$35,000,000 for the peer-reviewed ovarian cancer research program, \$30,000,000 for the peer-reviewed kidney cancer research program, \$14,000,000 for the peer-reviewed lung cancer research program, \$10,000,000 for the peer-reviewed melanoma cancer research program, \$4,000,000 for the peer-reviewed pancreatic cancer research program, and \$100,000,000 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, esophageal cancer, liver cancer, lymphoma, skin cancers, mesothelioma, rare cancers, stomach cancer, and cancer in children, adolescents, and young adults.

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 for 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 shall include the funding amount awarded, the progress of the research, and the relevance of the research to servicemembers and their families.

The Committee commends the Department of Defense for ensuring that projects funded through the various peer-reviewed cancer research programs maintain a focus on issues of significance to military populations and the warfighter. This includes promoting collaborative research proposals between Department of Defense researchers and non-military research institutions. These collaborations leverage the knowledge, infrastructure and access to clinical populations that the partners bring to the research effort. Additionally, promoting these collaborations provides a valuable recruitment and retention incentive for military medical and research personnel. The Committee encourages the Assistant Secretary of Defense for Health Affairs to continue to emphasize the importance of these collaborations between military and non-military researchers throughout the peer review process.

#### JOINT WARFIGHTER MEDICAL RESEARCH PROGRAM

The Committee recommendation includes \$40,000,000 for the continuation of the joint warfighter medical research program. The funding shall be used to augment and accelerate high priority Department of Defense and Service medical requirements and to continue prior year initiatives that are close to achieving their objectives and yielding a benefit to military medicine. The funding shall not be used for new projects nor for basic research, and it 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 for Health Affairs to submit a report not later than 180 days after the enactment of this Act to the congressional defense committees that 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.

#### COMBAT READINESS MEDICAL RESEARCH PROGRAM

The Committee recommendation includes \$10,000,000 for the Combat Readiness Medical Research program. The program should focus on medical needs of the warfighter on the battlefield. Research should address the "golden hour" for servicemembers with

life threatening injuries, battlefield diagnostics, and medical threats and treatments for warfighters deployed around the world.

The Committee expects the Assistant Secretary of Defense for Health Affairs to identify current gaps in medical planning and resources, consider medical capabilities that may mitigate fatalities, enhance battlefield diagnostics, and find solutions for life threatening complications after battlefield injury.

The funding in the Combat Readiness Medical Research program should be used for research and development of freeze-dried plasma and platelets; rapidly deployable, all-in-one acute and chronic wound care therapy engineered to address complex trauma and start tissue regeneration; repairing or restoring damaged or missing genitourinary organs and tissue; portable neurological devices in support of mild traumatic brain injury assessment; prevention of Enterotoxigenic *Escherichia coli* diarrheal disease; inflammatory bowel disease; myalgic encephalomyelitis/chronic fatigue syndrome; sleep disorders; telemedicine; and infectious diseases.

#### ELECTRONIC HEALTH RECORDS

The Committee continues to support the efforts that the Department of Defense and the Department of Veterans Affairs are undertaking with regard to electronic health records and the health record system. It is the Committee's ongoing expectation that the Departments' electronic health record systems must be completely and meaningfully interoperable with seamless compatibility. The Committee is encouraged that the Department of Veterans Affairs has decided to adopt the same electronic health record system as the Department of Defense; however, the Committee remains frustrated over the amount of time it will take before both Departments' systems are fully deployed to all military treatment facilities and Department of Veterans Affairs medical facilities. Therefore, the Committee directs the Secretary of Defense to expeditiously implement the Electronic Health Record Modernization Joint Commitment, which includes the prompt establishment of an accountable and coordinated decision-making and oversight entity.

The Committee directs the Comptroller General to perform quarterly performance reviews of the Department of Defense electronic health record deployment so that the Committee can further monitor implementation of the system and whether it is meeting predicted cost assumptions. This will be particularly important as the next wave of military treatment facilities are expected to start implementing MHS Genesis in 2019.

The Committee also directs the Director of the Interagency Program Office (IPO) to continue to provide quarterly reports on the progress of interoperability between the two Departments to the House and Senate Defense Appropriations Subcommittees and the House and Senate Military Construction, Veterans Affairs, and Related Agencies Appropriations Subcommittees. The Program Executive Officer (PEO) for Defense Healthcare Management Systems (DHMS), in conjunction with the Director of the 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. The Committee directs the PEO DHMS to con-

tinue briefing the House and Senate Defense Appropriations Subcommittees on a quarterly basis, coinciding with the report submission.

#### MILITARY HEALTH SYSTEM TRANSFORMATION

The Committee is concerned with the implementation of medical reforms mandated by the National Defense Authorization Act for Fiscal Year 2017. The reforms represent the most significant changes to the Military Health System in decades, and the Committee believes it is critical to implement the reforms in such a way that minimizes risk for servicemembers and beneficiaries.

Prior to implementation, both medical readiness and healthcare benefits were intertwined, managed by the Service Surgeons General. Under that model, there was no separation between benefits and readiness and the Services had a holistic picture in treating servicemembers and their families. Additionally, funding for both efforts was intertwined. As reforms are now implemented, the medical readiness of the servicemember will be split from the healthcare benefit. The Services will be responsible for medical readiness while the Defense Health Agency (DHA) will manage the healthcare benefit. Ultimately, military treatment facilities in some locations may be downsized, closed, or healthcare services reduced; remaining military treatment facilities will be administered by the Director of DHA; and fewer military medical providers in non-combat critical specialties will be required. Important questions remain about each aspect of the implementation, and the Committee has been unsatisfied with the Department's inadequate responses.

The impact of these changes on servicemembers and their families is extremely important. It is unclear whether readiness levels or benefits will be negatively affected. For example, access to mental health care is crucial for both servicemembers and their families. The Committee recognizes that there is a nationwide shortage of mental health care professionals and yet the Committee has not seen a plan from DHA on how this field or others will be categorized and accounted for in the Services, the DHA, or both, leaving the Committee with doubts that these critical health care services will be satisfactorily available.

To start accounting for the funding and details related to medical readiness and healthcare benefits, the Committee directs the Secretary of Defense, in coordination with the Service Secretaries and Assistant Secretary of Defense for Health Affairs, to submit separate annual budget justification materials for readiness related care and healthcare benefits beginning with the fiscal year 2021 budget submission.

#### DESCOPING MILITARY TREATMENT FACILITIES

The Committee understands that the Department of Defense expects to submit the "Section 703 Report to Congress" in the summer of 2019. It is anticipated that this report will detail changes to military treatment facilities, and in some cases may recommend closure or elimination of certain healthcare services. Prior to the obligation of funds in fiscal year 2020 to close or descope any military treatment facilities, the Committee directs the Assistant Secretary of Defense for Health Affairs, in coordination with the Direc-

tor of the Defense Health Agency and the Service Surgeons General, to brief the congressional defense committees on how all decisions were informed. The briefing should include a detailed description of the market analysis conducted, cost implications, timeline, impact on providers, and benefits or risks to the served population.

#### REDUCTION OF MILITARY BILLETS

The fiscal year 2020 budget request represents the most significant review of military medical end strength since fiscal year 2003. The request includes a proposal to realign or eliminate almost 18,000 military medical billets in fiscal year 2020. While the eliminated medical billets would transfer back to the Services for lethality purposes in fiscal year 2020, actual implementation of the strength reductions will be accomplished through attrition in subsequent years.

The Committee is dissatisfied that the reductions were not appropriately captured in the budget request materials by showing all billets being reduced in fiscal year 2020 as opposed to a phased reduction. The Committee is displeased that medical readiness appears to have been the only consideration when such decisions were made, that key leaders across the Department are either unable or unprepared to articulate a comprehensive plan, and that these reductions will have major ramifications throughout the Military Health System. The Department has not adequately justified this request or provided a detailed mitigation plan that would not result in lowered availability of care for beneficiaries.

While the Committee is concerned with the number of medical positions being eliminated and the premise of the analysis used to justify the reductions, the Committee also acknowledges that there are thousands of currently unfilled medical billets, which will be first reduced in fiscal year 2020. The fiscal year 2020 budget request includes an increase of \$250,000,000 in In-House Care to mitigate potential access to care issues caused by the reduction of military providers. Responses to Committee questions on risk and access issues have failed to explain the impact of these reductions. In fact, the Department's analysis on impacts to readiness, patient safety, access to care, and cost will not be completed until late summer or early fall 2019. This, coupled with the number of currently unfilled billets that can be shed with no cost, has led to the Committee recommendation to deny the requested increase of \$250,000,000. The Committee remains willing to continue the dialogue on required funding once analysis has been completed. As the fiscal year 2020 request for funding is expected to be the first increment of larger budget requests over the future years defense program to allay potential problems, the Committee fully expects the fiscal year 2021 budget justification will provide details required for proper congressional oversight.

#### TRANSITIONING MILITARY TREATMENT FACILITIES TO THE DEFENSE HEALTH AGENCY

In October 2018, the first group of military treatment facilities transitioned control from the Services to the Defense Health Agency (DHA). As additional treatment facilities are scheduled to transition in October 2019, the Committee encourages the Assistant

Secretary of Defense for Health Affairs, in coordination with the Director of DHA and the Service Surgeons General, to ensure that the DHA is prepared to assume management and administration responsibilities of the treatment facilities prior to the next transition. The Committee directs the Comptroller General to submit a report to the congressional defense committees not later than 90 days after the enactment of this Act on the transition of the military treatment facilities to the DHA. The report should include a review of functions at facilities that have already transitioned, including DHA's role, management or administration support that the Services are providing and a timeline for that support to cease; cost implications of the transition; the current and planned DHA staffing model; and how the DHA will ensure that the Services' medical requirements are accounted for.

#### METASTATIC CANCER RESEARCH

Metastatic cancer is cancer that has spread from its original location to another place in the body, representing what is known as stage III and stage IV cancer diagnoses. While recent research has revealed that there is a genetic basis for susceptibility or resistance to metastasis, more research is needed to develop a comprehensive understanding of this complex process. The Committee encourages the Assistant Secretary of Defense for Health Affairs to implement the recommendations provided by the Department of Defense task force on metastatic cancer to make significant progress fighting cancer and saving lives.

#### COLLABORATION WITH MINORITY SERVING HEALTH INSTITUTIONS

The Committee encourages the Assistant Secretary of Defense for Health Affairs to work collaboratively in the health research field with Hispanic Serving Institutions, Historically Black Colleges and Universities, and other Minority Serving Institutions. The Committee directs the Assistant Secretary of Defense for Health Affairs to submit a report to the House and Senate Appropriations Committees not later than 90 days after the enactment of this Act on the Department's efforts to collaborate with these institutions in the health research field.

#### CREATIVE ARTS THERAPIES

The Committee recognizes that the use of creative arts therapies shows potential in treating servicemembers with traumatic brain injuries and psychological health conditions. The Committee supports Department of Defense efforts to include creative arts therapies as part of an interdisciplinary treatment model. The Committee encourages the Assistant Secretary of Defense for Health Affairs to continue creative arts therapies programs at the National Intrepid Centers, and to continue collaborations with the National Endowment for the Arts Creative Forces.

#### DIET AND FORCE READINESS

The diet of military personnel can impact their health and physical readiness and can contribute to how quickly they are able to return to service after an injury. The Committee encourages the

Assistant Secretary of Defense for Health Affairs to conduct research on diet and dietary restrictions as it relates to force readiness and the physical capabilities and rehabilitation of servicemembers.

#### UNIVERSITY AFFILIATED RESEARCH CENTERS

The Committee notes the important relationship between the Department of Defense and Department-sponsored University Affiliated Research Center (UARC) laboratories in providing critical science, technology, and engineering research that supports the warfighter. The Committee encourages the Assistant Secretary of Defense for Health Affairs to establish a UARC to focus on the unique challenges wounded servicemembers experience. Emphasis should be placed on research that reduces dependency on opioids, develops novel pain management and mental health strategies, and leverages partnerships with industry and medical device manufacturers to advance promising technologies for wounded servicemembers.

#### 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 directs the Assistant Secretary of Defense for Health Affairs to submit a report to the House and Senate Appropriations Committees not later than 90 days after the enactment of this Act on the Department's efforts to ensure that military orthopedic health professionals are provided with opportunities for advanced surgical training in arthroscopic techniques. The Committee encourages the Assistant Secretary of Defense for Health Affairs to explore partnerships with medical professional societies that maintain best practices related to arthroscopic surgery and techniques.

#### VALLEY FEVER

Coccidioidomycosis, also known as Valley Fever, is a fungal disease that is contracted by inhaling the spores of a fungus found in the soil endemic to the American southwest and other parts of the world. The Committee is concerned about the impacts on readiness that Valley Fever poses to servicemembers stationed at military installations in the southwest. Therefore, the Committee encourages the Assistant Secretary of Defense for Health Affairs to research coccidioidomycosis, its effects on military personnel, and ways the Department of Defense can limit exposure for servicemembers.

#### TRAUMATIC BRAIN INJURY

The Committee recognizes recent efforts by the Department of Defense to leverage partnerships with academia and the private sector to understand and improve prevention and treatment of

traumatic brain injuries to servicemembers. The Committee encourages the Assistant Secretary of Defense for Health Affairs to continue to leverage partnerships with academia and the private sector to support further studies of traumatic brain injuries to gain a deeper understanding of concussive injuries including how they impact the brain, how and to what extent the brain recovers, and how prevention and treatment methods may be improved.

#### MENTAL HEALTH PROVIDERS

The Committee supports the Department's continuing efforts to ensure that servicemembers have access to high quality mental health services and providers. In order to ensure that the Department continues to have full access to qualified clinical psychologists, the Committee encourages the Assistant Secretary of Defense for Health Affairs to review regulations regarding employment of clinical psychologists who graduate from schools accredited by the Psychologist Clinical Science Accreditation System.

#### THE CANCER CENTER AT WALTER REED NATIONAL MILITARY MEDICAL CENTER

The Committee recognizes that close cooperation between The John P. Murtha Cancer Center at Walter Reed National Military Medical Center and the Assistant Secretary of Defense for Health Affairs has fostered the partnership between the Murtha Cancer Center and the Oncology Research Information Exchange Network. The Murtha Cancer Center is the only center of excellence for cancer care in the military health system. This partnership allows the Murtha Cancer Center to collaborate in cancer research with several academic cancer centers that all use a single protocol for long-term health surveillance of cancer patients to correlate patterns in cancer incidence, treatment response, and survivorship with genetic information, demographic data, and other factors. The Committee commends the Assistant Secretary of Defense for Health Affairs for assisting the Murtha Cancer Center in this partnership and encourages increased support to allow for continued expansion of this effort to deliver enhanced cancer treatment for all servicemembers and their families.

#### SEXUAL ASSAULT AND POST-TRAUMATIC STRESS DISORDER

The Committee believes that providing servicemembers access to outpatient programs designed to treat individuals suffering from post-traumatic stress disorder (PTSD) resulting from sexual assault trauma could improve outcomes received for military sexual assault survivors experiencing PTSD. The Committee encourages the Assistant Secretary of Defense for Health Affairs to collaborate with research institutions currently investigating treatment strategies for PTSD resulting from sexual trauma.

#### CHEMICAL AGENTS AND MUNITIONS DESTRUCTION, DEFENSE

Fiscal year 2019 appropriation .....	\$993,816,000
Fiscal year 2020 budget request .....	985,499,000
Committee recommendation .....	985,499,000
Change from budget request .....	---



The Committee recommends an appropriation of \$985,499,000 for Chemical Agents and Munitions Destruction, Defense which will provide the following program in fiscal year 2020:

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS

[In thousands of dollars]

	Budget Request	Committee Recommended	Change from Request
OPERATION AND MAINTENANCE .....	107,351	107,351	0
PROCUREMENT .....	2,218	2,218	0
RESEARCH, DEVELOPMENT, TEST AND EVALUATION .....	875,930	875,930	0
TOTAL, CHEMICAL AGENTS AND MUNITIONS DESTRUCTION, DEFENSE ..	985,499	985,499	0

DRUG INTERDICTION AND COUNTER-DRUG ACTIVITIES,  
DEFENSE

Fiscal year 2019 appropriation .....	\$881,525,000
Fiscal year 2020 budget request .....	799,402,000
Committee recommendation .....	816,755,000
Change from budget request .....	+17,353,000

The Committee recommends an appropriation of \$816,755,000 for Drug Interdiction and Counter-Drug Activities, Defense which will provide the following program in fiscal year 2020:

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS

[In thousands of dollars]

	Budget Request	Committee Recommended	Change from Request
COUNTER-NARCOTICS SUPPORT .....	581,739	517,171	-64,568
Transfer to National Guard Counter-Drug Program .....		-30,921	
Program decrease .....		-33,647	
DRUG DEMAND REDUCTION PROGRAM .....	120,922	121,922	1,000
Program increase—young Marines drug demand reduction .....		1,000	
NATIONAL GUARD COUNTER-DRUG PROGRAM .....	91,370	172,291	80,921
Transfer from Counter-narcotics Support .....		30,921	
Program increase .....		50,000	
NATIONAL GUARD COUNTER-DRUG SCHOOLS .....	5,371	5,371	0
TOTAL, DRUG INTERDICTION AND COUNTER DRUG ACTIVITIES, DE- FENSE .....	799,402	816,755	17,353

DRUG INTERDICTION AND COUNTER-DRUG ACTIVITIES

The Committee recommendation includes \$517,171,000 for Counter-Narcotics Support, the same as the fiscal year 2019 enacted level.

The Committee recommendation includes \$121,922,000 for the Drug Demand Reduction Program, including requested funding to add fentanyl to the list of drugs tested under this program.

The Committee recognizes the important role of the National Guard Counter-Drug program in assisting local and state agencies in addressing national drug-related challenges. The Committee encourages the administrators of the National Guard Counter-Drug program to continue their close coordination with communities, regions, and other organizations to help alleviate the national drug crisis.

The fiscal year 2020 request includes no funding, and the Committee recommendation includes no funding, to construct a border wall or fence (or any portion thereof) along the southern land border of the United States.

#### OFFICE OF THE INSPECTOR GENERAL

Fiscal year 2019 appropriation .....	\$329,273,000
Fiscal year 2020 budget request .....	363,499,000
Committee recommendation .....	363,499,000
Change from budget request .....	— — —

The Committee recommends an appropriation of \$363,499,000 for the Office of the Inspector General which will provide the following program in fiscal year 2020:

#### EXPLANATION OF PROJECT LEVEL ADJUSTMENTS

[In thousands of dollars]

	Budget Request	Committee Recommended	Change from Request
OPERATION AND MAINTENANCE .....	360,201	360,201	0
PROCUREMENT .....	333	333	0
RESEARCH, DEVELOPMENT, TEST AND EVALUATION .....	2,965	2,965	0
TOTAL, OFFICE OF THE INSPECTOR GENERAL .....	363,499	363,499	0

TITLE VII  
RELATED AGENCIES

NATIONAL AND MILITARY INTELLIGENCE PROGRAMS

The National Intelligence Program and the Military Intelligence Program budgets funded in the Department of Defense Appropriations Act consist primarily of resources for the Director of National Intelligence, including the Intelligence Community Management staff, the Central Intelligence Agency (CIA), the Defense Intelligence Agency, the National Reconnaissance Office, the National Security Agency, the National Geospatial-Intelligence Agency, the intelligence services of the Departments of the Army, Navy, and Air Force, and the CIA Retirement and Disability fund.

CLASSIFIED ANNEX

Adjustments to classified programs are addressed in a separate, detailed, and comprehensive classified annex. The Intelligence Community, the Department of Defense, and other organizations are expected to fully comply with the recommendations and directions in the classified annex accompanying the Department of Defense Appropriations Act, 2020.

CENTRAL INTELLIGENCE AGENCY RETIREMENT AND  
DISABILITY SYSTEM FUND

Fiscal year 2019 appropriation .....	\$514,000,000
Fiscal year 2020 budget request .....	514,000,000
Committee recommendation .....	514,000,000
Change from budget request .....	---

This appropriation provides payments of benefits to qualified beneficiaries in accordance with the Central Intelligence Agency Retirement Act of 1964 for Certain Employees (P.L. 88-643), as amended by Public Law 94-522. This statute authorized the establishment of the CIA Retirement and Disability System for certain employees and authorized the establishment and maintenance of a fund from which benefits would be paid to those beneficiaries.

The Committee recommends an appropriation of \$514,000,000 for the Central Intelligence Agency Retirement and Disability System Fund. This is a mandatory account.

INTELLIGENCE COMMUNITY MANAGEMENT ACCOUNT

Fiscal year 2019 appropriation .....	\$522,424,000
Fiscal year 2020 budget request .....	558,000,000
Committee recommendation .....	558,000,000
Change from budget request .....	---

The Committee recommends an appropriation of \$558,000,000 for the Intelligence Community Management Account.



## TITLE VIII

### GENERAL PROVISIONS

Title VIII of the accompanying bill includes 127 general provisions. A brief description of each provision follows.

Section 8001 provides that no funds made available in this Act may be used for publicity or propaganda purposes not authorized by Congress.

Section 8002 provides for conditions and limitations on the payment of compensation to, or employment of, foreign nationals.

Section 8003 provides that no funds made available in this Act may be obligated beyond the end of the fiscal year unless expressly provided for a greater period of availability elsewhere in the Act.

Section 8004 limits the obligation of certain funds provided in this Act during the last two months of the fiscal year.

Section 8005 has been amended and provides for the general transfer authority of funds to other military functions.

Section 8006 provides that the tables titled "Explanation of Project Level Adjustments" in the Committee report and classified annex shall be carried out in the manner provided by the tables to the same extent as if the tables were included in the text of this Act.

Section 8007 has been amended and provides for the establishment of a baseline for application of reprogramming and transfer authorities for the current fiscal year.

Section 8008 provides for limitations on the use of transfer authority of working capital fund cash balances.

Section 8009 provides that none of the funds appropriated in this Act may be used to initiate a special access program without prior notification to the congressional defense committees.

Section 8010 has been amended and provides limitations and conditions on the use of funds made available in this Act to initiate multiyear procurement contracts.

Section 8011 provides for the use and obligation of funds for humanitarian and civic assistance costs.

Section 8012 has been amended and provides that civilian personnel of the Department of Defense may not be managed on the basis of end strength or be subject to end strength limitations.

Section 8013 prohibits funding from being used to influence congressional action on any matters pending before the Congress.

Section 8014 prohibits compensation from being paid to any member of the Army who is participating as a full-time student and who receives benefits from the Education Benefits Fund when time spent as a full-time student is counted toward that member's service commitment.

Section 8015 provides for the transfer of funds appropriated in title III of this Act for the Department of Defense Pilot Mentor-Protege Program.

Section 8016 provides for the Department of Defense to purchase anchor and mooring chains manufactured only in the United States.

Section 8017 provides that no funds made available in this Act shall be used for the support of any nonappropriated funds activity of the Department of Defense that procures malt beverages and wine.

Section 8018 prohibits funds made available to the Department of Defense from being used to demilitarize or dispose of certain surplus firearms and small arms ammunition or ammunition components.

Section 8019 provides a limitation on funds being used for the relocation of any Department of Defense entity into or within the National Capital Region.

Section 8020 provides for incentive payments authorized by section 504 of the Indian Financing Act of 1974 (25 U.S.C. 1544).

Section 8021 provides that no funding for the Defense Media Activity may be used for national or international political or psychological activities.

Section 8022 provides for the obligation of funds for purposes specified in section 2350j(c) of title 10, United States Code, in anticipation of receipt of contributions from the Government of Kuwait.

Section 8023 has been amended and provides funding for the Civil Air Patrol Corporation.

Section 8024 has been amended and prohibits funding from being used to establish new Department of Defense Federally Funded Research and Development Centers (FFRDC), with certain limitations and increases funding provided for FFRDCs.

Section 8025 provides for the Department of Defense to procure carbon, alloy, or armor steel plate melted and rolled only in the United States and Canada.

Section 8026 defines the congressional defense committees as the Armed Services Committees of the House and Senate and the Subcommittees on Defense of the Committees on Appropriations of the House and Senate.

Section 8027 provides for competitions between private firms and Department of Defense depot maintenance activities.

Section 8028 has been amended and provides for the revocation of blanket waivers of the Buy American Act.

Section 8029 provides for the availability of funds contained in the Department of Defense Overseas Military Facility Investment Recovery Account.

Section 8030 provides for the conveyance, without consideration, of relocatable housing units that are excess to the needs of the Air Force.

Section 8031 provides authority to use operation and maintenance appropriations to purchase items having an investment item unit cost of not more than \$250,000.

Section 8032 prohibits the use of funds to disestablish, close, downgrade from host to extension center, or place on probation a Senior Reserve Officers' Training Corps.

Section 8033 has been amended and provides authority to use operation and maintenance appropriations for the Asia Pacific Regional Initiative Program.

Section 8034 prohibits the sale of tobacco products in military resale outlets below the most competitive price in the local community.

Section 8035 has been amended and prohibits the use of Working Capital Funds to purchase specified investment items.

Section 8036 has been amended and provides that none of the funds appropriated for the Central Intelligence Agency shall remain available for obligation beyond the current fiscal year except for funds appropriated for the Reserve for Contingencies, the Working Capital Fund, or other programs as specified.

Section 8037 provides for the availability of funds for the mitigation of environmental impacts on Indian lands resulting from Department of Defense activities.

Section 8038 requires the Department of Defense to comply with the Buy American Act, chapter 83 of title 41, United States Code.

Section 8039 places certain limitations on the use of funds made available in this Act to establish field operating agencies.

Section 8040 places restrictions on converting to contractor performance an activity or function of the Department of Defense unless it meets certain guidelines provided.

(RESCISSIONS)

Section 8041 has been amended and provides for the rescission of \$3,043,973,000 from the following programs:

2012 Appropriations:		
Shipbuilding and Conversion, Navy:		
DDG-51 Destroyer .....	\$86,000,000	
2013 Appropriations:		
Shipbuilding and Conversion, Navy:		
LCAC SLEP .....	2,000,000	
2018 Appropriations:		
Missile Procurement, Army:		
Indirect fire protection capability .....	14,056,000	
Procurement of Weapons and Tracked Combat Vehicles,		
Army:		
Paladin integrated management .....	97,000,000	
Other Procurement, Army:		
Area mine detection system .....	5,000,000	
Tractor Yard .....	5,685,000	
Aircraft Procurement, Navy:		
F/A-18 E/F .....	92,000,000	
C-40 .....	34,079,000	
Other Procurement, Navy:		
LCS class support equipment .....	24,977,000	
LPD class support equipment .....	9,110,000	
Procurement, Marine Corps:		
AAV7A1 PIP .....	9,046,000	
Aircraft Procurement, Air Force:		
KC-46A tanker .....	76,000,000	
KC-46 modifications .....	1,200,000	
C-130J modifications .....	83,000,000	
Other Procurement, Air Force:		
AFNET (ARAD) .....	26,000,000	

2019 Appropriations:	
Operation and Maintenance, Defense-Wide:	
Defense Security Cooperation Account .....	21,314,000
Aircraft Procurement, Army:	
Apache new build .....	58,600,000
Procurement of Weapons and Tracked Combat Vehicles, Army:	
Bradley program .....	87,567,000
Other Procurement, Army:	
Embedded crypto mod .....	3,520,000
Area mine detection system .....	5,797,000
Tractor Yard .....	4,956,000
Joint effects training system .....	60,900,000
Aircraft Procurement, Navy:	
F/A-18 E/F .....	236,000,000
Joint Strike Fighter STOVL AP .....	114,246,000
CH-53K (Heavy Lift) AP .....	53,693,000
F-18 series .....	36,974,000
H-1 series .....	9,250,000
T-45 series .....	10,520,000
V-22 (tilt/rotor acft) Osprey .....	24,314,000
MQ-4 series .....	16,619,000
Weapons Procurement, Navy:	
5/54" ammunition .....	22,000,000
Other Procurement, Navy:	
LCS class support equipment .....	10,351,000
CANES .....	23,313,000
Unmanned carrier aviation mission control station .....	11,300,000
Procurement, Marine Corps:	
AAV7A1 PIP .....	74,456,000
Aircraft Procurement, Air Force:	
KC-46A tanker .....	52,000,000
KC-46 modifications .....	8,500,000
Initial spares (KC-135) .....	2,200,000
C-17 (RHUD) .....	30,000,000
F-15C EPAWSS .....	67,200,000
F-15 modifications .....	124,000,000
F-16 modifications (AIFF mode 5) .....	36,000,000
A-10 .....	4,800,000
F-22 depot activation .....	30,000,000
MQ-9 spares .....	89,000,000
B-52 modifications .....	40,700,000
MC-130J AP .....	56,000,000
Other aircraft (BACN) .....	15,000,000
Aerial targets .....	48,000,000
Other aircraft (EW pod) .....	25,900,000
Missile Procurement, Air Force:	
MMIII modifications .....	39,100,000
MMIII support equipment .....	13,900,000
Hellfire .....	23,000,000
Space Procurement, Air Force:	
Evolved expendable launch vehicle (SPACE) .....	169,000,000
Evolved expendable launch capability .....	45,509,000
Procurement of Ammunition, Air Force:	
Massive ordnance penetrator .....	3,400,000
General purpose bombs (BLU-137) .....	71,800,000
JDAM .....	149,000,000
B61-12 TKA .....	11,900,000
Research, Development, Test and Evaluation, Army:	
Assured PNT .....	17,998,000
Missile warning system modernization .....	6,776,000
AMF joint tactical radio system .....	15,964,000
Other missile product improvement programs .....	4,450,000
Information systems security program .....	20,745,000
Research, Development, Test and Evaluation, Navy:	
Advanced tactical unmanned aircraft system .....	9,300,000
V-22A .....	28,651,000
Next generation jammer .....	81,000,000



Information technology development .....	6,300,000
Assessment and evals cyber vulnerabilities .....	14,640,000
Harpoon modifications .....	5,197,000
Classified program .....	95,000,000
Research, Development, Test and Evaluation, Air Force:	
KC-135 .....	3,400,000
MQ-9 .....	49,800,000
MEECN (NC3 dem/val) .....	5,000,000
ARM/ORD .....	10,000,000
Classified program .....	61,000,000
Classified program .....	2,000,000

Section 8042 prohibits funds made available in this Act from being used to reduce authorized positions for military technicians (dual status) of the Army National Guard, Air National Guard, Army Reserve, and Air Force Reserve unless such reductions are a direct result of a reduction in military force structure.

Section 8043 prohibits funding from being obligated or expended for assistance to the Democratic People's Republic of Korea unless specifically appropriated for that purpose.

Section 8044 provides for reimbursement to the National Guard and reserve when members of the National Guard and reserve provide intelligence or counterintelligence support to the combatant commands, defense agencies, and joint intelligence activities.

Section 8045 has been amended and prohibits the transfer of Department of Defense and Central Intelligence Agencies drug interdiction and counter-drug activity funds to other agencies.

Section 8046 prohibits funding from being used for the procurement of ball and roller bearings other than those produced by a domestic source and of domestic origin.

Section 8047 provides funding for Red Cross and United Services Organization grants.

Section 8048 prohibits funding from being used to purchase supercomputers which are not manufactured in the United States.

Section 8049 provides funds for the Small Business Innovation Research program and the Small Business Technology Transfer program.

Section 8050 prohibits funding from being used for contractor bonuses being paid due to business restructuring.

Section 8051 provides transfer authority for the pay of military personnel in connection with support and services for eligible organizations and activities outside the Department of Defense.

Section 8052 provides for the Department of Defense to dispose of negative unliquidated or unexpended balances for expired or closed accounts.

Section 8053 provides conditions for the use of equipment of the National Guard Distance Learning Project on a space-available, reimbursable basis.

Section 8054 provides funding for Sexual Assault Prevention and Response Programs.

Section 8055 provides for the limitation on the use of funds appropriated in title IV to procure end-items for delivery to military forces for operational training, operational use or inventory requirements.

Section 8056 provides for a waiver of "Buy American" provisions for certain cooperative programs.

Section 8057 prohibits funding in this Act from being used for repairs or maintenance to military family housing units.

Section 8058 has been amended and provides obligation authority for new starts for advanced concept technology demonstration projects only after notification to the congressional defense committees.

Section 8059 provides that the Secretary of Defense shall provide a classified quarterly report on certain matters as directed in the classified annex accompanying this Act.

Section 8060 provides for the use of National Guard personnel to support ground-based elements of the National Ballistic Missile Defense System.

Section 8061 prohibits the use of funds made available in this Act to transfer to any nongovernmental entity ammunition held by the Department of Defense that has a center-fire cartridge and is designated as "armor piercing" except for demilitarization purposes.

Section 8062 provides for a waiver by the Chief of the National Guard Bureau or his designee for all or part of consideration in cases of personal property leases of less than one year.

Section 8063 has been amended and provides for the transfer of funds made available in this Act under Operation and Maintenance, Army to other activities of the federal government for classified purposes.

Section 8064 prohibits funding to separate, or to consolidate from within, the National Intelligence Program budget from the Department of Defense budget.

Section 8065 has been amended and provides grant authority for the construction and furnishing of additional Fisher Houses to meet the needs of military family members when confronted with the illness or hospitalization of an eligible military beneficiary.

Section 8066 has been amended and prohibits the modification of command and control relationships to give Fleet Forces Command operational and administrative control of United States Navy forces assigned to the Pacific fleet.

Section 8067 requires that rapid acquisition authority notifications be provided to the Subcommittees on Defense of the Committees on Appropriations of the Senate and the House of Representatives concurrently with the Committees on Appropriations of the Senate and the House of Representatives as required under section 806(c)(4) of the Bob Stump National Defense Authorization Act for Fiscal Year 2003.

Section 8068 has been amended and provides funding and transfer authority for the Israeli Cooperative Programs.

Section 8069 has been amended and provides for the funding of prior year shipbuilding cost increases.

Section 8070 has been amended and provides that funds made available in this Act for intelligence activities are deemed to be specifically authorized by Congress for purposes of section 504 of the National Security Act of 1947 until the enactment of the Intelligence Authorization Act for the current fiscal year.

Section 8071 has been amended and prohibits funding from being used to initiate a new start program without prior written notification.

Section 8072 has been amended and provides that the budget of the President for the subsequent fiscal year shall include separate budget justification documents for costs of the United States Armed Forces' participation in contingency operations.

Section 8073 prohibits funding from being used for the research, development, test, evaluation, procurement, or deployment of nuclear armed interceptors of a missile defense system.

Section 8074 has been amended and makes funds available for transfer for the purposes of rapid acquisition and deployment of supplies and associated support services pursuant to section 806 of the Bob Stump National Defense Authorization Act for Fiscal Year 2003.

Section 8075 prohibits funding from being used to reduce or disestablish the operation of the 53rd Weather Reconnaissance Squadron of the Air Force Reserve.

Section 8076 prohibits funding from being used for the integration of foreign intelligence information unless the information has been lawfully collected and processed during conduct of authorized foreign intelligence activities.

Section 8077 prohibits funding from being used to transfer program authority relating to current tactical unmanned aerial vehicles from the Army and requires the Army to retain responsibility for and operational control of the MQ-1C Unmanned Aerial Vehicle.

Section 8078 has been amended and limits the availability of funding provided for the Office of the Director of National Intelligence beyond the current fiscal year, except for funds appropriated for research and technology, which shall remain available for the current and the following fiscal years.

Section 8079 provides limitations on the Shipbuilding and Conversion, Navy appropriation.

Section 8080 has been amended and provides for the establishment of a baseline for application of reprogramming and transfer authorities for the Office of the Director of National Intelligence for the current fiscal year.

Section 8081 places restrictions on the transfer of funds for support to friendly foreign countries in connection with the conduct of operations in which the United States is not participating.

Section 8082 has been amended and places limitations on the reprogramming of funds from the Defense Acquisition Workforce Development Fund.

Section 8083 prohibits funding from being used to violate the Child Soldiers Prevention Act of 2008.

Section 8084 provides for limitations on funding provided for the National Intelligence Program to be available for obligation or expenditure through a reprogramming or transfer of funds in accordance with section 102A(d) of the National Security Act of 1947 (50 U.S.C. 403-1(d)).

Section 8085 directs the Director of National Intelligence to submit a future-years intelligence program reflecting estimated expenditures and proposed appropriations.

Section 8086 defines the congressional intelligence committees as being the Permanent Select Committee on Intelligence of the House, the Select Committee on Intelligence of the Senate, and the

Subcommittees on Defense of the Committees on Appropriations of the House and Senate.

Section 8087 provides the authority to transfer funding from operation and maintenance accounts for the Army, Navy, and Air Force to the central fund for Fisher Houses and Suites.

Section 8088 prohibits the use of funds for the purpose of making remittances to the Defense Acquisition Workforce Development Fund.

Section 8089 provides that any agency receiving funds made available in this Act shall post on a public website any report required to be submitted to Congress with certain exceptions.

Section 8090 prohibits the use of funds for federal contracts in excess of \$1,000,000 unless the contractor agrees not to require, as a condition of employment, that employees or independent contractors agree to resolve through arbitration any claim or tort related to, or arising out of, sexual assault or harassment, including assault and battery, intentional infliction of emotional distress, false imprisonment, or negligent hiring, supervision, or retention, and to certify that each covered subcontractor agrees to do the same.

Section 8091 has been amended and provides funds for transfer to the Joint Department of Defense—Department of Veterans Affairs Medical Facility Demonstration Fund.

Section 8092 prohibits the use of funds providing certain missile defense information to certain entities.

Section 8093 provides for the purchase of heavy and light armed vehicles for the physical security of personnel or for force protection purposes up to a limit of \$450,000 per vehicle.

Section 8094 has been amended and provides the Director of National Intelligence with general transfer authority with certain limitations.

Section 8095 prohibits funding to transfer, release, or assist in the transfer or release to or within the United States of certain detainees. This language is identical to language enacted in Public Law 112–74.

Section 8096 prohibits funding to transfer any individual detained at Guantanamo Bay, Cuba to a country of origin or other foreign country or entity unless the Secretary of Defense makes certain certifications. This language is similar to language enacted in Public Law 112–239.

Section 8097 prohibits funding from being used to violate the War Powers Resolution Act.

Section 8098 prohibits funds from being used to enter into a contract, memorandum of understanding, or cooperative agreement with, make a grant to, or provide a loan or loan guarantee to Rosoboronexport, except under certain conditions.

Section 8099 prohibits the use of funds for the purchase or manufacture of a United States flag unless such flags are treated as covered items under section 2533a(b) of title 10, United States Code.

Section 8100 has been amended and provides that funds may be used to provide ex gratia payments to local military commanders for damage, personal injury, or death that is incident to combat operations in a foreign country.

Section 8101 directs the Secretary of Defense to post grant awards on a public Web site in a searchable format.

Section 8102 places restrictions on transfer amounts available in the Rapid Prototyping Fund.

Section 8103 prohibits the use of funds by the National Security Agency targeting United States persons under authorities granted in the Foreign Intelligence Surveillance Act.

Section 8104 prohibits the transfer of administrative or budgetary resources to the jurisdiction of another Federal agency not financed by this Act without the express authorization of Congress.

Section 8105 has been amended and provides that Operation and Maintenance Funds may be used for any purposes related to the National Defense Reserve Fleet.

Section 8106 prohibits the use of funds to provide counterterrorism support to foreign partners unless the congressional defense committees are notified accordingly.

Section 8107 prohibits the use of funds to contravene the War Powers Resolution with respect to Iraq.

Section 8108 has been amended and prohibits the use of funds to award a new TAO Fleet Oiler or FFG-Frigate program contract for the acquisition of certain components unless those components are manufactured in the United States.

Section 8109 prohibits certain transfers from the Department of Defense Acquisition Workforce Development Fund.

Section 8110 prohibits the use of funds for gaming or entertainment that involves nude entertainers.

Section 8111 is amended and prohibits funds to deliver F-35 aircraft to the Republic of Turkey.

Section 8112 has been amended and grants the Secretary of Defense the authority to use funds for Office of Personnel and Management background investigations.

Section 8113 prohibits the use of funding for information technology systems that do not have pornographic content filters.

Section 8114 places certain limitations on the transfer of funds for the Global Engagement Center.

Section 8115 makes funds available through the Office of Economic Adjustment for transfer to the Secretary of Education, to make grants to construct, renovate, repair, or expand elementary and secondary public schools on military installations.

Section 8116 provides guidance on the implementation of the Policy for Assisted Reproductive Services for the Benefit of Seriously or Severely Ill/Injured Active Duty Service Members.

Section 8117 prohibits the use of funds to provide arms, training, or other assistance to the Azov Battalion.

Section 8118 places restrictions on the use of funding for military parades.

Section 8119 is amended and provides for the use of funds to modify two F-35 Joint Strike Fighters per variant to a test configuration.

Section 8120 is amended and makes funds available in the Defense Health Program for death gratuity payments.

Section 8121 prohibits funds in the Act from being used to enter into a contract or provide a loan to any corporation that has any unpaid Federal tax liability.

Section 8122 prohibits funds in the Act from being used in contravention of Executive Order 13175 or section 1501.2(d)(2) of title 40, Code of Federal Regulations.

Section 8123 is new and provides for the availability of funds for certain programs through fiscal year 2024.

Section 8124 is new and provides that any advance billing for background investigation services and related services purchased from activities financed using the Defense Working Capital Fund shall be excluded from the calculation of cumulative advance billings.

Section 8125 is new and prohibits funds for the Space Development Agency and limits not more than 50 percent of funds for the Next Generation Overhead Persistent Infrared program unless certain conditions are met.

Section 8126 is new and prohibits funds from being used to transfer any element of the Intelligence Community to the Space Force.

Section 8127 is new and prohibits funds to construct a wall, fence, border barriers, or border security infrastructure along the southern land border of the United States.

TITLE IX  
OVERSEAS CONTINGENCY OPERATIONS/GLOBAL WAR ON  
TERRORISM

COMMITTEE RECOMMENDATION

In title IX, the Committee recommends total new appropriations of \$68,079,000,000. A detailed review of the Committee recommendation for programs funded in this title is provided in the following pages.

REPORTING REQUIREMENTS

The Committee recommendation includes a number of reporting requirements related to contingency operations and building capacity efforts. The Committee directs the Secretary of Defense to continue to report incremental costs for all named operations in the Central Command area of responsibility on a quarterly basis and to submit, also on a quarterly basis, commitment, obligation, and expenditure data for the Afghanistan Security Forces Fund, the Counter-Islamic State of Iraq and Syria Train and Equip Fund, and for all security cooperation programs funded under the Defense Security Cooperation Agency in the Operation and Maintenance, Defense-Wide account.

The Committee directs the Secretary of Defense to submit a report to the congressional defense committees not later than 90 days after the enactment of this Act on military actions being conducted pursuant to Public Law 107-40.

The Committee expects the Secretary of Defense to comply with section 1090 of Public Law 114-328 regarding the cost of wars in Afghanistan, Iraq, and Syria, and to post this information on the Department's public website in a timely manner.

MILITARY PERSONNEL

The Committee recommends an additional appropriation of \$4,485,808,000 for Military Personnel. The Committee recommendation for each military personnel account is as follows:

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS  
[In thousands of dollars]

M-1	Budget Request	Committee Recommended	Change from Request
<b>MILITARY PERSONNEL, ARMY</b>			
BA-1: PAY AND ALLOWANCES OF OFFICERS			
BASIC PAY	400,180	400,180	0
RETIRED PAY ACCRUAL	97,644	97,644	0
BASIC ALLOWANCE FOR HOUSING	121,906	121,906	0
BASIC ALLOWANCE FOR SUBSISTENCE	14,524	14,524	0
INCENTIVE PAYS	3,305	3,305	0
SPECIAL PAYS	24,905	24,905	0
ALLOWANCES	27,510	27,510	0
SEPARATION PAY	3,551	3,551	0
SOCIAL SECURITY TAX	30,600	30,600	0
TOTAL, BA-1	724,125	724,125	0
BA-2: PAY AND ALLOWANCES OF ENLISTED PERSONNEL			
BASIC PAY	833,570	833,570	0
RETIRED PAY ACCRUAL	203,392	203,392	0
BASIC ALLOWANCE FOR HOUSING	331,542	331,542	0
INCENTIVE PAYS	2,024	2,024	0
SPECIAL PAYS	76,026	76,026	0
ALLOWANCES	61,647	61,647	0
SEPARATION PAY	1,009	1,009	0
SOCIAL SECURITY TAX	63,769	63,769	0
TOTAL, BA-2	1,572,979	1,572,979	0
BA-4: SUBSISTENCE OF ENLISTED PERSONNEL			
BASIC ALLOWANCE FOR SUBSISTENCE	94,192	94,192	0
SUBSISTENCE-IN-KIND	308,078	308,078	0
TOTAL, BA-4	402,270	402,270	0
BA-5: PERMANENT CHANGE OF STATION TRAVEL			
OPERATIONAL TRAVEL	4,256	4,256	0
ROTATIONAL TRAVEL	1,028	1,028	0
TEMPORARY LODGING EXPENSE	119	119	0
TOTAL, BA-5	5,403	5,403	0
BA-6: OTHER MILITARY PERSONNEL COSTS			
INTEREST ON UNIFORMED SERVICES SAVINGS	4,054	4,054	0
DEATH GRATUITIES	2,800	2,800	0
UNEMPLOYMENT BENEFITS	21,703	21,703	0
SGLI EXTRA HAZARD PAYMENTS	9,798	9,798	0
TOTAL, BA-6	38,355	38,355	0
<b>TOTAL, MILITARY PERSONNEL, ARMY</b>	<b>2,743,132</b>	<b>2,743,132</b>	<b>0</b>



M-1	Budget Request	Committee Recommended	Change from Request
<b>MILITARY PERSONNEL, NAVY</b>			
BA-1: PAY AND ALLOWANCES OF OFFICERS			
BASIC PAY	68,443	68,443	0
RETIRED PAY ACCRUAL	16,700	16,700	0
BASIC ALLOWANCE FOR HOUSING	23,102	23,102	0
BASIC ALLOWANCE FOR SUBSISTENCE	2,256	2,256	0
INCENTIVE PAYS	464	464	0
SPECIAL PAYS	3,998	3,998	0
ALLOWANCES	6,868	6,868	0
SOCIAL SECURITY TAX	5,245	5,245	0
TOTAL, BA-1	127,076	127,076	0
BA-2: PAY AND ALLOWANCES OF ENLISTED PERSONNEL			
BASIC PAY	83,786	83,786	0
RETIRED PAY ACCRUAL	20,443	20,443	0
BASIC ALLOWANCE FOR HOUSING	45,506	45,506	0
INCENTIVE PAYS	161	161	0
SPECIAL PAYS	9,288	9,288	0
ALLOWANCES	15,668	15,668	0
SOCIAL SECURITY TAX	6,410	6,410	0
TOTAL, BA-2	181,262	181,262	0
BA-4: SUBSISTENCE OF ENLISTED PERSONNEL			
BASIC ALLOWANCE FOR SUBSISTENCE	9,057	9,057	0
SUBSISTENCE-IN-KIND	23,095	23,095	0
TOTAL, BA-4	32,152	32,152	0
BA-5: PERMANENT CHANGE OF STATION TRAVEL			
ACCESSION TRAVEL	3,151	3,151	0
OPERATIONAL TRAVEL	698	698	0
ROTATIONAL TRAVEL	223	223	0
SEPARATION TRAVEL	4,516	4,516	0
TOTAL, BA-5	8,588	8,588	0
BA-6: OTHER MILITARY PERSONNEL COSTS			
UNEMPLOYMENT BENEFITS	3,654	3,654	0
SGLI EXTRA HAZARD PAYMENTS	3,660	3,660	0
TOTAL, BA-6	7,314	7,314	0
<b>TOTAL, MILITARY PERSONNEL, NAVY</b>	<b>356,392</b>	<b>356,392</b>	<b>0</b>
<b>MILITARY PERSONNEL, MARINE CORPS</b>			
BA-1: PAY AND ALLOWANCES OF OFFICERS			
BASIC PAY	22,993	22,993	0
RETIRED PAY ACCRUAL	5,610	5,610	0
BASIC ALLOWANCE FOR HOUSING	8,142	8,142	0
BASIC ALLOWANCE FOR SUBSISTENCE	764	764	0
INCENTIVE PAYS	238	238	0
SPECIAL PAYS	2,382	2,382	0
ALLOWANCES	2,859	2,859	0

M-1	Budget Request	Committee Recommended	Change from Request
SEPARATION PAY	878	878	0
SOCIAL SECURITY TAX	1,759	1,759	0
TOTAL, BA-1	45,625	45,625	0
BA-2: PAY AND ALLOWANCES OF ENLISTED PERSONNEL			
BASIC PAY	22,994	22,994	0
RETIRED PAY ACCRUAL	5,611	5,611	0
BASIC ALLOWANCE FOR HOUSING	12,502	12,502	0
INCENTIVE PAYS	5	5	0
SPECIAL PAYS	5,284	5,284	0
ALLOWANCES	6,268	6,268	0
SEPARATION PAY	877	877	0
SOCIAL SECURITY TAX	1,759	1,759	0
TOTAL, BA-2	55,300	55,300	0
BA-4: SUBSISTENCE OF ENLISTED PERSONNEL			
BASIC ALLOWANCE FOR SUBSISTENCE	2,635	2,635	0
TOTAL, BA-4	2,635	2,635	0
BA-6: OTHER MILITARY PERSONNEL COSTS			
INTEREST ON UNIFORMED SERVICES SAVINGS	238	238	0
SGLI EXTRA HAZARD PAYMENTS	415	415	0
TOTAL, BA-6	653	653	0
<b>TOTAL, MILITARY PERSONNEL, MARINE CORPS</b>	<b>104,213</b>	<b>104,213</b>	<b>0</b>
<b>MILITARY PERSONNEL, AIR FORCE</b>			
BA-1: PAY AND ALLOWANCES OF OFFICERS			
BASIC PAY	127,838	127,838	0
RETIRED PAY ACCRUAL	31,197	31,197	0
BASIC ALLOWANCE FOR HOUSING	35,863	35,863	0
BASIC ALLOWANCE FOR SUBSISTENCE	3,919	3,919	0
SPECIAL PAYS	8,364	8,364	0
ALLOWANCES	4,788	4,788	0
SOCIAL SECURITY TAX	9,780	9,780	0
TOTAL, BA-1	221,749	221,749	0
BA-2: PAY AND ALLOWANCES OF ENLISTED PERSONNEL			
BASIC PAY	326,053	326,053	0
RETIRED PAY ACCRUAL	79,557	79,557	0
BASIC ALLOWANCE FOR HOUSING	137,589	137,589	0
SPECIAL PAYS	28,895	28,895	0
ALLOWANCES	18,225	18,225	0
SOCIAL SECURITY TAX	24,943	24,943	0
TOTAL, BA-2	615,262	615,262	0

M-1	Budget Request	Committee Recommended	Change from Request
BA-4: SUBSISTENCE OF ENLISTED PERSONNEL			
BASIC ALLOWANCE FOR SUBSISTENCE	33,640	33,640	0
SUBSISTENCE-IN-KIND	117,601	117,601	0
TOTAL, BA-4	151,241	151,241	0
BA-6: OTHER MILITARY PERSONNEL COSTS			
DEATH GRATUITIES	700	700	0
UNEMPLOYMENT BENEFITS	11,653	11,653	0
SGLI EXTRA HAZARD PAYMENTS	6,989	6,989	0
TOTAL, BA-6	19,342	19,342	0
TOTAL, MILITARY PERSONNEL, AIR FORCE	1,007,594	1,007,594	0
RESERVE PERSONNEL, ARMY			
BA-1: UNIT AND INDIVIDUAL TRAINING			
SPECIAL TRAINING	34,812	34,812	0
TOTAL, BA-1	34,812	34,812	0
TOTAL, RESERVE PERSONNEL, ARMY	34,812	34,812	0
RESERVE PERSONNEL, NAVY			
BA-1: UNIT AND INDIVIDUAL TRAINING			
SPECIAL TRAINING	11,370	11,370	0
TOTAL, BA-1	11,370	11,370	0
TOTAL, RESERVE PERSONNEL, NAVY	11,370	11,370	0
RESERVE PERSONNEL, MARINE CORPS			
BA-1: UNIT AND INDIVIDUAL TRAINING			
SPECIAL TRAINING	3,552	3,552	0
ADMINISTRATION AND SUPPORT	47	47	0
TOTAL, BA-1	3,599	3,599	0
TOTAL, RESERVE PERSONNEL, MARINE CORPS	3,599	3,599	0
RESERVE PERSONNEL, AIR FORCE			
BA-1: UNIT AND INDIVIDUAL TRAINING			
SPECIAL TRAINING	16,428	16,428	0
TOTAL, BA-1	16,428	16,428	0
TOTAL, RESERVE PERSONNEL, AIR FORCE	16,428	16,428	0

M-1	Budget Request	Committee Recommended	Change from Request
NATIONAL GUARD PERSONNEL, ARMY			
BA-1: UNIT AND INDIVIDUAL TRAINING			
PAY GROUP A TRAINING (15 DAYS and DRILLS 24/48)	65,231	65,231	0
SCHOOL TRAINING	3,324	3,324	0
SPECIAL TRAINING	115,437	115,437	0
ADMINISTRATION AND SUPPORT	18,652	18,652	0
TOTAL, BA-1	202,644	202,644	0
TOTAL, NATIONAL GUARD PERSONNEL, ARMY	202,644	202,644	0
NATIONAL GUARD PERSONNEL, AIR FORCE			
BA-1: UNIT AND INDIVIDUAL TRAINING			
SPECIAL TRAINING	5,624	5,624	0
TOTAL, BA-1	5,624	5,624	0
TOTAL, NATIONAL GUARD PERSONNEL, AIR FORCE	5,624	5,624	0
TOTAL, MILITARY PERSONNEL	4,485,808	4,485,808	0

OPERATION AND MAINTENANCE

The Committee recommends an additional appropriation of \$49,772,124,000 for Operation and Maintenance. The Committee recommendation for each operation and maintenance account is as follows:

EXPLANATION OF PROJECT TABLES  
[In thousands of dollars]

O-1	Budget Request	Committee Recommended	Change from Request
<b>OPERATION AND MAINTENANCE, ARMY</b>			
111 MANEUVER UNITS Transfer to title II	3,146,796	1,410,874 -1,735,922	-1,735,922
112 MODULAR SUPPORT BRIGADES Transfer to title II	127,815	0 -127,815	-127,815
113 ECHELONS ABOVE BRIGADE Transfer to title II	742,858	26,502 -716,356	-716,356
114 THEATER LEVEL ASSETS Transfer to title II Unjustified growth	3,165,381	2,259,490 -890,891 -15,000	-905,891
115 LAND FORCES OPERATIONS SUPPORT Transfer to title II	1,368,765	136,288 -1,232,477	-1,232,477
116 AVIATION ASSETS Transfer to title II	1,655,846	300,240 -1,355,606	-1,355,606
121 FORCE READINESS OPERATIONS SUPPORT Insufficient justification Transfer to title II	6,889,293	3,410,009 -5,000 -3,474,284	-3,479,284
122 LAND FORCES SYSTEMS READINESS	29,985	29,985	0
123 LAND FORCES DEPOT MAINTENANCE Transfer to title II	1,720,258	86,931 -1,633,327	-1,633,327
131 BASE OPERATIONS SUPPORT Insufficient justification Transfer to title II	8,163,639	113,606 -2,100 -8,047,933	-8,050,033
132 FACILITIES SUSTAINMENT, RESTORATION AND MODERNIZATION	72,657	72,657	0
135 ADDITIONAL ACTIVITIES Insufficient justification Excess growth	6,397,586	6,359,586 -30,000 -8,000	-38,000
136 COMMANDERS EMERGENCY RESPONSE PROGRAM	5,000	5,000	0
137 RESET Insufficient justification	1,048,896	1,046,396 -2,500	-2,500
141 US AFRICA COMMAND	203,174	203,174	0
142 US EUROPEAN COMMAND Insufficient justification	173,676	170,876 -2,800	-2,800

O-1	Budget Request	Committee Recommended	Change from Request
151 CYBERSPACE ACTIVITIES - CYBERSPACE Insufficient justification	188,529	0 -188,529	-188,529
153 CYBERSPACE ACTIVITIES - CYBERSECURITY Insufficient justification	5,682	0 -5,682	-5,682
212 ARMY PREPOSITIONED STOCK	131,954	131,954	0
421 SERVICEWIDE TRANSPORTATION	721,014	721,014	0
422 CENTRAL SUPPLY ACTIVITIES	66,845	66,845	0
423 LOGISTICS SUPPORT ACTIVITIES	9,309	9,309	0
424 AMMUNITION MANAGEMENT	23,653	23,653	0
434 OTHER PERSONNEL SUPPORT	109,019	109,019	0
437 REAL ESTATE MANAGEMENT Insufficient justification	251,355	245,855 -5,500	-5,500
411 OTHER PROGRAMS	1,568,564	1,568,564	0
<b>TOTAL, OPERATION AND MAINTENANCE, ARMY</b>	<b>37,987,549</b>	<b>18,507,827</b>	<b>-19,479,722</b>
<b>OPERATION AND MAINTENANCE, NAVY</b>			
1A1A MISSION AND OTHER FLIGHT OPERATIONS Transfer to title II	5,682,156	373,047 -5,309,109	-5,309,109
1A3A AVIATION TECHNICAL DATA & ENGINEERING SVCS Transfer to title II	60,115	816 -59,299	-59,299
1A4A AIR OPERATIONS AND SAFETY SUPPORT	9,582	9,582	0
1A4N AIR SYSTEMS SUPPORT	197,262	197,262	0
1A5A AIRCRAFT DEPOT MAINTENANCE Transfer to title II	1,322,427	168,246 -1,154,181	-1,154,181
1A6A AIRCRAFT DEPOT OPERATIONS SUPPORT	3,594	3,594	0
1A9A AVIATION LOGISTICS	10,618	10,618	0
1B1B MISSION AND OTHER SHIP OPERATIONS Transfer to title II	5,582,370	1,485,108 -4,097,262	-4,097,262
1B2B SHIP OPERATIONS SUPPORT & TRAINING	20,334	20,334	0
1B5B SHIP DEPOT MAINTENANCE Transfer to title II	10,426,913	2,365,615 -8,061,298	-8,061,298
1B5B SHIP DEPOT OPERATIONS SUPPORT Transfer to title II	2,073,641	0 -2,073,641	-2,073,641

O-1	Budget Request	Committee Recommended	Change from Request
1C1C COMBAT COMMUNICATIONS	58,092	58,092	0
1C3C SPACE SYSTEMS AND SURVEILLANCE	18,000	18,000	0
1C4C WARFARE TACTICS	16,984	16,984	0
1C5C OPERATIONAL METEOROLOGY AND OCEANOGRAPHY	29,382	29,382	0
1C6C COMBAT SUPPORT FORCES	608,870	608,870	0
1C7C EQUIPMENT MAINTENANCE AND DEPOT OPERATIONS	7,799	7,799	0
1CCM COMBATANT COMMANDERS DIRECT MISSION	24,800	24,800	0
1CCY CYBERSPACE ACTIVITIES	363	363	0
1D4D WEAPONS MAINTENANCE	486,188	486,188	0
1D7D OTHER WEAPON SYSTEMS SUPPORT	12,189	12,189	0
BSM1 FSRM	68,667	68,667	0
BSS1 BASE OPERATING SUPPORT Transfer to title II	4,634,042	219,099 -4,414,943	-4,414,943
2C1H EXPEDITIONARY HEALTH SERVICES SYSTEMS	17,580	17,580	0
2C3H COAST GUARD SUPPORT	190,000	190,000	0
3B1K SPECIALIZED SKILL TRAINING	52,161	52,161	0
4A1M ADMINISTRATION	8,475	8,475	0
4A4M MILITARY MANPOWER AND PERSONNEL	7,653	7,653	0
4B1N SERVICEWIDE TRANSPORTATION	70,683	70,683	0
4B3N ACQUISITION AND PROGRAM MANAGEMENT	11,130	11,130	0
INVESTIGATIVE AND SECURITY SERVICES	1,559	1,559	0
4C0P OTHER PROGRAMS Transfer to title II	21,054	17,754 -3,300	-3,300
<b>TOTAL, OPERATION AND MAINTENANCE, NAVY</b>	<b>31,734,683</b>	<b>6,561,650</b>	<b>-25,173,033</b>
<b>OPERATION AND MAINTENANCE, MARINE CORPS</b>			
1A1A OPERATIONAL FORCES Transfer to title II	1,682,877	714,653 -968,224	-968,224
1A2A FIELD LOGISTICS	232,508	232,508	0



O-1	Budget Request	Committee Recommended	Change from Request
1A3A DEPOT MAINTENANCE Transfer to title II	287,092	54,101 -232,991	-232,991
1B1B MARITIME PREPOSITIONING Transfer to title II	100,396	0 -100,396	-100,396
1CCY CYBERSPACE ACTIVITIES	2,000	2,000	0
BSM1 SUSTAINMENT, RESTORATION & MODERNIZATION Transfer to title II	443,292	0 -443,292	-443,292
BSS1 BASE OPERATING SUPPORT Transfer to title II	2,278,346	24,570 -2,253,776	-2,253,776
3B4D TRAINING SUPPORT	30,459	30,459	0
4A3G SERVICEWIDE TRANSPORTATION	61,400	61,400	0
4A7G OTHER PROGRAMS	5,100	5,100	0
<b>TOTAL, OPERATION AND MAINTENANCE, MARINE CORPS</b>	<b>5,123,470</b>	<b>1,124,791</b>	<b>-3,998,679</b>
<b>OPERATION AND MAINTENANCE, AIR FORCE</b>			
11A PRIMARY COMBAT FORCES	163,632	163,632	0
11C COMBAT ENHANCEMENT FORCES	1,049,170	1,049,170	0
11D AIR OPERATIONS TRAINING	111,808	111,808	0
11M DEPOT MAINTENANCE Transfer to title II	3,743,491	408,699 -3,334,792	-3,334,792
11R REAL PROPERTY MAINTENANCE Transfer to title II Unjustified growth	613,875	137,264 -466,611 -10,000	-476,611
11V CYBERSPACE SUSTAINMENT Transfer to title II	238,872	10,061 -228,811	-228,811
11W CONTRACTOR LOGISTICS SUPPORT AND SYSTEM Transfer to title II	9,282,958	953,594 -8,329,364	-8,329,364
11Y FLYING HOUR PROGRAM Transfer to title II	6,544,039	2,495,266 -4,048,773	-4,048,773
11Z BASE OPERATING SUPPORT Transfer to title II Unjustified growth	8,762,102	1,488,120 -7,223,982 -50,000	-7,273,982
12A GLOBAL C3I AND EARLY WARNING	13,863	13,863	0

O-1	Budget Request	Committee Recommended	Change from Request
12C OTHER COMBAT OPS SPT PROGRAMS Unjustified growth	272,020	250,020 -22,000	-22,000
12D CYBERSPACE ACTIVITIES	17,657	17,657	0
12F TACTICAL INTEL AND OTHER SPECIAL ACTIVITIES	36,098	36,098	0
13A LAUNCH FACILITIES	391	391	0
13C SPACE CONTROL SYSTEMS	39,990	39,990	0
15C US NORTHCOM/NORAD	725	725	0
15D US STRATCOM	926	926	0
15E US CYBERCOM	35,189	35,189	0
15F US CENTCOM	163,015	163,015	0
15G US SOCOM	19,000	19,000	0
21A AIRLIFT OPERATIONS	1,271,439	1,271,439	0
21D MOBILIZATION PREPAREDNESS	109,682	109,682	0
31A OFFICER ACQUISITION	200	200	0
31B RECRUIT TRAINING	352	352	0
32A SPECIALIZED SKILL TRAINING	26,802	26,802	0
32B FLIGHT TRAINING	844	844	0
32C PROFESSIONAL DEVELOPMENT EDUCATION	1,199	1,199	0
32D TRAINING SUPPORT	1,320	1,320	0
41A LOGISTICS OPERATIONS	164,701	164,701	0
41B TECHNICAL SUPPORT ACTIVITIES	11,608	11,608	0
42A ADMINISTRATION	4,814	4,814	0
42B SERVICEWIDE COMMUNICATIONS	145,204	145,204	0
42G OTHER SERVICEWIDE ACTIVITIES	98,841	98,841	0
44A INTERNATIONAL SUPPORT	29,890	29,890	0
43A OTHER PROGRAMS	52,995	52,995	0
TOTAL, OPERATION AND MAINTENANCE, AIR FORCE	33,028,712	9,314,379	-23,714,333

O-1	Budget Request	Committee Recommended	Change from Request
OPERATION AND MAINTENANCE, DEFENSE-WIDE			
1PL1 JOINT CHIEFS OF STAFF	21,866	21,866	0
8PL1 JOINT CHIEFS OF STAFF CE2T2	6,634	6,634	0
1PL6 SPECIAL OPERATIONS COMMAND COMBAT DEVELOPMENT ACTIVITIES Classified adjustment	1,121,580	1,111,580 -10,000	-10,000
1PLU SPECIAL OPERATIONS COMMAND INTELLIGENCE	1,328,201	1,328,201	0
1PL7 SPECIAL OPERATIONS COMMAND MAINTENANCE	399,845	399,845	0
1PLV SPECIAL OPERATIONS COMMAND OPERATIONAL SUPPORT Projected underexecution - Communications	138,458	102,958 -35,500	-35,500
1PLR SPECIAL OPERATIONS COMMAND THEATER FORCES Projected underexecution - Section 1202	808,729	806,729 -2,000	-2,000
4GT6 DEFENSE CONTRACT AUDIT AGENCY	1,810	1,810	0
4GTO DEFENSE CONTRACT MANAGEMENT AGENCY	21,723	21,723	0
4GT9 DEFENSE INFORMATION SYSTEMS AGENCY	81,133	81,133	0
4GU9 DEFENSE INFORMATION SYSTEMS AGENCY - CYBER	3,455	3,455	0
4GTA DEFENSE LEGAL SERVICES AGENCY	196,124	196,124	0
ES18 DEFENSE MEDIA ACTIVITY	14,377	14,377	0
4GTD DEFENSE SECURITY COOPERATION AGENCY	1,927,217	1,614,178	-313,039
Coalition Support Fund	450,000	450,000	0
Lift and Sustain	150,000	150,000	0
Ministry of Defense Advisors Program - Afghanistan	15,000	15,000	0
Security Cooperation Account	811,968	749,178	-62,790
AFRICOM allotment	167,399	167,399	0
CENTCOM allotment - program adjustment	205,016	185,016	-20,000
EUCOM allotment - program adjustment	247,053	229,513	-17,540
INDOPACOM allotment - program adjustment	179,500	154,250	-25,250
Support Costs	13,000	13,000	0
Ukraine Security Assistance Initiative	250,000	250,000	0
Marshall Center Outreach - program adjustment	249	0	-249
Border Security - funded in CTEF account	250,000	0	-250,000

O-1	Budget Request	Committee Recommended	Change from Request
4GTI DEFENSE THREAT REDUCTION AGENCY	317,558	317,558	0
4GTJ DEPARTMENT OF DEFENSE EDUCATION AGENCY	31,620	31,620	0
4GTN OFFICE OF THE SECRETARY OF DEFENSE	16,666	16,666	0
4GTQ WASHINGTON HEADQUARTERS SERVICES	6,331	6,331	0
999 OTHER PROGRAMS	2,005,285	2,022,418	17,133
Classified adjustment		97,633	
Transfer to title II		-80,500	
<b>TOTAL, OPERATION AND MAINTENANCE, DEFENSE- WIDE</b>	<b>8,448,612</b>	<b>8,105,206</b>	<b>-343,406</b>
<b>OPERATION AND MAINTENANCE, ARMY RESERVE</b>			
112 MODULAR SUPPORT BRIGADES	11,927	0	-11,927
Transfer to title II		-11,927	
113 ECHELONS ABOVE BRIGADE	553,455	20,440	-533,015
Transfer to title II		-533,015	
114 THEATER LEVEL ASSETS	119,517	0	-119,517
Transfer to title II		-119,517	
115 LAND FORCES OPERATIONS SUPPORT	550,468	0	-550,468
Transfer to title II		-550,468	
116 AVIATION ASSETS	86,670	0	-86,670
Transfer to title II		-86,670	
121 FORCES READINESS OPERATIONS SUPPORT	689	689	0
123 LAND FORCES DEPOT MAINTENANCE	48,503	0	-48,503
Transfer to title II		-48,503	
131 BASE OPERATIONS SUPPORT	615,370	16,463	-598,907
Transfer title II		-598,907	
<b>TOTAL, OPERATION AND MAINTENANCE, ARMY RESERVE</b>	<b>1,986,599</b>	<b>37,592</b>	<b>-1,949,007</b>

O-1	Budget Request	Committee Recommended	Change from Request
<b>OPERATION AND MAINTENANCE, NAVY RESERVE</b>			
1A1A MISSION AND OTHER FLIGHT OPERATIONS	654,220	0	-654,220
Transfer to title II		-654,220	
1A3A INTERMEDIATE MAINTENANCE	510	510	0
1A5A AIRCRAFT DEPOT MAINTENANCE	119,864	11,628	-108,236
Transfer to title II		-108,236	
1C6C COMBAT SUPPORT FORCES	10,898	10,898	0
BSSR BASE OPERATING SUPPORT	101,376	0	-101,376
Transfer to title II		-101,376	
<b>TOTAL, OPERATION AND MAINTENANCE, NAVY RESERVE</b>	<b>886,868</b>	<b>23,036</b>	<b>-863,832</b>
<b>OPERATION AND MAINTENANCE, MARINE CORPS RESERVE</b>			
1A1A OPERATING FORCES	114,111	7,627	-106,484
Transfer to title II		-106,484	
1A3A DEPOT MAINTENANCE	18,429	0	-18,429
Transfer to title II		-18,429	
BSS1 BASE OPERATING SUPPORT	107,153	1,080	-106,073
Transfer to title II		-106,073	
<b>TOTAL, OPERATION &amp; MAINTENANCE, MARINE CORPS RESERVE</b>	<b>239,693</b>	<b>8,707</b>	<b>-230,986</b>
<b>OPERATION AND MAINTENANCE, AIR FORCE RESERVE</b>			
11M DEPOT MAINTENANCE	518,423	24,188	-494,235
Transfer to title II		-494,235	
11W CONTRACTOR LOGISTICS SUPPORT AND SYSTEM	256,512	0	-256,512
Transfer to title II		-256,512	
11Z BASE OPERATING SUPPORT	420,196	5,570	-414,626
Transfer to title II		-414,626	
<b>TOTAL, OPERATION AND MAINTENANCE, AIR FORCE RESERVE</b>	<b>1,195,131</b>	<b>29,758</b>	<b>-1,165,373</b>
<b>OPERATION AND MAINTENANCE, ARMY NATIONAL GUARD</b>			
111 MANEUVER UNITS	851,567	45,896	-805,671
Transfer to title II		-805,671	
112 MODULAR SUPPORT BRIGADES	195,514	180	-195,334
Transfer to title II		-195,334	

O-1	Budget Request	Committee Recommended	Change from Request
113 ECHELONS ABOVE BRIGADE Transfer to title II	774,030	2,982 -771,048	-771,048
114 THEATER LEVEL ASSETS Transfer to title II	95,274	548 -94,726	-94,726
115 LAND FORCES OPERATIONS SUPPORT Transfer to title II	33,696	0 -33,696	-33,696
116 AVIATION ASSETS Transfer to title II	991,048	9,229 -981,819	-981,819
121 FORCE READINESS OPERATIONS SUPPORT	1,584	1,584	0
123 LAND FORCES DEPOT MAINTENANCE Transfer to title II	258,278	0 -258,278	-258,278
131 BASE OPERATIONS SUPPORT Transfer to title II	1,175,139	22,063 -1,153,076	-1,153,076
133 MANAGEMENT AND OPERATIONAL HQ	606	606	0
432 SERVICEWIDE COMMUNICATIONS	203	203	0
<b>TOTAL, OPERATION &amp; MAINTENANCE, ARMY NATIONAL GUARD</b>	<b>4,376,939</b>	<b>83,291</b>	<b>-4,293,648</b>
<b>OPERATION AND MAINTENANCE, AIR NATIONAL GUARD</b>			
11G MISSION SUPPORT OPERATIONS	3,666	3,666	0
11M DEPOT MAINTENANCE Transfer to title II	946,411	66,944 -879,467	-879,467
11W CONTRACTOR LOGISTICS SUPPORT AND SYSTEM Transfer to title II	1,392,709	93,620 -1,299,089	-1,299,089
11Z BASE SUPPORT Transfer to title II	924,454	12,679 -911,775	-911,775
11V CYBERSPACE SUSTAINMENT Transfer to title II	24,742	0 -24,742	-24,742
<b>TOTAL, OPERATION &amp; MAINTENANCE, AIR NATIONAL GUARD</b>	<b>3,291,982</b>	<b>176,909</b>	<b>-3,115,073</b>
<b>AFGHANISTAN SECURITY FORCES FUND</b>			
Afghan National Army	1,589,658	1,589,658	0
Sustainment	1,313,047	1,313,047	
Infrastructure	37,152	37,152	
Equipment and Transportation	120,868	120,868	
Training and Operations	118,591	118,591	

O-1	Budget Request	Committee Recommended	Change from Request
<b>Afghan National Police</b>	<b>660,357</b>	<b>660,357</b>	<b>0</b>
Sustainment	422,806	422,806	
Infrastructure	2,358	2,358	
Equipment and Transportation	127,081	127,081	
Training and Operations	108,112	108,112	
<b>Afghan Air Force</b>	<b>1,825,515</b>	<b>1,825,515</b>	<b>0</b>
Sustainment	893,829	893,829	
Infrastructure	8,611	8,611	
Equipment and Transportation	566,967	566,967	
Training and Operations	356,108	356,108	
<b>Afghan Special Security Forces</b>	<b>728,448</b>	<b>728,448</b>	<b>0</b>
Sustainment	437,909	437,909	
Infrastructure	21,131	21,131	
Equipment and Transportation	153,806	153,806	
Training and Operations	115,602	115,602	
<b>Undistributed Adjustment</b>		<b>-300,000</b>	<b>-300,000</b>
<b>TOTAL, AFGHANISTAN SECURITY FORCES FUND</b>	<b>4,803,978</b>	<b>4,503,978</b>	<b>-300,000</b>
<b>COUNTER-ISIS TRAIN AND EQUIP FUND</b>			
<b>Iraq</b>	<b>745,000</b>	<b>745,000</b>	<b>0</b>
<b>Syria</b>	<b>300,000</b>	<b>300,000</b>	<b>0</b>
<b>Border Security - transfer from DSCA</b>		<b>250,000</b>	<b>250,000</b>
<b>TOTAL, COUNTER-ISIS TRAIN AND EQUIP FUND</b>	<b>1,045,000</b>	<b>1,295,000</b>	<b>250,000</b>
<b>TOTAL, OPERATION AND MAINTENANCE</b>	<b>134,149,216</b>	<b>49,772,124</b>	<b>-84,377,092</b>

## AFGHANISTAN SECURITY FORCES FUND

The Committee recommends an appropriation of \$4,503,978,000 for the Afghanistan Security Forces Fund.

The Committee recognizes the sacrifices made by the members of the Afghanistan Security Forces. The Committee is concerned, however, that measures designed to reduce corruption and fraud in the pay system have not been fully implemented. The Committee recommendation fully funds the request for the Afghan Personnel and Pay System and includes language under this heading prohibiting funds to support personnel who have not enrolled. The recommendation also supports the use of identification cards and biometrics to prevent fraud.

The Committee directs the Secretary of Defense to submit a report to the congressional defense committees not later than 90 days after the enactment of this Act on efforts to reduce corruption in the Afghanistan Security Forces, including through the use of programs and technologies funded under this heading.

The Committee recommendation does not include the authority or requested funding to provide certain types of support for reconciliation activities, and section 9022 prohibits funds from being used to pay the expenses of any member of the Taliban to participate in any meeting that does not include the participation of members of the Government of Afghanistan or that restricts the participation of women. Additionally, no funds in this Act for assistance for Afghanistan should be made available for any member of the Taliban unless a peace agreement is reached that promotes United States national security interests, includes the democratically elected Afghan government, and protects the rights of Afghan women.

## COUNTER-ISLAMIC STATE OF IRAQ AND SYRIA TRAIN AND EQUIP FUND

The Committee recommends an appropriation of \$1,295,000,000 for the Counter-Islamic State of Iraq and Syria (ISIS) Train and Equip Fund.

The Committee recognizes the gains made by the Global Coalition to Defeat ISIS, including operations by the Iraqi Security Forces and the Kurdish Peshmerga to liberate territory once controlled by ISIS. Nevertheless, the Committee is concerned by the continued threat of ISIS and the potential for ISIS to regenerate. In support of continued counter-ISIS operations and in conjunction with the central government of Iraq, the Department of Defense should continue to provide the Ministry of Peshmerga forces with the security capabilities necessary to help secure territory liberated from ISIS and to counter ISIS threats. Such support should include training, equipment, and operational support tailored to conditions on the ground. The Committee also notes that continued insecurity in northern Iraq has hindered the return of religious minorities and other groups and encourages a focus on programs that will increase security in these areas.

The Committee recommends enhanced notification and reporting requirements for the Counter-ISIS Train and Equip Fund. The Committee directs the Secretary of Defense to submit a spend plan to the congressional defense committees not later than 45 days after the enactment of this Act and prior to the initial obligation



of funds provided under this heading. The spend plan shall include a description of assistance made available for Iraq and Syria, by category, as well as an explanation of how such funds will build security force capabilities, professionalize partner security forces, provide wide-area security, and promote the long-term stability of the region.

The Committee recommendation continues the requirement for the Secretary of Defense to notify the congressional defense committees not fewer than 15 days prior to obligating funds under this heading, in writing, of the details of any such obligation. The Committee directs that such notifications include a description of the amount, type, and purpose of assistance to be funded and the recipient of the assistance; the budget and implementation timeline, with milestones and anticipated delivery schedule for such assistance; and a description of any material misuse of assistance by any appropriately vetted recipient since the last notification was submitted, along with a description of any remedies taken by the Department of Defense.

The Committee recommendation continues quarterly reporting requirements for funds made available under this heading. The Committee notes that the Department of Defense has not complied with similar requirements from prior years and includes language under Operation and Maintenance, Defense-Wide withholding funds until these reports are submitted.

#### YEMEN

The Committee directs the Secretary of Defense to update the report required by House Report 115–769 under the heading “Report on U.S. Defense Assistance to Saudi Arabia and United Arab Emirates Coalition in Yemen” not later than 90 days after the enactment of this Act.

The Committee is concerned about reports regarding allegations of torture by members of the United Arab Emirates security forces in Yemen and urges the Secretary of Defense to consider such reporting when making a determination on whether to prohibit assistance to units of foreign security forces that have committed gross violations of human rights.

#### PROCUREMENT

The Committee recommends an additional appropriation of \$11,748,074,000 for Procurement. The Committee recommendation for each procurement account is as follows:

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS  
[in thousands of dollars]

P-1	Budget Request	Committee Recommended	Change from Request
<b>AIRCRAFT PROCUREMENT, ARMY</b>			
OCO/GWOT FOR DIRECT WAR AND ENDURING COSTS			
3 MQ-1 UAV Program increase - service life extension	54,000	144,000 90,000	90,000
15 CH-47	25,000	25,000	0
21 MULTI SENSOR ABN RECON	80,260	80,260	0
24 GRCS SEMA MODS	750	750	0
26 EMARSS SEMA MODS	22,180	22,180	0
27 UTILITY/CARGO AIRPLANE MODS	8,362	8,362	0
29 NETWORK AND MISSION PLAN	10	10	0
31 DEGRADED VISUAL ENVIRONMENT Ahead of need	49,450	0 -49,450	-49,450
33 RQ-7 UAV MODS Program increase	0	60,000 60,000	60,000
37 CMWS	130,219	130,219	0
38 COMMON INFRARED COUNTERMEASURES (CIRCM)	9,310	9,310	0
45 LAUNCHER GUIDED MISSILE: LONGBOW HELLFIRE	2,000	2,000	0
SUBTOTAL, OCO/GWOT FOR DIRECT WAR AND ENDURING COSTS	381,541	482,091	100,550
<b>TOTAL, AIRCRAFT PROCUREMENT, ARMY</b>	<b>381,541</b>	<b>482,091</b>	<b>100,550</b>
<b>MISSILE PROCUREMENT, ARMY</b>			
OCO/GWOT FOR DIRECT WAR AND ENDURING COSTS			
2 M-SHORAD	158,300	158,300	0
3 MSE MISSILE	37,938	37,938	0
6 HELLFIRE SYSTEM SUMMARY	236,265	236,265	0
8 JAVELIN (AAWS-M) SYSTEM SUMMARY	4,389	4,389	0
11 GUIDED MLRS ROCKET (GMLRS)	431,596	431,596	0
14 ATACMS SYSTEM SUMMARY	130,770	130,770	0

P-1	Budget Request	Committee Recommended	Change from Request
15 LETHAL MINIATURE AERIAL MISSILE SYSTEM	83,300	83,300	0
19 STINGER MODS	7,500	7,500	0
22 MLRS MODS	348,000	324,160	-23,840
Launcher unit cost increases		-23,840	
SUBTOTAL, OCO/GWOT FOR DIRECT WAR AND ENDURING COSTS	1,438,058	1,414,218	-23,840
OCO/GWOT FOR BASE REQUIREMENTS			
1 SYSTEM INTEGRATION AND TEST	113,857	0	-113,857
Transfer to title III		-113,857	
2 M-SHORAD	103,800	0	-103,800
Transfer to title III		-103,800	
3 MSE MISSILE	698,603	0	-698,603
Transfer to title III		-698,603	
4 INDIRECT FIRE PROTECTION CAPABILITY INC 2-1	9,337	0	-9,337
Transfer to title III		-9,337	
6 HELLFIRE SYSTEM SUMMARY	193,284	0	-193,284
Transfer to title III		-193,284	
7 JAGM	233,353	0	-233,353
Transfer to title III		-233,353	
8 JAVELIN (AAWS-M) SYSTEM SUMMARY	138,405	0	-138,405
Transfer to title III		-138,405	
9 TOW 2 SYSTEM SUMMARY	114,340	0	-114,340
Transfer to title III		-114,340	
10 TOW 2 SYSTEM SUMMARY (AP)	10,500	0	-10,500
Transfer to title III		-10,500	
11 GUIDED MLRS ROCKET (GMLRS)	797,213	0	-797,213
Transfer to title III		-797,213	
12 MLRS REDUCED RANGE PRACTICE ROCKETS (RRPR)	27,555	0	-27,555
Transfer to title III		-27,555	
14 ATACMS SYSTEM SUMMARY	209,842	0	-209,842
Transfer to title III		-209,842	
16 PATRIOT MODS	279,464	0	-279,464
Transfer to title III		-279,464	
17 ATACMS MODS	85,320	0	-85,320
Transfer to title III		-85,320	

P-1	Budget Request	Committee Recommended	Change from Request
18 GMLRS MODS Transfer to title III	5,094	0 -5,094	-5,094
19 STINGER MODS Transfer to title III	81,615	0 -81,615	-81,615
20 AVENGER MODS Transfer to title III	14,107	0 -14,107	-14,107
21 ITAS/TOW MODS Transfer to title III	3,469	0 -3,469	-3,469
22 MLRS MODS Transfer to title III	39,019	0 -39,019	-39,019
23 HIMARS MODS Transfer to title III	12,483	0 -12,483	-12,483
24 SPARES AND REPAIR PARTS Transfer to title III	26,444	0 -26,444	-26,444
25 AIR DEFENSE TARGETS Transfer to title III	10,593	0 -10,593	-10,593
SUBTOTAL, OCO/GWOT FOR BASE REQUIREMENTS	3,207,697	0	-3,207,697
TOTAL, MISSILE PROCUREMENT, ARMY	4,645,755	1,414,218	-3,231,537
PROCUREMENT OF WEAPONS AND TRACKED COMBAT VEHICLES, ARMY			
OCO/GWOT FOR DIRECT WAR AND ENDURING COSTS			
2 ARMORED MULTI PURPOSE VEHICLE (AMPV)	221,638	221,638	0
3 STRYKER (MOD)	4,100	4,100	0
8 IMPROVED RECOVERY VEHICLE (M88A2 HERCULES)	80,146	80,146	0
13 M1 ABRAMS TANK (MOD)	13,100	13,100	0
15 M240 MEDIUM MACHINE GUN (7.62MM)	900	900	0
16 MULTI-ROLE ANTI-ARMOR ANTI-PERSONNEL WEAPON	2,400	2,400	0
19 MORTAR SYSTEMS	18,941	18,941	0
20 XM320 GRENADE LAUNCHER MODULE (GLM)	526	526	0
23 CARBINE	1,183	1,183	0
25 COMMON REMOTELY OPERATED WEAPONS STATION	4,182	4,182	0
26 HANDGUN	248	248	0

P-1	Budget Request	Committee Recommended	Change from Request
31 M2 50 CAL MACHINE GUN MODS	6,090	6,090	0
SUBTOTAL, OCO/GWOT FOR DIRECT WAR AND ENDURING COSTS	353,454	353,454	0
TOTAL, PROCUREMENT OF WEAPONS AND TRACKED COMBAT VEHICLES, ARMY	353,454	353,454	0
PROCUREMENT OF AMMUNITION, ARMY			
OCO/GWOT FOR DIRECT WAR AND ENDURING COSTS			
1 CTG, 5.56MM, ALL TYPES	567	567	0
2 CTG, 7.62MM, ALL TYPES	40	40	0
3 CTG, HANDGUN, ALL TYPES	17	17	0
4 CTG, .50 CAL, ALL TYPES	189	189	0
7 CTG, 30MM, ALL TYPES	24,900	24,900	0
15 PROJ 155MM EXTENDED RANGE M982	36,052	36,052	0
16 ARTILLERY PROPELLANTS, FUZES AND PRIMERS,	7,271	7,271	0
19 SHOULDER LAUNCHED MUNITIONS, ALL TYPES	176	176	0
20 ROCKET, HYDRA 70, ALL TYPES	79,459	79,459	0
27 ITEMS LESS THAN \$5M (AMMO)	11	11	0
SUBTOTAL, OCO/GWOT FOR DIRECT WAR AND ENDURING COSTS	148,682	148,682	0
OCO/GWOT FOR BASE REQUIREMENTS			
1 CTG, 5.56MM, ALL TYPES	68,949	0	-68,949
Transfer to title III		-68,949	
2 CTG, 7.62MM, ALL TYPES	114,228	0	-114,228
Transfer to title III		-114,228	
3 CTG, HANDGUN, ALL TYPES	17,807	0	-17,807
Transfer to title III		-17,807	
4 CTG, 50 CAL, ALL TYPES	63,966	0	-63,966
Transfer to title III		-63,966	
5 CTG, 20MM, ALL TYPES	35,920	0	-35,920
Transfer to title III		-35,920	
6 CTG, 25MM, ALL TYPES	8,990	0	-8,990
Transfer to title III		-8,990	

P-1	Budget Request	Committee Recommended	Change from Request
7 CTG, 30MM, ALL TYPES Transfer to title III	68,813	0 -68,813	-68,813
8 CTG, 40MM, ALL TYPES Transfer to title III	103,952	0 -103,952	-103,952
9 60MM MORTAR, ALL TYPES Transfer to title III	50,580	0 -50,580	-50,580
10 81MM MORTAR, ALL TYPES Transfer to title III	59,373	0 -59,373	-59,373
11 120MM MORTAR, ALL TYPES Transfer to title III	125,452	0 -125,452	-125,452
12 CARTRIDGES, TANK, 105MM AND 120MM, ALL TYPES Transfer to title III	171,284	0 -171,284	-171,284
13 ARTILLERY CARTRIDGES, 75MM & 105MM, ALL TYPES Transfer to title III	44,675	0 -44,675	-44,675
14 ARTILLERY PROJECTILE, 155MM, ALL TYPES Transfer to title III	266,037	0 -266,037	-266,037
15 PROJ 155MM EXTENDED RANGE M982 Transfer to title III	57,434	0 -57,434	-57,434
ARTILLERY PROPELLANTS, FUZES AND PRIMERS, 16 ALL TYPES Transfer to title III	271,602	0 -271,602	-271,602
17 MINES AND CLEARING CHARGES, ALL TYPES Transfer to title III	55,433	0 -55,433	-55,433
18 SHOULDER LAUNCHED MUNITIONS, ALL TYPES Transfer to title III	74,878	0 -74,878	-74,878
19 ROCKET, HYDRA 70, ALL TYPES Transfer to title III	175,994	0 -175,994	-175,994
20 CAD/PAD, ALL TYPES Transfer to title III	7,595	0 -7,595	-7,595
21 DEMOLITION MUNITIONS, ALL TYPES Transfer to title III	51,651	0 -51,651	-51,651
22 GRENADES, ALL TYPES Transfer to title III	40,592	0 -40,592	-40,592
23 SIGNALS, ALL TYPES Transfer to title III	18,609	0 -18,609	-18,609
24 SIMULATORS, ALL TYPES Transfer to title III	16,054	0 -16,054	-16,054

P-1	Budget Request	Committee Recommended	Change from Request
25 AMMO COMPONENTS, ALL TYPES	5,261	0	-5,261
Transfer to title III		-5,261	
26 NON-LETHAL AMMUNITION, ALL TYPES	715	0	-715
Transfer to title III		-715	
27 ITEMS LESS THAN \$5M (AMMO)	9,213	0	-9,213
Transfer to title III		-9,213	
28 AMMUNITION PECULIAR EQUIPMENT	10,044	0	-10,044
Transfer to title III		-10,044	
29 FIRST DESTINATION TRANSPORT (AMMO)	18,492	0	-18,492
Transfer to title III		-18,492	
30 CLOSEOUT LIABILITIES	99	0	-99
Transfer to title III		-99	
31 INDUSTRIAL FACILITIES	474,511	0	-474,511
Transfer to title III		-474,511	
32 CONVENTIONAL MUNITIONS DEMILITARIZATION	202,512	0	-202,512
Transfer to title III		-202,512	
33 ARMS INITIATIVE	3,833	0	-3,833
Transfer to title III		-3,833	
SUBTOTAL, OCO/GWOT FOR BASE REQUIREMENTS	2,694,548	0	-2,694,548
TOTAL, PROCUREMENT OF AMMUNITION, ARMY	2,843,230	148,682	-2,694,548
OTHER PROCUREMENT, ARMY			
OCO/GWOT FOR DIRECT WAR AND ENDURING COSTS			
10 FAMILY OF HEAVY TACTICAL VEHICLES (FHTV)	26,917	26,917	0
11 PLS ESP	16,941	16,941	0
12 HEAVY EXPANDED MOBILE TACTICAL TRUCK EXT	62,734	62,734	0
14 TACTICAL WHEELED VEHICLE PROTECTION KITS	50,000	50,000	0
15 MODIFICATION OF IN SERVICE EQUIPMENT	28,000	28,000	0
22 TACTICAL NETWORK TECHNOLOGY MOD IN SERVICE	40,000	40,000	0
TRANSPORTABLE TACTICAL COMMAND			
29 COMMUNICATIONS	6,930	6,930	0
31 ASSURED POSITIONING, NAVIGATION AND TIMING	11,778	11,778	0
32 SMART-T (SPACE)	825	825	0
40 RADIO TERMINAL SET, MIDS LVT(2)	350	350	0

P-1	Budget Request	Committee Recommended	Change from Request
47 COTS COMMUNICATION EQUIPMENT	20,400	20,400	0
48 FAMILY OF MED COMM FOR COMBAT CASUALTY	1,231	1,231	0
51 CI AUTOMATION ARCHITECTURE	6,200	6,200	0
59 BASE SUPPORT COMMUNICATIONS	20,482	20,482	0
60 INFORMATION SYSTEMS	55,800	55,800	0
63 INSTALLATION INFO INFRASTRUCTURE MOD	75,820	75,820	0
68 DCGS-A	38,613	38,613	0
70 TROJAN	1,337	1,337	0
71 MOD OF IN-SVC EQUIPMENT (INTEL SUPPORT)	2,051	2,051	0
75 BIOMETRIC TACTICAL COLLECTION DEVICES	1,800	1,800	0
82 FAMILY OF PERSISTENT SURVEILLANCE CAP MX sensors unjustified growth	71,493	31,493 -40,000	-40,000
83 COUNTERINTELLIGENCE/SECURITY	6,917	6,917	0
85 SENTINEL MODS	20,000	20,000	0
86 NIGHT VISION DEVICES	3,676	3,676	0
94 JOINT BATTLE COMMAND - PLATFORM (JBC-P)	25,568	25,568	0
97 COMPUTER BALLISTICS: LHMBC XM32	570	570	0
98 MORTAR FIRE CONTROL SYSTEM	15,975	15,975	0
103 AIR AND MSL DEFENSE PLANNING & CONTROL SYS	14,331	14,331	0
112 ARMY TRAINING MODERNIZATION	6,014	6,014	0
113 AUTOMATED DATA PROCESSING EQUIPMENT	32,700	32,700	0
124 FAMILY OF NON-LETHAL EQUIPMENT (FNLE)	25,480	25,480	0
125 BASE DEFENSE SYSTEMS (BDS)	47,110	47,110	0
126 CBRN DEFENSE	18,711	18,711	0
128 TACTICAL BRIDGING	4,884	4,884	0
133 GROUND STANDOFF MINE DETECTION SYSTEM	4,500	4,500	0
135 HUSKY MOUNTED DETECTION SYSTEM (HMDS)	34,253	34,253	0
136 ROBOTIC COMBAT SUPPORT SYSTEM (RCSS)	3,300	3,300	0



P-1	Budget Request	Committee Recommended	Change from Request
140 RENDER SAFE SETS KITS OUTFITS	84,000	84,000	0
143 HEATERS AND ECUS	8	8	0
145 PERSONNEL RECOVERY SUPPORT SYSTEM (PRSS)	5,101	5,101	0
146 GROUND SOLDIER SYSTEM	1,760	1,760	0
148 FORCE PROVIDER	56,400	56,400	0
150 CARGO AERIAL DEL & PERSONNEL PARACHUTE	2,040	2,040	0
154 DISTRIBUTION SYSTEMS, PETROLEUM & WATER	13,986	13,986	0
155 COMBAT SUPPORT MEDICAL	2,735	2,735	0
159 SCRAPERS, EARTHMOVING	4,669	4,669	0
160 LOADERS	380	380	0
162 TRACTOR, FULL TRACKED	8,225	8,225	0
164 HIGH MOBILITY ENGINEER EXCAVATOR (HMEE)	3,000	3,000	0
166 CONST EQUIP ESP	3,870	3,870	0
167 ITEMS LESS THAN \$5M (CONST EQUIP)	350	350	0
171 GENERATORS AND ASSOCIATED EQUIP	2,436	2,436	0
173 FAMILY OF FORKLIFTS	5,152	5,152	0
175 TRAINING DEVICES, NONSYSTEM	2,106	2,106	0
181 INTEGRATED FAMILY OF TEST EQUIPMENT (IFTE)	1,395	1,395	0
184 RAPID EQUIPPING SOLDIER SUPPORT EQUIPMENT	24,122	24,122	0
185 PHYSICAL SECURITY SYSTEMS (OPA3)	10,016	10,016	0
187 MODIFICATION OF IN-SERVICE EQUIPMENT (OPA3)	33,354	33,354	0
189 BUILDING, PRE-FAB, RELOCATABLE Transfer from title III	62,654	77,054 14,400	14,400
SUBTOTAL, OCO/GWOT FOR DIRECT WAR AND ENDURING COSTS	1,131,450	1,105,850	-25,600
OCO/GWOT FOR BASE REQUIREMENTS			
999 CLASSIFIED PROGRAMS Transfer to title III	8,200	0 -8,200	-8,200
SUBTOTAL, OCO/GWOT FOR BASE REQUIREMENTS	8,200	0	-8,200
TOTAL, OTHER PROCUREMENT, ARMY	1,139,650	1,105,850	-33,800

P-1	Budget Request	Committee Recommended	Change from Request
<b>AIRCRAFT PROCUREMENT, NAVY</b>			
OCO/GWOT FOR DIRECT WAR AND ENDURING COSTS			
26 STUASLO UAV	7,921	7,921	0
27 MQ-9 REAPER	77,000	77,000	0
36 EP-3 SERIES	5,488	5,488	0
46 SPECIAL PROJECT AIRCRAFT	3,498	3,498	0
51 COMMON ECM EQUIPMENT	3,406	3,406	0
53 COMMON DEFENSIVE WEAPON SYSTEM	3,274	3,274	0
62 QRC	18,458	18,458	0
SUBTOTAL, OCO/GWOT FOR DIRECT WAR AND ENDURING COSTS	119,045	119,045	0
TOTAL, AIRCRAFT PROCUREMENT, NAVY	119,045	119,045	0
<b>WEAPONS PROCUREMENT, NAVY</b>			
OCO/GWOT FOR DIRECT WAR AND ENDURING COSTS			
5 SIDEWINDER Program increase - additional munitions	0	34,200 34,200	34,200
11 JAGM Contract delays	90,966	75,729 -15,237	-15,237
15 AERIAL TARGETS	6,500	6,500	0
SUBTOTAL, OCO/GWOT FOR DIRECT WAR AND ENDURING COSTS	97,466	116,429	18,963
OCO/GWOT FOR BASE REQUIREMENTS			
1 TRIDENT II MODS Transfer to title III	1,177,251	0 -1,177,251	-1,177,251
2 MISSILE INDUSTRIAL FACILITIES Transfer to title III	7,142	0 -7,142	-7,142
3 TOMAHAWK Transfer to title III	386,730	0 -386,730	-386,730
4 AMRAAM Transfer to title III	224,502	0 -224,502	-224,502
5 SIDEWINDER Transfer to title III	119,456	0 -119,456	-119,456

P-1	Budget Request	Committee Recommended	Change from Request
7 STANDARD MISSILE Transfer to title III	404,523	0 -404,523	-404,523
8 STANDARD MISSILE (AP-CY) Transfer to title III	96,085	0 -96,085	-96,085
9 SMALL DIAMETER BOMB II Transfer to title III	118,466	0 -118,466	-118,466
10 RAM Transfer to title III	106,765	0 -106,765	-106,765
12 HELLFIRE Transfer to title III	1,525	0 -1,525	-1,525
15 AERIAL TARGETS Transfer to title III	145,880	0 -145,880	-145,880
16 DRONES AND DECOYS Transfer to title III	20,000	0 -20,000	-20,000
17 OTHER MISSILE SUPPORT Transfer to title III	3,388	0 -3,388	-3,388
18 LRASM Transfer to title III	143,200	0 -143,200	-143,200
19 LCS OTH MISSILE Transfer to title III	38,137	0 -38,137	-38,137
20 ESSM Transfer to title III	128,059	0 -128,059	-128,059
21 HARPOON MODS Transfer to title III	25,447	0 -25,447	-25,447
22 HARM MODS Transfer to title III	183,740	0 -183,740	-183,740
23 STANDARD MISSILE MODS Transfer to title III	22,500	0 -22,500	-22,500
24 WEAPONS INDUSTRIAL FACILITIES Transfer to title III	1,958	0 -1,958	-1,958
25 FLEET SATELLITE COMM FOLLOW-ON Transfer to title III	67,380	0 -67,380	-67,380
27 ORDNANCE SUPPORT EQUIPMENT Transfer to title III	109,427	0 -109,427	-109,427
28 SSTD Transfer to title III	5,561	0 -5,561	-5,561
29 MK-48 TORPEDO Transfer to title III	114,000	0 -114,000	-114,000

P-1	Budget Request	Committee Recommended	Change from Request
30 ASW TARGETS	15,095	0	-15,095
Transfer to title III		-15,095	
31 MK-54 TORPEDO MODS	119,453	0	-119,453
Transfer to title III		-119,453	
32 MK-48 TORPEDO ADCAP MODS	39,508	0	-39,508
Transfer to title III		-39,508	
33 QUICKSTRIKE MINE	5,183	0	-5,183
Transfer to title III		-5,183	
34 TORPEDO SUPPORT EQUIPMENT	79,028	0	-79,028
Transfer to title III		-79,028	
35 ASW RANGE SUPPORT	3,890	0	-3,890
Transfer to title III		-3,890	
36 FIRST DESTINATION TRANSPORTATION	3,803	0	-3,803
Transfer to title III		-3,803	
37 SMALL ARMS AND WEAPONS	14,797	0	-14,797
Transfer to title III		-14,797	
38 CIWS MODS	44,126	0	-44,126
Transfer to title III		-44,126	
39 COAST GUARD WEAPONS	44,980	0	-44,980
Transfer to title III		-44,980	
40 GUN MOUNT MODS	66,376	0	-66,376
Transfer to title III		-66,376	
41 LCS MODULE WEAPONS	14,585	0	-14,585
Transfer to title III		-14,585	
43 AIRBORNE MINE NEUTRALIZATION SYSTEMS	7,160	0	-7,160
Transfer to title III		-7,160	
45 SPARES AND REPAIR PARTS	126,138	0	-126,138
Transfer to title III		-126,138	
SUBTOTAL, OCO/GWOT FOR BASE REQUIREMENTS	4,235,244	0	-4,235,244
TOTAL, WEAPONS PROCUREMENT, NAVY	4,332,710	116,429	-4,216,281
PROCUREMENT OF AMMO, NAVY & MARINE CORPS			
OCO/GWOT FOR DIRECT WAR AND ENDURING COSTS			
1 GENERAL PURPOSE BOMBS	26,978	26,978	0
2 JDAM	12,263	12,263	0
3 AIRBORNE ROCKETS, ALL TYPES	45,020	45,020	0

P-1		Budget Request	Committee Recommended	Change from Request
4	MACHINE GUN AMMUNITION	33,577	33,577	0
5	PRACTICE BOMBS	11,903	11,903	0
6	CARTRIDGES & CART ACTUATED DEVICES	15,081	15,081	0
7	AIR EXPENDABLE COUNTERMEASURES	16,911	16,911	0
11	OTHER SHIP GUN AMMUNITION	3,262	3,262	0
12	SMALL ARMS & LANDING PARTY AMMO	1,010	1,010	0
13	PYROTECHNIC AND DEMOLITION	537	537	0
16	MORTARS	1,930	1,930	0
17	DIRECT SUPPORT MUNITIONS	1,172	1,172	0
18	INFANTRY WEAPONS AMMUNITION	2,158	2,158	0
19	COMBAT SUPPORT MUNITIONS	965	965	0
21	ARTILLERY MUNITIONS	32,047	32,047	0
	SUBTOTAL, OCO/GWOT FOR DIRECT WAR AND ENDURING COSTS	204,814	204,814	0
	OCO/GWOT FOR BASE REQUIREMENTS			
1	GENERAL PURPOSE BOMBS Transfer to title III	36,028	0 -36,028	-36,028
2	JDAM Transfer to title III	70,413	0 -70,413	-70,413
3	AIRBORNE ROCKETS, ALL TYPES Transfer to title III	31,756	0 -31,756	-31,756
4	MACHINE GUN AMMUNITION Transfer to title III	4,793	0 -4,793	-4,793
5	PRACTICE BOMBS Transfer to title III	34,708	0 -34,708	-34,708
6	CARTRIDGES & CART ACTUATED DEVICES Transfer to title III	45,738	0 -45,738	-45,738
7	AIR EXPENDABLE COUNTERMEASURES Transfer to title III	77,301	0 -77,301	-77,301
8	JATOS Transfer to title III	7,262	0 -7,262	-7,262
9	5 INCH/54 GUN AMMUNITION Transfer to title III	22,594	0 -22,594	-22,594

P-1	Budget Request	Committee Recommended	Change from Request
10 INTERMEDIATE CALIBER GUN AMMUNITION	37,193	0	-37,193
Transfer to title III		-37,193	
11 OTHER SHIP GUN AMMUNITION	39,491	0	-39,491
Transfer to title III		-39,491	
12 SMALL ARMS & LANDING PARTY AMMO	47,896	0	-47,896
Transfer to title III		-47,896	
13 PYROTECHNIC AND DEMOLITION	10,621	0	-10,621
Transfer to title III		-10,621	
15 AMMUNITION LESS THAN \$50M	2,386	0	-2,386
Transfer to title III		-2,386	
16 MORTARS	55,543	0	-55,543
Transfer to title III		-55,543	
17 DIRECT SUPPORT MUNITIONS	131,765	0	-131,765
Transfer to title III		-131,765	
18 INFANTRY WEAPONS AMMUNITION	78,056	0	-78,056
Transfer to title III		-78,056	
19 COMBAT SUPPORT MUNITIONS	40,048	0	-40,048
Transfer to title III		-40,048	
20 AMMO MODERNIZATION	14,325	0	-14,325
Transfer to title III		-14,325	
21 ARTILLERY MUNITIONS	188,876	0	-188,876
Transfer to title III		-188,876	
22 ITEMS LESS THAN \$5M	4,521	0	-4,521
Transfer to title III		-4,521	
SUBTOTAL, OCO/GWOT FOR BASE REQUIREMENTS	981,314	0	-981,314
TOTAL, PROCUREMENT OF AMMO, NAVY & MARINE CORPS	1,186,128	204,814	-981,314
OTHER PROCUREMENT, NAVY			
OCO/GWOT FOR DIRECT WAR AND ENDURING COSTS			
20 UNDERWATER EOD PROGRAMS	5,800	5,800	0
42 FIXED SURVEILLANCE SYSTEM	310,503	310,503	0
85 SONOBUOYS - ALL TYPES	2,910	2,910	0
88 AIRCRAFT SUPPORT EQUIPMENT	13,420	13,420	0
94 AVIATION SUPPORT EQUIPMENT	500	500	0

P-1	Budget Request	Committee Recommended	Change from Request
103 EXPLOSIVE ORDNANCE DISPOSAL EQUIPMENT	15,307	9,007	-6,300
Navy EOD equipment unjustified request		-6,300	
108 PASSENGER CARRYING VEHICLES	173	173	0
109 GENERAL PURPOSE TRUCKS	408	408	0
111 FIRE FIGHTING EQUIPMENT	785	785	0
117 SUPPLY EQUIPMENT	100	100	0
118 FIRST DESTINATION TRANSPORTATION	510	510	0
122 COMMAND SUPPORT EQUIPMENT	2,800	2,800	0
123 MEDICAL SUPPORT EQUIPMENT	1,794	1,794	0
126 OPERATING FORCES SUPPORT EQUIPMENT	1,090	1,090	0
128 ENVIRONMENTAL SUPPORT EQUIPMENT	200	200	0
129 PHYSICAL SECURITY EQUIPMENT	1,300	1,300	0
SUBTOTAL, OCO/GWOT FOR DIRECT WAR AND ENDURING COSTS	357,600	351,300	-6,300
TOTAL, OTHER PROCUREMENT, NAVY	357,600	351,300	-6,300
PROCUREMENT, MARINE CORPS			
OCO/GWOT FOR DIRECT WAR AND ENDURING COSTS			
12 GUIDED MLRS ROCKET (GMLRS)	16,919	16,919	0
45 EOD SYSTEMS	3,670	3,670	0
SUBTOTAL, OCO/GWOT FOR DIRECT WAR AND ENDURING COSTS	20,589	20,589	0
TOTAL, PROCUREMENT, MARINE CORPS	20,589	20,589	0
AIRCRAFT PROCUREMENT, AIR FORCE			
OCO/GWOT FOR DIRECT WAR AND ENDURING COSTS			
17 MQ-9	172,240	376,440	204,200
Unit cost adjustment		-10,800	
Program increase - twelve aircraft		215,000	
18 RQ-20B PUMA	12,150	12,150	0
22 LAIRCM	53,335	53,335	0
67 MQ-9 UAS PAYLOADS	19,800	19,800	0

P-1	Budget Request	Committee Recommended	Change from Request
69 INITIAL SPARES / REPAIR PARTS	44,560	44,560	0
72 AIRCRAFT REPLACEMENT SUPPORT EQUIPMENT	7,025	7,025	0
SUBTOTAL, OCO/GWOT FOR DIRECT WAR AND ENDURING COSTS	309,110	513,310	204,200
<b>TOTAL, AIRCRAFT PROCUREMENT, AIR FORCE</b>	<b>309,110</b>	<b>513,310</b>	<b>204,200</b>
<b>MISSILE PROCUREMENT, AIR FORCE</b>			
OCO/GWOT FOR DIRECT WAR AND ENDURING COSTS			
4 JASSM	20,900	20,900	0
8 HELLFIRE	180,771	180,771	0
SUBTOTAL, OCO/GWOT FOR DIRECT WAR AND ENDURING COSTS	201,671	201,671	0
<b>TOTAL, MISSILE PROCUREMENT, AIR FORCE</b>	<b>201,671</b>	<b>201,671</b>	<b>0</b>
<b>PROCUREMENT OF AMMUNITION, AIR FORCE</b>			
OCO/GWOT FOR DIRECT WAR AND ENDURING COSTS			
1 ROCKETS	84,960	84,960	0
2 CARTRIDGES	52,642	52,642	0
4 GENERAL PURPOSE BOMBS	545,309	545,309	0
15 FLARES	93,272	93,272	0
16 FUZES	157,155	157,155	0
17 SMALL ARMS	6,095	6,095	0
SUBTOTAL, OCO/GWOT FOR DIRECT WAR AND ENDURING COSTS	939,433	939,433	0
OCO/GWOT FOR BASE REQUIREMENTS			
1 ROCKETS	133,268	0	-133,268
Transfer to title III		-133,268	
2 CARTRIDGES	140,449	0	-140,449
Transfer to title III		-140,449	
3 PRACTICE BOMBS	29,313	0	-29,313
Transfer to title III		-29,313	
4 GENERAL PURPOSE BOMBS	85,885	0	-85,885
Transfer to title III		-85,885	



P-1	Budget Request	Committee Recommended	Change from Request
6 JDAM Transfer to title III	1,066,224	0 -1,066,224	-1,066,224
7 B61 Transfer to title III	80,773	0 -80,773	-80,773
9 CAD/PAD Transfer to title III	47,069	0 -47,069	-47,069
10 EXPLOSIVE ORDNANCE DISPOSAL Transfer to title III	6,133	0 -6,133	-6,133
11 SPARES AND REPAIR PARTS Transfer to title III	533	0 -533	-533
12 MODIFICATIONS Transfer to title III	1,291	0 -1,291	-1,291
13 ITEMS LESS THAN \$5M Transfer to title III	1,677	0 -1,677	-1,677
15 FLARES Transfer to title III	36,116	0 -36,116	-36,116
16 FUZES Transfer to title III	1,734	0 -1,734	-1,734
17 SMALL ARMS Transfer to title III	37,496	0 -37,496	-37,496
SUBTOTAL, OCO/GWOT FOR BASE REQUIREMENTS	1,667,961	0	-1,667,961
TOTAL, PROCUREMENT OF AMMUNITION, AIR FORCE	2,607,394	939,433	-1,667,961
OTHER PROCUREMENT, AIR FORCE			
OCO/GWOT FOR DIRECT WAR AND ENDURING COSTS			
1 PASSENGER CARRYING VEHICLES	1,276	1,276	0
4 CARGO AND UTILITY VEHICLES	9,702	9,702	0
5 JOINT LIGHT TACTICAL VEHICLE	40,999	40,999	0
7 SPECIAL PURPOSE VEHICLES	52,502	52,502	0
8 FIRE FIGHTING/CRASH RESCUE VEHICLES	16,652	16,652	0
9 MATERIALS HANDLING VEHICLES	2,944	2,944	0
10 RUNWAY SNOW REMOVAL AND CLEANING	3,753	3,753	0
11 BASE MAINTENANCE SUPPORT VEHICLES	11,837	11,837	0
27 GENERAL INFORMATION TECHNOLOGY	5,000	5,000	0

P-1	Budget Request	Committee Recommended	Change from Request
31 AIR FORCE PHYSICAL SECURITY SYSTEM	106,919	106,919	0
48 TACTICAL C-E EQUIPMENT	306	306	0
52 BASE COMM INFRASTRUCTURE	4,300	4,300	0
54 PERSONAL SAFETY AND RESCUE EQUIPMENT	22,200	22,200	0
59 MOBILITY EQUIPMENT	26,535	26,535	0
60 FUEL SUPPORT EQUIPMENT (FSE)	4,040	4,040	0
61 BASE MAINTENANCE AND SUPPORT EQUIPMENT	20,067	20,067	0
999 CLASSIFIED PROGRAMS	3,209,066	3,682,169	473,103
Classified adjustment		473,103	
SUBTOTAL, OCO/GWOT FOR DIRECT WAR AND ENDURING COSTS	3,538,098	4,011,201	473,103
OCO/GWOT FOR BASE REQUIREMENTS			
999 CLASSIFIED PROGRAMS	655,000	0	-655,000
Transfer to title III		-438,297	
Classified adjustment		-216,703	
SUBTOTAL, OCO/GWOT FOR BASE REQUIREMENTS	655,000	0	-655,000
TOTAL, OTHER PROCUREMENT, AIR FORCE	4,193,098	4,011,201	-181,897
PROCUREMENT, DEFENSE-WIDE			
OCO/GWOT FOR DIRECT WAR AND ENDURING COSTS			
9 TELEPORT PROGRAM	3,800	3,800	0
12 DEFENSE INFORMATION SYSTEM NETWORK	12,000	12,000	0
COUNTER IED & IMPROVISED THREAT			
27 TECHNOLOGIES	4,590	4,590	0
999 CLASSIFIED PROGRAMS	51,380	43,075	-8,305
Program decrease		-8,305	
50 MANNED ISR	5,000	5,000	0
51 MC-12	5,000	5,000	0
52 MH-60 BLACKHAWK	28,100	25,264	-2,836
Labor and program support excess growth		-2,836	
54 UNMANNED ISR	8,207	8,207	0
56 U-28	31,500	31,500	0

P-1	Budget Request	Committee Recommended	Change from Request
57 MH-47 CHINOOK Excess growth	37,500	34,281 -3,219	-3,219
59 MQ-9 UAV	1,900	1,900	0
64 ORDNANCE ITEMS LESS THAN \$5M	138,252	138,252	0
65 INTELLIGENCE SYSTEMS	16,500	16,500	0
67 OTHER ITEMS LESS THAN \$5M	28	28	0
70 TACTICAL VEHICLES Program increase - ground mobility vehicle	2,990	36,290 33,300	33,300
71 WARRIOR SYSTEMS LESS THAN \$5M	37,512	37,512	0
72 COMBAT MISSION REQUIREMENTS	10,000	10,000	0
74 OPERATIONAL ENHANCEMENTS INTELLIGENCE	7,594	7,594	0
75 OPERATIONAL ENHANCEMENTS	45,194	45,194	0
SUBTOTAL, OCO/GWOT FOR DIRECT WAR AND ENDURING COSTS	447,047	465,987	18,940
OCO/GWOT FOR BASE REQUIREMENTS			
999 CLASSIFIED PROGRAMS Transfer to title III	5,000	0 -5,000	-5,000
SUBTOTAL, OCO/GWOT FOR BASE REQUIREMENTS	5,000	0	-5,000
TOTAL, PROCUREMENT, DEFENSE-WIDE	452,047	465,987	13,940
NATIONAL GUARD AND RESERVE EQUIPMENT	0	1,300,000	1,300,000
TOTAL, PROCUREMENT	23,143,022	11,748,074	-11,394,948

## NATIONAL GUARD AND RESERVE EQUIPMENT ACCOUNT

The Committee recommends \$1,300,000,000 for the National Guard and Reserve Equipment Account. Of that amount, \$375,000,000 is for the Army National Guard; \$375,000,000 is for the Air National Guard; \$215,000,000 is for the Army Reserve; \$80,000,000 is for the Navy Reserve; \$40,000,000 is for the Marine Corps Reserve; and \$215,000,000 is for the Air Force Reserve to meet urgent equipment needs in the coming fiscal year.

This funding will allow the National Guard and reserve components to procure high priority equipment used by these components for both their military missions and missions in support of State governors. The funding within this account is not to be used to procure equipment designated as high-density critical equipment, major weapon systems, aircraft, and other equipment central to a unit's ability to perform its doctrinal mission. The funding within this account is not to be used to procure equipment purchased by the senior Service, to expand or accelerate current Service procurement plans, to purchase expendable items, or to purchase facilities or equipment for any requirement able to be satisfied elsewhere.

The Committee directs the Secretary of Defense to ensure that the National Guard and Reserve Equipment Account is executed by the Chiefs of the National Guard and reserve components with priority consideration given to the following items: acoustic hailing devices; crash-worthy, ballistically tolerant auxiliary fuel systems; counter-UAS systems; detect and avoid systems; modular small arms range simulators; MQ-9 deployable launch and recovery element mission support kits; radiological screening portals; and training systems and simulators.

## RESEARCH, DEVELOPMENT, TEST AND EVALUATION

The Committee recommends an additional appropriation of \$844,368,000 for Research, Development, Test and Evaluation. The Committee recommendation for each research, development, test and evaluation account is as follows:

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS  
[In thousands of dollars]

R-1	Budget Request	Committee Recommended	Change from Request
<b>RESEARCH, DEVELOPMENT, TEST &amp; EVALUATION, ARMY</b>			
OCO/GWOT FOR DIRECT AND ENDURING WAR COSTS			
74 AIR AND MISSILE DEFENSE ENGINEERING	500	500	0
79 SOLDIER SUPPORT AND SURVIVABILITY	3,000	3,000	0
85 LOGISTICS AND ENGINEER EQUIPMENT ADV DEV	1,085	1,085	0
95 M-SHORAD Insufficient justification	6,000	0 -6,000	-6,000
97 ARMY ADVANCED COMPONENT DEVELOPMENT & PROTOTYPING	4,529	4,529	0
105 INTEGRATED BASE DEFENSE (BA4) Insufficient justification	2,000	0 -2,000	-2,000
151 COMMON INFRARED COUNTERMEASURES (CIRCM)	11,770	11,770	0
159 AIRCRAFT SURVIVABILITY DEVELOPMENT	77,420	77,420	0
163 ARMY SYSTEM DEVELOPMENT & DEMONSTRATION	19,527	19,527	0
174 ELECTRONIC WARFARE DEVELOPMENT	3,200	3,200	0
200 COUNTERINTEL AND HUMAN INTEL MODERNIZATION	1,875	1,875	0
238 SECURITY AND INTELLIGENCE ACTIVITIES Unjustified increase	22,904	12,904 -10,000	-10,000
246 TACTICAL UNMANNED AERIAL VEHICLES Duplicative research and development efforts	34,100	17,050 -17,050	-17,050
247 AIRBORNE RECONNAISSANCE SYSTEMS	14,000	14,000	0
252 BIOMETRICS ENABLED INTELLIGENCE	2,214	2,214	0
SUBTOTAL, OCO/GWOT FOR DIRECT AND ENDURING WAR COSTS	204,124	169,074	-35,050
TOTAL, RESEARCH, DEVELOPMENT, TEST & EVALUATION, ARMY	204,124	169,074	-35,050

R-1	Budget Request	Committee Recommended	Change from Request
RESEARCH, DEVELOPMENT, TEST & EVALUATION, NAVY			
OCO/GWOT FOR DIRECT AND ENDURING WAR COSTS			
28 AIR/OCEAN TACTICAL APPLICATIONS	2,400	2,400	0
38 RETRACT LARCH	22,000	22,000	0
JOINT SERVICE EXPLOSIVE ORDNANCE			
57 DEVELOPMENT	14,178	14,178	0
69 LAND ATTACK TECHNOLOGY	1,428	1,428	0
143 SHIP SELF DEFENSE (DETECT & CONTROL)	1,122	1,122	0
228 MARINE CORPS COMMUNICATIONS SYSTEMS	15,000	15,000	0
999 CLASSIFIED PROGRAMS	108,282	108,282	0
SUBTOTAL, OCO/GWOT FOR DIRECT AND ENDURING WAR COSTS	164,410	164,410	0
TOTAL, RESEARCH, DEVELOPMENT, TEST & EVALUATION, NAVY	164,410	164,410	0
RESEARCH, DEVELOPMENT, TEST & EVALUATION, AIR FORCE			
OCO/GWOT FOR DIRECT AND ENDURING WAR COSTS			
48 TECH TRANSITION PROGRAM	26,450	26,450	0
72 SPACE RAPID CAPABILITIES OFFICE	17,885	17,885	0
177 JOINT COUNTER RCIED ELECTRONIC WARFARE	4,000	4,000	0
217 INTEL DATA APPLICATIONS	1,200	1,200	0
999 CLASSIFIED PROGRAMS	78,713	78,713	0
SUBTOTAL, OCO/GWOT	128,248	128,248	0
OCO/GWOT FOR BASE REQUIREMENTS			
999 CLASSIFIED PROGRAMS	322,000	0	-322,000
Transfer to title IV		-322,000	
SUBTOTAL, OCO/GWOT FOR BASE REQUIREMENTS	322,000	0	-322,000
TOTAL, RESEARCH, DEVELOPMENT, TEST & EVALUATION, AIR FORCE	450,248	128,248	-322,000

R-1	Budget Request	Committee Recommended	Change from Request
RESEARCH, DEVELOPMENT, TEST & EVALUATION, DEFENSE WIDE			
OCO/GWOT FOR DIRECT AND ENDURING WAR COSTS			
10 COUNTER IMPROVISED-THREAT ADVANCED STUDIES	1,677	1,677	0
25 COMBATING TERRORISM TECHNOLOGY SUPPORT	25,230	25,230	0
27 COUNTER IMPROVISED-THREAT SIMULATION	49,528	49,528	0
94 COUNTER IMPROVISED-THREAT DEMONSTRATION, PROTOTYPE DEVELOPMENT, AND TESTING	113,590	113,590	0
258 OPERATIONAL ENHANCEMENTS	726	726	0
259 WARRIOR SYSTEMS	6,000	6,000	0
261 UNMANNED ISR	5,000	5,000	0
999 CLASSIFIED PROGRAMS Program decrease	200,199	180,885 -19,314	-19,314
SUBTOTAL, OCO/GWOT FOR DIRECT AND ENDURING WAR COSTS	401,950	382,636	-19,314
OCO/GWOT FOR BASE REQUIREMENTS			
999 CLASSIFIED PROGRAMS Transfer to title IV	426,000	0 -426,000	-426,000
SUBTOTAL, OCO/GWOT FOR BASE REQUIREMENTS	426,000	0	-426,000
TOTAL, RESEARCH, DEVELOPMENT, TEST & EVALUATION, DEFENSE WIDE	827,950	382,636	-445,314
TOTAL, RESEARCH, DEVELOPMENT, TEST & EVALUATION	1,646,732	844,368	-802,364

## REVOLVING AND MANAGEMENT FUNDS

### DEFENSE WORKING CAPITAL FUNDS

The Committee recommends an additional appropriation of \$20,100,000 for the Defense Working Capital Funds accounts.

### OTHER DEPARTMENT OF DEFENSE PROGRAMS

#### DEFENSE HEALTH PROGRAM

The Committee recommends an additional appropriation of \$347,746,000 for the Defense Health Program. The Committee recommendation is as follows:

#### EXPLANATION OF PROJECT LEVEL ADJUSTMENTS

[In thousands of dollars]

	Budget Request	Committee Recommended	Change from Request
IN-HOUSE CARE .....	57,459	57,459	0
PRIVATE SECTOR CARE .....	287,487	287,487	0
CONSOLIDATED HEALTH SUPPORT .....	2,800	2,800	0
TOTAL, OPERATION AND MAINTENANCE .....	347,746	347,746	0

### DRUG INTERDICTION AND COUNTER-DRUG ACTIVITIES, DEFENSE

The Committee recommends an additional appropriation of \$153,100,000 for Drug Interdiction and Counter-Drug Activities Defense.

### OFFICE OF THE INSPECTOR GENERAL

The Committee recommends an additional appropriation of \$24,254,000 for the Office of the Inspector General.

### GENERAL PROVISIONS

Title IX of the accompanying bill includes 24 general provisions, many of which extend or modify war-related authorities included in previous Acts. A brief description of each provision follows:

Section 9001 has been amended and provides that funds made available in this title are in addition to funds appropriated or otherwise made available for the Department of Defense for fiscal year 2020.

Section 9002 has been amended and provides for general transfer authority within title IX.

Section 9003 provides that supervision and administration costs associated with a construction project funded with appropriations available for operation and maintenance or the Afghanistan Security Forces Fund, may be obligated at the time a construction contract is awarded.

Section 9004 provides for the procurement of passenger motor vehicles and heavy and light armored vehicles for use by military and civilian employees of the Department of Defense in the United States Central Command area.



Section 9005 has been amended and provides funding for the Commanders' Emergency Response Program, with certain limitations.

Section 9006 provides lift and sustainment to coalition forces supporting military and stability operations in Iraq and Afghanistan.

Section 9007 prohibits the establishment of permanent bases in Iraq or Afghanistan or United States control over Iraq oil resources.

Section 9008 prohibits the use of funding in contravention of the United Nations Convention Against Torture and Other Cruel, Inhuman or Degrading Treatment or Punishment.

Section 9009 limits the obligation of funding for the Afghanistan Security Forces Fund until certain conditions have been met.

Section 9010 provides for the purchase of items of a particular investment unit cost from funding made available for operation and maintenance.

Section 9011 provides security assistance to the Government of Jordan.

Section 9012 prohibits the use of funding under the Counter-ISIS Train and Equip Fund to procure or transfer man-portable air defense systems.

Section 9013 has been amended and provides assistance to the military and national security forces of Ukraine.

Section 9014 provides replacement funds for items provided to the Government of Ukraine from the inventory of the United States.

Section 9015 prohibits the use of funds to procure or transfer man-portable air defense systems to Ukraine.

Section 9016 provides for the transfer of excess equipment to foreign forces receiving equipment through the Counter-ISIS Train and Equip Fund.

Section 9017 restricts funds provided in Operation and Maintenance, Defense-Wide for payments under Coalition Support Funds for reimbursement to the Government of Pakistan until certain conditions are met.

Section 9018 is amended and provides funds to the Department of Defense to improve near-term intelligence, surveillance, and reconnaissance capabilities.

Section 9019 prohibits the use of funds with respect to Syria in contravention of the War Powers Resolution.

Section 9020 places restrictions on the transfer of additional C-130 cargo aircraft to the Afghanistan National Security Forces or Afghanistan Air Force.

Section 9021 requires the Secretary of Defense to certify the use of funds in the Afghanistan Security Forces Fund under certain conditions.

Section 9022 is new and restricts funds provided in this Act for expenses of any member of the Taliban.

#### (RESCISSIONS)

Section 9023 has been amended and provides for the rescission of \$66,574,000 from the following programs:

## 2019 Appropriations:

Operation and Maintenance, Defense-Wide:	
Defense Security Cooperation Account .....	\$7,000,000
Afghanistan Security Forces Fund:	
Afghanistan Security Forces Fund .....	30,000,000
Counter-ISIS Train and Equip Fund:	
Counter-ISIS Train and Equip Fund .....	13,000,000
Procurement of Ammunition, Navy and Marine Corps:	
JT direct attack munition .....	16,574,000

Section 9024 requires the President to designate Overseas Contingency Operation/Global War on Terrorism funds.

COMPARATIVE STATEMENT OF NEW BUDGET AUTHORITY FOR 2019 AND BUDGET REQUESTS AND AMOUNTS RECOMMENDED IN THE BILL FOR 2020  
(Amounts in Thousands)

	FY 2019 Enacted	FY 2020 Request	Bill	Bill vs. Enacted	Bill vs. Request
TITLE I					
MILITARY PERSONNEL					
Military Personnel, Army.....	42,690,042	43,347,472	42,314,762	-375,280	-1,032,710
Military Personnel, Navy.....	30,164,481	31,831,199	31,679,229	+1,514,748	-151,970
Military Personnel, Marine Corps.....	13,779,038	14,175,211	14,064,751	+285,713	-110,460
Military Personnel, Air Force.....	30,074,691	31,284,959	31,082,769	+1,008,078	-202,190
Reserve Personnel, Army.....	4,836,947	4,964,671	4,847,321	+10,374	-117,350
Reserve Personnel, Navy.....	2,049,021	2,123,947	2,113,357	+64,336	-10,590
Reserve Personnel, Marine Corps.....	782,390	838,854	829,124	+46,734	-9,730
Reserve Personnel, Air Force.....	1,860,406	2,038,040	1,993,280	+132,874	-44,760
National Guard Personnel, Army.....	8,600,945	8,808,305	8,664,535	+63,590	-143,770
National Guard Personnel, Air Force.....	3,699,080	4,063,845	4,032,521	+333,441	-31,324
	=====	=====	=====	=====	=====
Total, title I, Military Personnel.....	138,537,041	143,476,503	141,621,649	+3,084,608	-1,854,854
	=====	=====	=====	=====	=====
Total, Tricare Accrual payments (permanent, indefinite authority).....	7,533,090	7,816,815	7,816,815	+283,725	---
	=====	=====	=====	=====	=====
Total, including Tricare.....	146,070,131	151,293,318	149,438,464	+3,368,333	-1,854,854
	=====	=====	=====	=====	=====

COMPARATIVE STATEMENT OF NEW BUDGET AUTHORITY FOR 2019 AND BUDGET REQUESTS AND AMOUNTS RECOMMENDED IN THE BILL FOR 2020  
(Amounts in Thousands)

TITLE II

OPERATION AND MAINTENANCE

Operation and Maintenance, Army.....	40,145,482	22,797,873	41,449,293	+1,303,811	+18,651,420
Operation and Maintenance, Navy.....	48,034,826	25,952,718	51,417,389	+3,382,563	+25,464,671
Operation and Maintenance, Marine Corps.....	6,540,049	3,928,045	7,945,854	+1,405,805	+4,017,809
Operation and Maintenance, Air Force.....	40,379,184	21,278,499	44,662,729	+4,283,545	+23,384,230
Operation and Maintenance, Space Force.....	---	72,436	15,000	+15,000	-57,436
Operation and Maintenance, Defense-Wide .....	35,613,354	37,399,341	37,256,022	+1,642,668	-143,319
Operation and Maintenance, Army Reserve.....	2,781,402	1,080,103	3,009,594	+228,192	+1,929,491
Operation and Maintenance, Navy Reserve.....	1,018,006	261,284	1,110,116	+92,110	+848,832
Operation and Maintenance, Marine Corps Reserve.....	271,570	61,090	294,076	+22,506	+232,986
Operation and Maintenance, Air Force Reserve.....	3,191,734	2,231,445	3,356,685	+164,951	+1,125,240
Operation and Maintenance, Army National Guard.....	7,118,831	3,335,755	7,448,536	+329,705	+4,112,781
Operation and Maintenance, Air National Guard.....	6,420,697	3,612,156	6,592,589	+171,892	+2,980,433
United States Court of Appeals for the Armed Forces.....	14,662	14,771	14,771	+109	---
Environmental Restoration, Army.....	235,809	207,518	235,809	---	+28,291
Environmental Restoration, Navy.....	365,883	335,932	365,883	---	+29,951
Environmental Restoration, Air Force.....	365,808	302,744	365,808	---	+63,064
Environmental Restoration, Defense-Wide.....	19,002	9,105	19,002	---	+9,897
Environmental Restoration, Formerly Used Defense Sites..	248,673	216,499	260,499	+11,826	+44,000
Overseas Humanitarian, Disaster, and Civic Aid.....	117,663	108,600	117,663	---	+9,063
Cooperative Threat Reduction Account.....	350,240	338,700	353,700	+3,460	+15,000

COMPARATIVE STATEMENT OF NEW BUDGET AUTHORITY FOR 2019 AND BUDGET REQUESTS AND AMOUNTS RECOMMENDED IN THE BILL FOR 2020  
(Amounts in Thousands)

	FY 2019 Enacted	FY 2020 Request	Bill	Bill vs. Enacted	Bill vs. Request
Department of Defense Acquisition Workforce Development Fund.....	450,000	400,000	400,000	-50,000	---
Total, title II, Operation and Maintenance.....	193,682,875	123,944,614	206,691,018	+13,008,143	+82,746,404

TITLE III

PROCUREMENT

Aircraft Procurement, Army.....	4,299,566	3,696,429	3,689,720	-609,846	-6,709
Missile Procurement, Army.....	3,145,256	---	3,218,272	+73,016	+3,218,272
Procurement of Weapons and Tracked Combat Vehicles, Army.....	4,486,402	4,715,566	4,849,373	+362,971	+133,807
Procurement of Ammunition, Army.....	2,276,330	---	2,583,895	+307,565	+2,583,895
Other Procurement, Army.....	7,844,691	7,443,101	7,583,678	-261,013	+140,577
Aircraft Procurement, Navy.....	20,092,199	18,522,204	18,971,913	-1,120,286	+449,709
Weapons Procurement, Navy.....	3,711,576	---	4,061,797	+350,221	+4,061,797
Procurement of Ammunition, Navy and Marine Corps.....	952,882	---	848,782	-103,900	+848,782
Shipbuilding and Conversion, Navy.....	24,150,087	23,783,710	21,699,556	-2,450,531	-2,084,154
Other Procurement, Navy.....	9,097,138	9,652,956	9,123,068	+25,930	-529,888
Procurement, Marine Corps.....	2,719,870	3,090,449	2,826,951	+107,081	-263,498
Aircraft Procurement, Air Force.....	17,112,337	16,784,279	17,877,933	+765,596	+1,093,654
Missile Procurement, Air Force.....	2,585,004	2,889,187	2,789,287	+204,283	-99,900
Space Procurement, Air Force.....	2,343,642	2,414,383	2,366,443	+24,801	-45,940

COMPARATIVE STATEMENT OF NEW BUDGET AUTHORITY FOR 2019 AND BUDGET REQUESTS AND AMOUNTS RECOMMENDED IN THE BILL FOR 2020  
(Amounts in Thousands)

	FY 2019 Enacted	FY 2020 Request	Bill	Bill vs. Enacted	Bill vs. Request
Procurement of Ammunition, Air Force.....	1,485,856	---	1,602,761	+116,905	+1,602,761
Other Procurement, Air Force.....	20,884,225	20,687,857	21,042,888	+158,663	+355,031
Procurement, Defense-Wide.....	6,822,180	5,109,416	5,100,866	-1,721,314	-8,550
National Guard and Reserve Equipment.....	1,300,000	---	---	-1,300,000	---
Defense Production Act Purchases .....	53,578	34,393	64,393	+10,815	+30,000
Joint Urgent Operational Needs Fund.....	---	99,200	---	---	-99,200
	=====	=====	=====	=====	=====
Total, title III, Procurement.....	135,362,619	118,923,130	130,303,576	-5,059,043	+11,380,446
	=====	=====	=====	=====	=====
TITLE IV					
RESEARCH, DEVELOPMENT, TEST AND EVALUATION					
Research, Development, Test and Evaluation, Army.....	11,083,824	12,192,771	12,046,783	+962,959	-145,988
Research, Development, Test and Evaluation, Navy .....	18,510,564	20,270,499	19,125,865	+615,301	-1,144,634
Research, Development, Test and Evaluation, Air Force...	41,229,475	45,616,122	44,795,456	+3,565,981	-820,666
Research, Development, Test and Evaluation, Defense-Wide .....	23,691,836	24,346,953	24,502,308	+810,472	+155,355
Operational Test and Evaluation, Defense.....	381,009	221,200	221,200	-159,809	---
	=====	=====	=====	=====	=====
Total, title IV, Research, Development, Test and Evaluation.....	94,896,708	102,647,545	100,691,612	+5,794,904	-1,955,933
	=====	=====	=====	=====	=====

COMPARATIVE STATEMENT OF NEW BUDGET AUTHORITY FOR 2019 AND BUDGET REQUESTS AND AMOUNTS RECOMMENDED IN THE BILL FOR 2020  
(Amounts in Thousands)

	FY 2019 Enacted	FY 2020 Request	Bill	Bill vs. Enacted	Bill vs. Request
TITLE V					
REVOLVING AND MANAGEMENT FUNDS					
Defense Working Capital Funds.....	1,641,115	1,226,211	1,226,211	-414,904	---
Defense Counterintelligence and Security Agency Working Capital Fund.....	---	200,000	200,000	+200,000	---
	=====	=====	=====	=====	=====
Total, Title V, Revolving and Management Funds...	1,641,115	1,426,211	1,426,211	-214,904	---
	=====	=====	=====	=====	=====
TITLE VI					
OTHER DEPARTMENT OF DEFENSE PROGRAMS					
Defense Health Program					
Operation and maintenance.....	30,953,422	31,812,090	31,356,942	+403,520	-455,148
Procurement.....	873,160	454,324	454,324	-418,836	---
Research, development, test and evaluation.....	2,180,937	732,273	1,652,273	-528,664	+920,000
	=====	=====	=====	=====	=====
Total, Defense Health Program 1/.....	34,007,519	32,998,687	33,463,539	-543,980	+464,852

COMPARATIVE STATEMENT OF NEW BUDGET AUTHORITY FOR 2019 AND BUDGET REQUESTS AND AMOUNTS RECOMMENDED IN THE BILL FOR 2020  
(Amounts in Thousands)

	FY 2019 Enacted	FY 2020 Request	Bill	Bill vs. Enacted	Bill vs. Request
Chemical Agents and Munitions Destruction, Defense:					
Operation and maintenance.....	105,997	107,351	107,351	+1,354	---
Procurement.....	1,091	2,218	2,218	+1,127	---
Research, development, test and evaluation.....	886,728	875,930	875,930	-10,798	---
Total, Chemical Agents 2/.....	993,816	985,499	985,499	-8,317	---
Drug Interdiction and Counter-Drug Activities, Defense1/ Office of the Inspector General 1/.....	881,525 329,273	799,402 363,499	816,755 363,499	-64,770 +34,226	+17,353 ---
Total, title VI, Other Department of Defense Programs.....	36,212,133	35,147,087	35,629,292	-582,841	+482,205
TITLE VII					
RELATED AGENCIES					
Central Intelligence Agency Retirement and Disability System Fund.....	514,000	514,000	514,000	---	---
Intelligence Community Management Account (ICMA).....	522,424	558,000	558,000	+35,576	---
Total, title VII, Related agencies.....	1,036,424	1,072,000	1,072,000	+35,576	---



COMPARATIVE STATEMENT OF NEW BUDGET AUTHORITY FOR 2019 AND BUDGET REQUESTS AND AMOUNTS RECOMMENDED IN THE BILL FOR 2020  
(Amounts in Thousands)

	FY 2019 Enacted	FY 2020 Request	Bill	Bill vs. Enacted	Bill vs. Request
TITLE VIII					
GENERAL PROVISIONS					
Additional transfer authority (Sec.8005).....	(4,000,000)	(5,000,000)	(1,000,000)	(-3,000,000)	(-4,000,000)
FFRDC (Sec.8024).....	-179,000	---	26,800	+205,800	+26,800
Rescissions (Sec.8041).....	-2,508,005	---	-3,043,973	-535,968	-3,043,973
National grants (Sec.8047).....	44,000	---	44,000	---	+44,000
O&M, Defense-wide transfer authority (Sec.8052).....	(30,000)	(30,000)	(30,000)	---	---
John C. Stennis Center for Public Service Development Trust Fund (O&M, Navy transfer authority)(Sec.8059)....	(1,000)	---	---	(-1,000)	---
Fisher House Foundation (Sec.8065).....	10,000	---	5,000	-5,000	+5,000
Revised economic assumptions (Sec.8076).....	-250,000	---	---	+250,000	---
Fisher House O&M Army Navy Air Force transfer authority (Sec.8087).....	(11,000)	(11,000)	(11,000)	---	---
Defense Health O&M transfer authority (Sec.8091).....	(113,000)	(127,000)	(129,000)	(+16,000)	(+2,000)
Revised fuel costs (Sec.8118).....	750,000	---	---	-750,000	---
Public Schools on Military Installations (Sec.8115).....	270,000	---	270,000	---	+270,000
Working Capital Fund, Army excess cash balances (Sec.8132).....	-50,000	---	---	+50,000	---

COMPARATIVE STATEMENT OF NEW BUDGET AUTHORITY FOR 2019 AND BUDGET REQUESTS AND AMOUNTS RECOMMENDED IN THE BILL FOR 2020  
(Amounts in Thousands)

	FY 2019 Enacted	FY 2020 Request	Bill	Bill vs. Enacted	Bill vs. Request
Working Capital Fund, Navy excess cash balances (Sec. 8133)	-50,000	---	---	+50,000	---
Total, title VIII, General Provisions	-1,963,005	---	-2,698,173	-735,168	-2,698,173

TITLE IX

OVERSEAS CONTINGENCY OPERATIONS/GLOBAL WAR ON TERRORISM  
(GWOT)

Military Personnel

Military Personnel, Army (GWOT)	2,929,154	2,743,132	2,743,132	-186,022	---
Military Personnel, Navy (GWOT)	385,461	356,392	356,392	-29,069	---
Military Personnel, Marine Corps (GWOT)	109,232	104,213	104,213	-5,019	---
Military Personnel, Air Force (GWOT)	964,508	1,007,594	1,007,594	+43,086	---
Reserve Personnel, Army (GWOT)	37,007	34,812	34,812	-2,195	---
Reserve Personnel, Navy (GWOT)	11,100	11,370	11,370	+270	---
Reserve Personnel, Marine Corps (GWOT)	2,380	3,599	3,599	+1,219	---
Reserve Personnel, Air Force (GWOT)	21,076	16,428	16,428	-4,648	---
National Guard Personnel, Army (GWOT)	195,283	202,644	202,644	+7,361	---
National Guard Personnel, Air Force (GWOT)	5,460	5,624	5,624	+164	---
Total, Military Personnel	4,660,661	4,485,808	4,485,808	-174,853	---

COMPARATIVE STATEMENT OF NEW BUDGET AUTHORITY FOR 2019 AND BUDGET REQUESTS AND AMOUNTS RECOMMENDED IN THE BILL FOR 2020  
(Amounts in Thousands)

	FY 2019 Enacted	FY 2020 Request	Bill	Bill vs. Enacted	Bill vs. Request
<b>Operation and Maintenance</b>					
Operation & Maintenance, Army (GWOT) .....	18,548,500	37,987,549	18,507,827	-40,673	-19,479,722
Operation & Maintenance, Navy (GWOT) .....	5,172,155	31,734,683	6,561,650	+1,389,495	-25,173,033
(Coast Guard) (by transfer) (GWOT) .....	---	(190,000)	(190,000)	(+190,000)	---
Operation & Maintenance, Marine Corps (GWOT) .....	1,292,995	5,123,470	1,124,791	-168,204	-3,998,679
Operation & Maintenance, Air Force (GWOT) .....	9,828,674	33,028,712	9,314,379	-514,295	-23,714,333
Operation & Maintenance, Defense-Wide (GWOT) .....	8,105,991	8,448,612	8,105,206	-785	-343,406
(Coalition support funds) (GWOT) .....	(900,000)	---	---	(-900,000)	---
Operation & Maintenance, Army Reserve (GWOT) .....	41,887	1,986,599	37,592	-4,295	-1,949,007
Operation & Maintenance, Navy Reserve (GWOT) .....	25,637	886,868	23,036	-2,601	-863,832
Operation & Maintenance, Marine Corps Reserve (GWOT) .....	3,345	239,693	8,707	+5,362	-230,986
Operation & Maintenance, Air Force Reserve (GWOT) .....	60,500	1,195,131	29,758	-30,742	-1,165,373
Operation & Maintenance, Army National Guard (GWOT) .....	110,729	4,376,939	83,291	-27,438	-4,293,648
Operation & Maintenance, Air National Guard (GWOT) .....	15,870	3,291,982	176,909	+161,039	-3,115,073
Subtotal .....	43,206,283	128,300,238	43,973,146	+766,863	-84,327,092
Afghanistan Security Forces Fund (GWOT) .....	4,920,000	4,803,978	4,503,978	-416,022	-300,000
Counter-ISIS Train and Equip Fund (GWOT) .....	1,352,200	1,045,000	1,295,000	-57,200	+250,000
Total, Operation and Maintenance .....	49,478,483	134,149,216	49,772,124	+293,641	-84,377,092

COMPARATIVE STATEMENT OF NEW BUDGET AUTHORITY FOR 2019 AND BUDGET REQUESTS AND AMOUNTS RECOMMENDED IN THE BILL FOR 2020  
(Amounts in Thousands)

	FY 2019 Enacted	FY 2020 Request	Bill	Bill vs. Enacted	Bill vs. Request
<b>Procurement</b>					
Aircraft Procurement, Army (GWOT).....	346,963	381,541	482,091	+135,128	+100,550
Missile Procurement, Army (GWOT).....	1,729,904	4,645,755	1,414,218	-315,686	-3,231,537
Procurement of Weapons and Tracked Combat Vehicles, Army (GWOT).....	1,102,108	353,454	353,454	-748,654	---
Procurement of Ammunition, Army (GWOT).....	299,075	2,843,230	148,682	-150,393	-2,694,548
Other Procurement, Army (GWOT).....	1,364,045	1,139,650	1,105,850	-258,195	-33,800
Aircraft Procurement, Navy (GWOT).....	232,119	119,045	119,045	-113,074	---
Weapons Procurement, Navy (GWOT).....	14,134	4,332,710	116,429	+102,295	-4,216,281
Procurement of Ammunition, Navy and Marine Corps (GWOT).....	229,783	1,186,128	204,814	-24,969	-981,314
Other Procurement, Navy (GWOT).....	181,173	357,600	351,300	+170,127	-6,300
Procurement, Marine Corps (GWOT).....	58,023	20,589	20,589	-37,434	---
Aircraft Procurement, Air Force (GWOT).....	955,248	309,110	513,310	-441,938	+204,200
Missile Procurement, Air Force (GWOT).....	493,526	201,671	201,671	-291,855	---
Procurement of Ammunition, Air Force (GWOT).....	1,371,516	2,607,394	939,433	-432,083	-1,667,961
Other Procurement, Air Force (GWOT).....	3,677,276	4,193,098	4,011,201	+333,925	-181,897
Procurement, Defense-Wide (GWOT).....	572,135	452,047	465,987	-106,148	+13,940
National Guard and Reserve Equipment (GWOT) .....	---	---	1,300,000	+1,300,000	+1,300,000
<b>Total, Procurement.....</b>	<b>12,627,028</b>	<b>23,143,022</b>	<b>11,748,074</b>	<b>-878,954</b>	<b>-11,394,948</b>

COMPARATIVE STATEMENT OF NEW BUDGET AUTHORITY FOR 2019 AND BUDGET REQUESTS AND AMOUNTS RECOMMENDED IN THE BILL FOR 2020  
(Amounts in Thousands)

	FY 2019 Enacted	FY 2020 Request	Bill	Bill vs. Enacted	Bill vs. Request
Research, Development, Test and Evaluation					
Research, Development, Test & Evaluation, Army (GWOT)...	300,604	204,124	169,074	-131,530	-35,050
Research, Development, Test & Evaluation, Navy (GWOT) ..	167,812	164,410	164,410	-3,402	---
Research, Development, Test & Evaluation, Air Force (GWOT).....	321,934	450,248	128,248	-193,686	-322,000
Research, Development, Test and Evaluation, Defense-Wide (GWOT).....	403,044	827,950	382,636	-20,408	-445,314
Total, Research, Development, Test and Evaluation.....	1,193,394	1,646,732	844,368	-349,026	-802,364
Revolving and Management Funds					
Defense Working Capital Funds (GWOT).....	15,190	20,100	20,100	+4,910	---

COMPARATIVE STATEMENT OF NEW BUDGET AUTHORITY FOR 2019 AND BUDGET REQUESTS AND AMOUNTS RECOMMENDED IN THE BILL FOR 2020  
(Amounts in Thousands)

	FY 2019 Enacted	FY 2020 Request	Bill	Bill vs. Enacted	Bill vs. Request
-----					
Other Department of Defense Programs					
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Defense Health Program:					
Operation & Maintenance (GWOT).....	352,068	347,746	347,746	-4,322	---
Drug Interdiction and Counter-Drug Activities, Defense (GWOT).....	153,100	163,596	153,100	---	-10,496
Office of the Inspector General (GWOT).....	24,692	24,254	24,254	-438	---
-----					
Total, Other Department of Defense Programs.....	529,860	535,596	525,100	-4,760	-10,496
=====					
TITLE IX General Provisions					
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Additional transfer authority (GWOT) (Sec. 9002).....	(2,000,000)	(4,500,000)	(500,000)	(-1,500,000)	(-4,000,000)
Ukraine Security Assistance Initiative (GWOT) (Sec. 9013)	250,000	250,000	250,000	---	---
Intelligence, Surveillance, and Reconnaissance (GWOT)	500,000	---	500,000	---	+500,000
(Sec. 9018).....	-1,340,616	---	-66,574	+1,274,042	-66,574
Rescissions (GWOT) (Sec. 9021).....	---	---	---	---	---
-----					
Total, General Provisions.....	-590,616	250,000	683,426	+1,274,042	+433,426
=====					
Total, title IX (OCO/GWOT).....	67,914,000	164,230,474	68,079,000	+165,000	-96,151,474
=====					

COMPARATIVE STATEMENT OF NEW BUDGET AUTHORITY FOR 2019 AND BUDGET REQUESTS AND AMOUNTS RECOMMENDED IN THE BILL FOR 2020  
(Amounts in Thousands)

	FY 2019 Enacted	FY 2020 Request	Bill	Bill vs. Enacted	Bill vs. Request
Grand total.....	667,319,910	690,867,564	682,816,185	+15,496,275	-8,051,379
Appropriations.....	(601,913,915)	(526,637,090)	(617,781,158)	(+15,867,243)	(+91,144,068)
Global War on Terrorism (GWOT).....	(69,254,616)	(164,230,474)	(68,145,574)	(-1,109,042)	(-96,084,900)
Rescissions.....	(-2,508,005)	---	(-3,043,973)	(-535,968)	(-3,043,973)
Rescissions (GWOT).....	(-1,340,616)	---	(-66,574)	(+1,274,042)	(-66,574)
(Transfer Authority).....	4,155,000	5,168,000	1,170,000	-2,985,000	-3,998,000
(Transfer Authority) (GWOT).....	2,000,000	4,500,000	500,000	-1,500,000	-4,000,000
Scorekeeping adjustments:					
Lease of defense real property (permanent) (CB0 estimate).....	36,000	34,000	34,000	-2,000	---
Disposal of defense real property (permanent) (CB0 estimate).....	8,000	8,000	8,000	---	---
DHP, O&M to DOD-VA Joint Incentive Fund (permanent):					
Defense function.....	-15,000	-15,000	-15,000	---	---
Non-defense function.....	15,000	15,000	15,000	---	---

COMPARATIVE STATEMENT OF NEW BUDGET AUTHORITY FOR 2019 AND BUDGET REQUESTS AND AMOUNTS RECOMMENDED IN THE BILL FOR 2020  
(Amounts in Thousands)

	FY 2019 Enacted	FY 2020 Request	Bill	Bill vs. Enacted	Bill vs. Request
DHP, O&M to Joint DOD-VA Medical Facility					
Demonstration Fund (Sec.8090):					
Defense function.....	-113,000	-127,000	-129,000	-16,000	-2,000
Non-defense function.....	113,000	127,000	129,000	+16,000	+2,000
Navy transfer to John C. Stennis Center for Public					
Service Development Trust Fund:					
Defense function.....	-1,000	---	---	+1,000	---
Non-defense function.....	1,000	---	---	-1,000	---
Tricare accrual (permanent, indefinite authority)3/.	7,533,090	7,816,815	7,816,815	+283,725	---
Total, scorekeeping adjustments.....	7,577,090	7,858,815	7,858,815	+281,725	---



COMPARATIVE STATEMENT OF NEW BUDGET AUTHORITY FOR 2019 AND BUDGET REQUESTS AND AMOUNTS RECOMMENDED IN THE BILL FOR 2020  
(Amounts in Thousands)

	FY 2019 Enacted	FY 2020 Request	Bill	Bill vs. Enacted	Bill vs. Request
RECAPITULATION					
Title I - Military Personnel.....	138,537,041	143,476,503	141,621,649	+3,084,608	-1,854,854
Title II - Operation and Maintenance.....	193,682,875	123,944,614	206,691,018	+13,008,143	+82,746,404
Title III - Procurement.....	135,362,619	118,923,130	130,303,576	-5,059,043	+11,380,446
Title IV - Research, Development, Test and Evaluation.....	94,896,708	102,647,545	100,691,612	+5,794,904	-1,955,933
Title V - Revolving and Management Funds.....	1,641,115	1,426,211	1,426,211	-214,904	---
Title VI - Other Department of Defense Programs.....	36,212,133	35,147,087	35,629,292	-582,841	+482,205
Title VII - Related Agencies.....	1,036,424	1,072,000	1,072,000	+35,576	---
Title VIII - General Provisions (net).....	-1,963,005	---	-2,698,173	-735,168	-2,698,173
Title IX - Global War on Terrorism (GWOT).....	67,914,000	164,230,474	68,079,000	+165,000	-96,151,474
Total, Department of Defense.....	667,319,910	690,867,564	682,816,185	+15,496,275	-8,051,379
Scorekeeping adjustments.....	7,577,090	7,858,815	7,858,815	+281,725	---
Total, mandatory and discretionary .....	674,897,000	698,726,379	690,675,000	+15,778,000	-8,051,379

- 1/ Included in Budget under Operation and Maintenance  
2/ Included in Budget under Procurement  
3/ Contributions to Department of Defense  
Medicare-Eligible Retiree Health Care Fund  
(Sec. 725, P.L. 108-375)