

EXPLANATORY STATEMENT FOR THE DEPARTMENT OF
DEFENSE APPROPRIATIONS BILL, 2021

BACKGROUND

PURPOSE OF THE BILL

This bill makes appropriations for the military functions of the Department of Defense for the period October 1, 2020, through September 30, 2021. Functional areas include the pay, allowances, and support of military personnel, operation and maintenance of the forces, procurement of equipment and systems, and research, development, test and evaluation. Appropriations for foreign military assistance, military construction, family housing, nuclear weapons programs, and civil defense are provided in other bills.

HEARINGS

The Appropriations Subcommittee on Defense held a limited number of hearings on the fiscal year 2021 President's budget request due to COVID-19 safety precautions. The hearings began on March 4, 2020, and concluded on March 11, 2020, after two separate sessions.

SUMMARY OF THE BILL

The Committee recommendation of \$688,070,500,000 includes funding to develop, maintain, and equip the military forces of the United States and for other purposes, including \$68,650,000,000 in overseas contingency operations, and \$514,000,000 in mandatory spending.

The fiscal year 2021 budget request for activities funded in the Department of Defense appropriations bill totals \$690,168,572,000 in new budget authority, including \$68,650,238,000 in overseas contingency operations funding, and \$514,000,000 in mandatory spending.

In fiscal year 2020, the Congress appropriated \$687,756,289,000 for activities funded in this bill. This amount included \$615,319,885,000 in base appropriations, \$70,665,000,000 in overseas contingency operations appropriations, and \$1,771,404,000 in emergency appropriations provided in Public Law 116-93. Additionally, Congress appropriated \$10,585,674,000 in emergency appropriations for fiscal year 2020 in Public Laws 116-127 and 116-136.

The Committee recommendation in this bill is \$2,085,615,000 above the amount provided in fiscal year 2020, excluding all emergency funding, and \$2,098,072,000 below the amount requested for fiscal year 2021.

The Committee is aware of the impact the COVID-19 pandemic has had on agency operations across the Federal Government. To

date, Congress has provided over \$2,900,000,000,000 in emergency supplemental relief in order to prevent, prepare for, and respond to COVID-19. The Committee continues to monitor agency needs directly related to COVID-19 and, to the extent necessary, will seek to address them in future supplemental appropriations vehicles. Accordingly, funding recommended in the Committee's regular fiscal year 2021 appropriations bill is focused on annual funding needs unrelated to the COVID-19 pandemic.

COMMITTEE RECOMMENDATIONS

The following table displays the recommendations for each title:

[In thousands of dollars]

	Fiscal year 2020 enacted	Fiscal year 2021 estimate	Committee Recommendation
Title I Military Personnel	142,446,067	150,524,104	149,616,480
Title II Operation and Maintenance	199,415,415	196,630,496	194,797,478
Title III Procurement	133,879,995	130,866,091	133,304,819
Title IV Research, Development, Test and Evaluation	104,431,232	106,224,793	104,080,076
Title V Revolving and Management Funds	1,564,211	1,348,910	2,600,910
Title VI Other Department of Defense Programs	36,316,176	34,720,940	35,371,421
Title VII Related Agencies	1,070,000	1,177,000	1,138,653
Title VIII General Provisions	-3,803,211	26,000	-1,489,337
Title IX Overseas Contingency Operations	70,665,000	68,650,238	68,650,000
Title X Additional Appropriations for Disaster Relief (Emergency) Second Coronavirus Preparedness and Response Supplemental Appropriations Act, 2020 (Public Law 116-127)	1,771,404	.....	.....
Emergency Appropriations for Coronavirus Health Response and Agency Operations (Public Law 116-136)	82,000	.....	.....
	10,503,674	.....	.....
Net grand total	698,341,963	690,168,572	688,070,500
Total mandatory and discretionary (incl. scorekeeping adjustments)	706,200,778	698,584,572	696,486,500

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

These adjustments reflect the following Committee actions: elimination of funds requested for programs which are lower priority, duplicative, or not supported by firm requirements in out-year development or procurement appropriations; deletion of excess funds based on program delays or slow execution; addition of funds to reflect congressional priorities and to rectify shortfalls in the budget estimate; and implementation of recommendations in the National Defense Authorization Act for Fiscal Year 2021 as passed by the Senate.

CLASSIFIED PROGRAM ADJUSTMENTS

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

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, 2021, the related classified annexes and Committee explanatory statement, and P–1 and R–1 budget justification documents as subsequently modified by congressional action.

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

At the time the President submits the budget request for fiscal year 2022, 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 2022.

REPROGRAMMING GUIDANCE FOR BASE AND OVERSEAS CONTINGENCY OPERATIONS FUNDING

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

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

FUNDING INCREASES

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

CONGRESSIONAL SPECIAL INTEREST ITEMS

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

APPROPRIATIONS FOR DEPARTMENT OF DEFENSE—IDENTIFIED
UNFUNDED REQUIREMENTS

In accordance with 10 U.S.C. 222(a), the military services and Combatant Commands submitted to the congressional defense committees unfunded mission requirements in excess of \$21,000,000,000 with submission of the fiscal year 2021 President’s budget request. As in previous years, the Committee has reviewed these requests, their underlying requirements, costs, and schedules, and recommends additional appropriations in fiscal year 2021 to address these shortfalls, as appropriate.

The Committee notes appropriations have been provided in prior fiscal years in an effort to address unfunded requirements which have subsequently been realigned to address purposes other than those requested by the Department of Defense and intended by the Congress. Of particular concern to the Committee are those instances where appropriations for unfunded requirements remained unobligated until proposed for realignment. While the Committee understands that requirements evolve and associated funding requirements change during execution of the budget, such unexecuted appropriations suggest that additional details regarding the execution of appropriations provided specifically for unfunded requirements identified by the Department of Defense is warranted. Therefore, the Committee directs that any submission of unfunded requirements with the fiscal year 2022 President’s budget request be accompanied by updated requirements and programmatic and execution plans for unfunded requirements that received appropriations in fiscal year 2021. Further, the Committee directs the Assistant Secretaries (Financial Management and Comptroller) for the Air Force, Navy, and Army to provide, not later than 30 days after enactment of this act, updated budget brief templates to the congressional defense appropriations committees that include distinct programmatic and execution data for appropriations provided in the previous 3 fiscal years for unfunded requirements.

PRESENTATION OF DEFENSE BUDGET MATERIALS BY MILITARY
SERVICES

The Committee is concerned that the Department of Defense may be making decisions regarding the budget requests of each military service without adequate consideration of mission-specific funding requirements. The Committee notes that the division of the defense budget between the military services should be primarily based on strategic considerations. The Committee believes that more accurate presentation of service budgets would help the Secretary of Defense analyze the budget proposals prepared by each of the military departments and adjudicate the amounts of funding recommended for each of the services based on factors such as relevance to implementation of the National Defense Strategy, opportunities for technological breakthroughs, efficiency, and accountability for previous years' funding, and similar objective criteria.

To facilitate the extent to which the Office of the Secretary of Defense follows this direction, the Committee directs that the Secretary of Defense shall include in any budget overview documents provided to Congress with the fiscal year 2022 budget, and all subsequent budgets, a description of the amounts and shares of the defense budget recommended to each of the military services or departments, the defense-wide accounts, and any other or miscellaneous recipients of Department of Defense budget requests.

The Committee additionally directs that the amounts and shares for each military service or department reported pursuant to this direction shall exclude amounts that are not directly related to the budgets of each service or department, such as funding that is subsequently redirected to general defense-wide needs or for other national security purposes.

Further, the Committee directs the Secretary of Defense to provide a briefing on the implementation of revised budget overview documents to the congressional defense and intelligence committees. This briefing should be delivered no later than November 1, 2020.

Finally, the Committee directs the Secretary of Defense to consult with the appropriate counterintelligence officials in preparation of these exhibits.

MISSILE DEFENSE AGENCY

Missile Defense Agency Budget Request, Priorities and Unfunded Requirements.—The fiscal year 2021 President's budget request for the Missile Defense Agency [MDA] is \$9,133,668,000 (excluding appropriations for Military Construction), a decrease of \$1,273,122,000 from amounts enacted for fiscal year 2020. Separately, with submission of the fiscal year 2021 President's budget request, the Director, MDA, submitted to the congressional defense committees a list of unfunded MDA requirements for fiscal year 2021 totaling \$969,222,000. The Committee is concerned by the apparent disconnect among the 2017 National Security Strategy, the 2018 National Defense Strategy, the 2020 Missile Defense Review (which defines missile defense as "an essential component of U.S. national security and defense strategies"), and the fiscal year 2021 President's budget request for MDA. In particular, ongoing acquisi-

tion programs that were identified as high priority within MDA's architecture as recently as 1 year ago, such as the development of a space sensor for the tracking of hypersonic threats and ballistic missiles, the development of an interceptor against hypersonic weapons, as well as the procurement of a radar for the defense of Hawaii, have been removed from MDA's budget, or underwent significant funding reductions. The Committee is concerned by these inconsistencies and expects greater programmatic and fiscal alignment consistent with the aforementioned documents among the Director, MDA; the Under Secretary of Defense (Research and Engineering); the Under Secretary of Defense (Acquisition and Sustainment); the Under Secretary of Defense (Comptroller); the Deputy Secretary of Defense, the Director, Cost Assessment and Program Evaluation; and the Director, Office of Management and Budget, in future budget submissions. The Committee recommends \$10,232,494,000 for MDA activities in this bill for fiscal year 2021, an increase of \$1,098,826,000 above the request, and directs the Director, MDA to directly provide to the congressional defense committees, not later than 30 days after enactment of this act updated acquisition and spend plans for MDA's fiscal year 2021 budget.

Missile Defense Agency Workforce.—The fiscal year 2021 President's budget request proposes a reduction to the MDA civilian workforce by 35 Full-Time Equivalents [FTEs]. The Committee notes that over the last 4 years, MDA's civilian FTEs have been reduced by over 4 percent and that the fiscal year 2021 Future Years Defense Program proposes to further reduce MDA's civilian FTEs by over 5 percent from current levels—even as MDA's workload continues to grow during that timeframe. The Committee further notes that MDA has not submitted to the congressional defense committees the assessment directed in Senate Report 116–103 regarding MDA's required workforce size, qualifications, and makeup to address MDA requirements. Therefore, the Committee rejects the fiscal year 2021 proposal to further reduce MDA's civilian FTE and recommends an increase of \$15,000,000 to MDA in fiscal year 2021 to restore those personnel reductions. Further, the Committee directs that no adjustments may be made to MDA's workforce size, structure, and organization until 30 days after the Deputy Secretary of Defense, acting directly through the Director, MDA, briefs the congressional defense committees on any such proposed adjustments.

United States Homeland Defense.—The explanatory statement accompanying Division A of Public Law 116–93, the Department of Defense Appropriations Act, 2020, directed the Director of the Missile Defense Agency to submit to the congressional defense committees, with submission of the fiscal year 2021 budget request, MDA's strategy for the Nation's homeland defense in the near-, mid-, and far-term, to include acquisition strategies for each element of the architecture, manufacturing and technology readiness levels, contract-type determinations, and rationales therefor, plans for technical data management, sustainment strategies, integrated master test plans, and integrated master schedules, as well as cost estimates. Further, the Secretary of Defense was directed to select an appropriate entity outside the Department of Defense to conduct an independent review and assessment of the current and planned

United States homeland defense architecture against near-, mid-, and far-term threats. Finally, the Director, Cost Assessment and Program Evaluation, was directed to submit to the congressional defense committees an independent cost assessment of this architecture.

The Committee notes that the submission of all three reports to the congressional defense committees is delayed. Nevertheless, in the fiscal year 2021 President's budget request, MDA is requesting \$139,000,000 for Terminal High Altitude Area Defense [THAAD] Layered Homeland Defense and \$135,230,000 for AEGIS Layered Homeland Defense development. The Committee notes that in both cases, the requirements have not been validated, nor have acquisition strategies—to include contracting strategies, test strategies, schedules, and cost estimates—been established. Absent the completion of the previously requested homeland defense architecture studies and assessments, the Committee finds it imprudent to embark on new, ill-defined acquisition programs at this time and recommends funding for limited concept studies for both layered defense options only.

Hypersonic and Ballistic Tracking Space Sensor.—The fiscal year 2021 President's budget request includes no funds for MDA to continue the development of a Hypersonic and Ballistic Tracking Space Sensor [HBTSS] program, which is required to detect and track hypersonic threats and ballistic missiles. The Committee notes that MDA began this program in fiscal year 2013 and that the Director, MDA has repeatedly identified HBTSS as a top acquisition program for MDA.

The Committee understands that the Space Development Agency [SDA] and MDA will share the responsibility for developing and deploying the HBTSS architecture and constellation under a joint Memorandum of Agreement that defines each agency's roles and responsibilities, and notes that SDA's development efforts are fully funded elsewhere within the Research, Development, Test and Evaluation, Defense-Wide appropriation. The Committee notes that with the fiscal year 2021 budget request, the Director, MDA, in response to Senate Report 116–103, submitted to the congressional defense committees a limited acquisition strategy for HBTSS. In particular, details regarding the overall space architecture to be developed and fielded by SDA and MDA and cost estimate were not included. Therefore, the Committee directs the Directors, SDA and MDA, to jointly provide to the congressional defense committees, with submission of the President's fiscal year 2022 request, the comprehensive acquisition strategy for HBTSS, including the components of the architecture, respective fielding plans, contract-type determinations and rationales therefor, plans for technical data management, integrated master test plans and integrated master schedules, as well as the cost estimate by element and for the overall strategy. The Committee recommends \$140,000,000 for MDA's HBTSS sensor efforts, to include a transfer of \$20,000,000 of funds for HBTSS requested within SDA's budget, and expects this program to be fully funded in MDA's and SDA's future budget submissions.

Budgeting for Missile Defense Agency Test Events.—The fiscal year 2021 President's budget request includes \$1,287,008,000 for

Missile Defense Agency test events and associated test infrastructure. The Committee strongly supports regular and realistic testing of the ballistic missile defense system to prove out missile defense capabilities, increase engagement capability and capacity, and build warfighter confidence. However, the Committee is concerned by the repeated volatility of the MDA's annual test plans resulting in schedule adjustments, test delays, and the cancellation of previously planned and budgeted flight tests in the year of execution. The Committee recommends funding MDA's fiscal year 2021 budget request for test events per the supplemental test event budget briefing materials provided to the Committee, as modified by the table of "Committee Recommended Adjustments" in this explanatory statement, and designates MDA's test budget as a congressional special interest item for the purpose of Base for Reprogramming.

Homeland Defense Radar—Hawaii.—The President's fiscal year 2021 budget request includes no funds to continue acquisition of a Homeland Defense Radar on Hawaii. The Committee notes that a discrimination radar on Hawaii is an important part of the architecture for U.S. homeland defense and that MDA awarded a fixed-price incentive contract for the production of this radar in December, 2018. In order to maintain efficient production of the radar, the Committee recommends an additional \$65,000,000 only for the Homeland Defense Radar—Hawaii [HDR–H].

The Committee understands that the site selection for the radar has been delayed due to locations previously under consideration no longer being considered viable, and that one alternate location ["#4"] on the Pacific Missile Range Facility [PMRF] will be added to the Environmental Impact Statement for full environmental analysis. The Committee looks forward to receiving the results of that analysis in a timely manner. Further, the Committee directs the Director of MDA to submit a report to the congressional defense committees, not later than 30 days after the enactment of this act, regarding the viability of PMRF site #4 as an alternative site for HDR–H and directs that this report shall detail the planning process between MDA and the Navy regarding validation of PMRF site #4 as an alternative site, to include steps taken to complete an assessment of a radar's impact on PMRF training range operations; and include an estimated timeline for completion of the environmental review and issuance of a record of decision. In addition, the Committee directs the Secretary of the Navy and the Commander, U.S. Pacific Fleet, to separately provide to the congressional defense committees, not later than with submission of the fiscal year 2022 President's budget request, an independent assessment regarding the impact of locating a Homeland Defense Radar—Hawaii at PMRF site #4 on Navy and Marine Corps operations, including any mitigations the Navy and Marine Corps would require and associated cost estimates.

AEGIS Baselines Budget Estimates.—As previously expressed in Senate Report 116–103, the Committee remains concerned with the lack of stability of the scope and costs of AEGIS "baselines" and inadequate budget justification materials. The MDA Program Executive, Sea-Based Weapons Systems, and the Department of the Navy Program Executive Officer, Integrated Warfare Systems, are di-

rected to provide to the congressional defense committees, not later than 30 days after enactment of this act, a joint acquisition baseline for AEGIS development efforts.

JOINT STRIKE FIGHTER

F-35 Production.—The fiscal year 2021 President’s budget request includes 79 F-35 Joint Strike Fighters [JSF], 19 fewer than were provided in the Department of Defense Appropriations Act, 2020 (Public Law 116-93). The Committee notes that the Department of Defense continues to request fewer than 60 F-35A variants and that the F-35B procurement profile was reduced to 10 aircraft in the fiscal year 2021 President’s budget request, five fewer than were planned in the fiscal year 2020 President’s budget for fiscal year 2021. The Committee notes that the reduction in F-35Bs was partially offset by an increase in the Marine Corps’ request for F-35Cs as part of force structure decisions. As a result, the Committee recommends an increase of \$1,129,000,000 to procure 12 additional F-35As in fiscal year 2021, as delineated in the Air Force’s unfunded priorities list. In addition, the Committee recommends \$525,500,000 to procure five additional F-35Cs for the Navy and Marine Corps.

The Committee understands that the Department of Defense took several actions in prior years to prepare for Turkey’s removal from the F-35 program, including changes to its supply base and supply chain to accommodate the loss of Turkish industrial participation. However, the Committee notes that full transition away from Turkish parts will not occur until delivery of Lot 14 is complete. Therefore, not later than 60 days following enactment of this act, and quarterly thereafter through final delivery of lot 14 aircraft, the Committee directs the Program Executive Officer, F-35 Joint Program Office, to submit a report to the congressional defense committees on the status of contributions by Turkish suppliers to the F-35 supply chain. The report shall also include efforts by the prime contractor and the Department to ensure compliance with section 1245 of the National Defense Authorization Act for Fiscal Year 2020 (Public Law 116-92) and updates on the production and delivery schedule for lot 14 aircraft.

F-35 Parts Reimbursement.—The Committee understands that the prime vendor for the Joint Strike Fighter and the Department of Defense have reached an agreement regarding reimbursement to the Department for parts delivered that were considered inadequate for installation. The Committee directs the Program Executive Officer, F-35 Joint Program Office, in concert with the Assistant Secretary of the Air Force (Acquisition, Technology and Logistics) and the Assistant Secretary of the Navy (Research, Development and Acquisition) to include in the President’s budget request for fiscal year 2022 budgetary information that reflects the sum of the credited funds and the budgetary lines in which the Service will apply those credits to reduce program costs.

Budgeting for F-35 Modernization.—The fiscal year 2021 President’s budget request includes \$14,186,886,000 for development production and sustainment of the F-35, including \$1,578,760,000 for follow-on modernization of the F-35A, F-35B and F-35C aircraft that will ultimately provide 513 additional individual capabili-

ties. The Committee notes that the Department of Defense has budgeted \$5,731,731,000 from fiscal year 2021 through 2025 for these follow-on modernization efforts and that the total estimate for the follow-on modernization program is \$17,900,000,000. The Committee continues to support follow-on modernization of the F-35, and despite some concerns over the ability to measure delivered software updates against planned capabilities, the synchronization of capability of fielded aircraft, and the ability to maintain training cycles, does not object to the Department's adopted acquisition strategy of "Continuous Capability Development and Delivery [C2D2]" for follow-on modernization at this time. However, the Committee is deeply concerned with the Department's approach to budgeting for C2D2 and the lack of detail in the budget justification materials. For instance, the "R-2A Project Justification" and "R-3 Project Cost Analysis" for Air Force, Navy, and Marine Corps C2D2 budget exhibits do not trace to funds requested in the respective program elements for that fiscal year, nor to the project level execution data provided during the congressional budget review process. Further, the Committee is concerned by project level funding adjustments in the year of budget execution, as well as by repeated changes to the budget request for follow-on modernization following submission of the budget request to the Congress.

The Committee believes that in order to ensure visibility into follow-on modernization cost and performance, and traceability of appropriated and requested funding to fielded capabilities, the program element and project structure for F-35 C2D2 need to be revised, as detailed in the tables of Committee Recommended Adjustments accompanying the Research, Development, Test and Evaluation, Navy and Research, Development, Test and Evaluation, Air Force appropriation accounts in this explanatory statement. The Program Executive Officer, F-35 Joint Program Office [JPO], is directed to follow this revised program element and project structure for C2D2 in future budget submissions, to include all justification materials and budget briefs. Further, while the Committee appreciates visibility into international contributions to the C2D2 program, the Committee recommends appropriations for U.S. requirements only. Therefore, the budget justification materials should only reflect the request for those appropriations.

Economic Order Quantity.—The fiscal year 2021 President's budget request for F-35 includes \$493,000,000 for economic order quantity [EOQ] materials for 254 U.S. F-35 aircraft to be procured in fiscal years 2021 through 2023 (Lots 15-17). The Committee notes that this is the second and final tranche of EOQ requested by Program Executive Officer, F-35 Joint Program Office [JPO] for Lot 15-17 aircraft following \$544,000,000 requested by the JPO and appropriated by the Congress in fiscal year 2020 for that purpose. The Committee notes that EOQ authorization and appropriations typically provide bulk purchasing authority of components under a multi-year procurement per 10 U.S.C. 2306(b), and that requesting authority and funding for EOQ outside of a certified multi-year procurement is highly unusual. Nevertheless, in order to achieve program cost savings in excess of \$400,000,000, the JPO first requested and Congress authorized and appropriated EOQ absent a multi-year procurement for F-35 in fiscal year 2018 for air-

craft purchased in fiscal years 2018 through 2020 (Lots 12–14). However, the Committee notes that the savings estimated by the JPO in support of that EOQ did not materialize to the extent projected. Further, the Committee notes that despite receiving EOQ as requested in fiscal year 2020 for 270 U.S. aircraft to be procured in fiscal years 2021 through 2023 (Lots 15–17), the Department in its fiscal year 2021 President’s budget submission reduced the quantity of U.S. aircraft to be procured in Lots 15–17, calling into question the value of purchasing bulk material using EOQ authority and appropriations, and the ability to generate the savings previously estimated.

Given the lack of savings materialized and continued adjustments to F–35 aircraft quantities year-over-year, the Committee questions whether appropriations for EOQ should continue to be provided to the F–35 program. However, the Committee notes that changes to funding, contracting, and acquisition strategies mid-stream could have detrimental effects on program costs and the supplier base and therefore recommends fully funding the EOQ requested in fiscal year 2021 for Lots 15–17. The Committee understands that this is the final EOQ request for these aircraft. Further, the Committee directs the Director, Cost Assessment and Program Evaluation, to submit to the congressional defense committees, with the fiscal year 2022 President’s budget request, an estimate of cost savings materialized for Lot 15–17 aircraft directly resulting from EOQ appropriated in fiscal years 2020 and 2021. Finally, the Committee recommends a rescission of \$28,167,000 for fiscal year 2020 EOQ for Lot 15–17 aircraft the JPO no longer plans to procure.

CLOUD COMPUTING SERVICES BUDGET EXHIBIT

The Committee recognizes the efforts of the Department of Defense [DOD] Chief Information Officer to compile the cloud computing services budget exhibit titled “DOD fiscal year 2021 Cloud Profile and Budget Estimates.” While the funding information is helpful, the Committee believes it would be beneficial to include a more detailed narrative about what is being purchased and how it is linked to the overall DOD cloud strategy. Therefore, the Committee directs a separate narrative page to be included after the funding table for each military service and the defense agencies that includes the following narrative descriptions: (1) factors driving any funding changes between fiscal years by appropriation; (2) that particular military service’s strategy to implement cloud computing, including a timeline; (3) how that particular military service’s strategy will be incorporated into the DOD Enterprise Cloud Environment.

NEW BUDGET EXHIBIT CAPTURING SAVINGS FROM PROPOSED FORCE STRUCTURE CHANGES

The Committee recognizes that budgetary pressures associated with balancing near-term readiness and future modernization priorities frequently result in the military services proposing force structure divestitures and retirements. Despite the magnitude of these decisions, there is not a clear crosswalk to the budget jus-

tification materials submitted with the President's budget request that highlights detailed funding implications.

The Committee believes a new budget exhibit showing the savings associated with proposals to divest or retire force structure would provide a more comprehensive explanation of the decisions used to formulate the budget request. Therefore, the Committee directs the Under Secretary of Defense (Comptroller) and the Assistant Secretary of the Air Force (Financial Management and Comptroller) to work together with the House and Senate Appropriations Committees on a budget exhibit that will display the savings built into the budget for aircraft retirements and divestitures to be submitted with each President's budget request. The display shall have a separate page for each aircraft type/model/series that shall include, but not be limited to, quantities of aircraft impacted, funding changes by appropriation and line item through the entire future year's defense plan, and a narrative explaining how the funding change for each line was derived. The Committee expects discussions on this new budget exhibit to begin not later than 45 days after the enactment of this act and for the exhibit to be included in the justification materials with the fiscal year 2023 President's budget request.

This exhibit shall not only serve the purpose of demonstrating the savings associated with such proposals, but also the cost implications of any changes to the plan as proposed. Once the exhibit has been refined for Air Force aircraft divestiture and retirements, the Committee will consider expanding the scope to include changes in force structure as proposed by other military services going forward.

USS BONHOMME RICHARD

The fire on the USS *Bonhomme Richard* broke out the morning of July 12, 2020, while pier side in San Diego, California, undergoing scheduled maintenance. The Committee understands that the Navy is in the process of assessing the extent of the electrical, structural and mechanical damages to evaluate whether the amphibious assault ship, commissioned in 1998, is salvageable. The Committee recommends an increase of \$30,000,000 to fund immediate expenses during this damage assessment phase. The Committee is eager to learn about the factors the Navy is examining to determine the way ahead and expects to remain informed about possible courses of action.

PACIFIC DETERRENCE INITIATIVE

The Committee recognizes the importance of the Indo-Pacific region in the implementation of the 2018 National Defense Strategy. Further, the Committee notes that additional investments requested by the Commander of United States Indo-Pacific Command through the submission of the fiscal year 2021 unfunded priority list directly support the National Defense Strategy's direction to shape the security environment, reassure allies and partners, and dissuade potential adversaries. However, the Committee is concerned that the Department of Defense has not applied significant prioritization to initiatives in the region.

Therefore, the Committee recommends program increases to the following appropriations in support of the Pacific Deterrence Initiative: Operations and Maintenance, Army; Operations and Maintenance, Navy; Operations and Maintenance, Air Force; Other Procurement, Air Force; Research, Development, Test and Evaluation, Air Force; and Drug Interdiction and Counter-Drug Activities, Defense, as detailed in the tables of “Committee Recommended Adjustments” accompanying those appropriations accounts.

SUPPORT TO HHS FOR THE STRATEGIC NATIONAL STOCKPILE

The Committee recognizes the Department of the Army’s capabilities in additive manufacturing that may enhance preparedness and be leveraged in the event of a public health emergency requiring activation of critically needed medical supplies from the Strategic National Stockpile. The Committee urges the Secretary of Defense to work with the Secretary of Health and Human Services [HHS] to provide technical manufacturing expertise to the Strategic National Stockpile for the provision of components of medical supplies and devices to replenish depleted stocks, provide surge capacity, and maintain the stockpile over time. Further, the Committee directs the Secretary of Defense to submit a report to the Committee not later than 180 days after the enactment of this act detailing its work with HHS to support the Strategic National Stockpile.

READINESS

The Committee recommends an additional \$3,519,472,000 in title VIII and \$2,400,000,000 in title IX of this act to be transferred to the operation and maintenance accounts and be divided proportionately among the services and the National Guard and reserve components. This funding shall be used only to improve military readiness, including increased training, depot maintenance, and base operations support. None of the funding provided may be used for recruiting, marketing, or advertising programs. The funding provided is a congressional special interest item. The Secretary of Defense and the Service Secretaries are directed to submit a detailed spending plan by sub-activity group to the House and Senate Appropriations Committees not less than 30 days prior to the obligation of these funds. These transfers may be implemented 30 days after congressional notification unless an objection is received from either the House or Senate Appropriations Committees.

TITLE I
MILITARY PERSONNEL

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

The President's fiscal year 2021 budget requests a total of \$150,524,104,000 for military personnel appropriations. This request funds an Active component end strength of 1,351,500 and a Reserve component end strength of 802,000.

SUMMARY OF COMMITTEE ACTION

The Committee recommends military personnel appropriations totaling \$149,616,480,000 for fiscal year 2021. This is \$907,624,000 below the budget estimate.

Committee recommended military personnel appropriations for fiscal year 2021 are summarized below:

SUMMARY OF MILITARY PERSONNEL APPROPRIATIONS

[In thousands of dollars]

Account	2021 budget estimate	Committee recommendation	Change from budget estimate
Military Personnel:			
Military Personnel, Army	45,087,813	44,938,027	- 149,786
Military Personnel, Navy	33,892,369	33,737,865	- 154,504
Military Personnel, Marine Corps	14,840,871	14,582,146	- 258,725
Military Personnel, Air Force	32,901,670	32,850,910	- 50,760
Reserve Personnel:			
Reserve Personnel, Army	5,106,956	5,062,551	- 44,405
Reserve Personnel, Navy	2,240,710	2,192,088	- 48,622
Reserve Personnel, Marine Corps	868,694	829,491	- 39,203
Reserve Personnel, Air Force	2,207,823	2,193,170	- 14,653
National Guard Personnel:			
National Guard Personnel, Army	8,830,111	8,702,813	- 127,298
National Guard Personnel, Air Force	4,547,087	4,527,419	- 19,668
Total	150,524,104	149,616,480	- 907,624

Committee recommended end strengths for fiscal year 2021 are summarized below:

RECOMMENDED END STRENGTH

	2020 authorization	2021 budget estimate	Committee recommendation	Change from budget estimate
Active:				
Army	480,000	485,900	485,000	- 900

RECOMMENDED END STRENGTH—Continued

	2020 authorization	2021 budget estimate	Committee recommendation	Change from budget estimate
Navy	340,500	347,800	346,730	- 1,070
Marine Corps	186,200	184,100	180,000	- 4,100
Air Force	332,800	333,700	333,475	- 225
Subtotal	1,339,500	1,351,500	1,345,205	- 6,295
Selected Reserve:				
Army Reserve	189,500	189,800	189,800	.....
Navy Reserve	59,000	58,800	58,800	.....
Marine Corps Reserve	38,500	38,500	38,500	.....
Air Force Reserve	70,100	70,300	70,300	.....
Army National Guard	336,000	336,500	336,500	.....
Air National Guard	107,700	108,100	108,100	.....
Subtotal	800,800	802,000	802,000	.....
TOTAL	2,140,300	2,153,500	2,147,205	.....

Committee recommended end strengths for full-time support of the Reserve and Guard for fiscal year 2021 are summarized below:

RECOMMENDED ACTIVE GUARD AND RESERVE END STRENGTH

	2020 authorization	2021 budget estimate	Committee recommendation	Change from budget estimate
Active Guard and Reserve:				
Army Reserve	16,511	16,511	16,511	.....
Navy Reserve	10,155	10,215	10,215	.....
Marine Corps Reserve	2,386	2,386	2,386	.....
Air Force Reserve	4,431	5,256	5,256	.....
Army National Guard	30,595	30,595	30,595	.....
Air National Guard	22,637	25,333	25,333	.....
TOTAL	86,715	90,296	90,296	.....

REPROGRAMMING GUIDANCE FOR MILITARY PERSONNEL ACCOUNTS
(INCLUDING BASE AND OVERSEAS CONTINGENCY OPERATIONS
FUNDING)

The Committee directs the Secretary of Defense to submit the Base for Reprogramming (DD Form 1414) for each of the fiscal year 2021 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 explanatory statement are congressional special interest items for the pur-

pose 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 explanatory statement. Below threshold reprogrammings may not be used to either restore or reduce funding from congressional special interest items as identified on the DD Form 1414.

MILITARY PERSONNEL OVERVIEW

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

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

Boards of Review Reading Room.—The Committee notes that the military services have not re-instituted an Internet website exhibiting all decisions of the Boards of Correction of Military and Naval Records and the Discharge Review Boards as required by section 1552 of title 10 and Code of Federal Regulations 70.8 of title 32, United States Code. These decisions are of critical importance to veterans who received less than honorable or stigmatizing discharge characterizations from the military and who seek to upgrade or correct their record. Therefore, the Committee urges the military services to restore the online database of discharge upgrade case decisions previously available for public review not later than 90 days after the enactment of this act.

Military Personnel and Extremist Ideologies.—The Secretary of Defense shall, not later than 120 days after the enactment of this act, provide the congressional defense committees with an update to the report on military personnel and extremist or criminal groups submitted to Congress on January 24, 2020. The report shall describe new policy and personnel actions taken since the preceding report, and provide additional information on the types of extremist or criminal groups involved in such personnel actions. Details may be provided by a classified appendix, if required.

MILITARY PERSONNEL, ARMY

Appropriations, 2020	\$42,746,972,000
Budget estimate, 2021	45,087,813,000
Committee recommendation	44,938,027,000

The Committee recommends an appropriation of \$44,938,027,000. This is \$149,786,000 below the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

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

(In thousands of dollars)

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
	MILITARY PERSONNEL, ARMY			
	ACTIVITY 1: PAY AND ALLOWANCES OF OFFICERS			
5	BASIC PAY	7,718,303	7,718,303	.....
10	RETIRED PAY ACCRUAL	2,686,055	2,686,055	.....
11	THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS	97,203	97,203	.....
25	BASIC ALLOWANCE FOR HOUSING	2,236,517	2,236,517	.....
30	BASIC ALLOWANCE FOR SUBSISTENCE	294,761	294,761	.....
35	INCENTIVE PAYS	92,859	92,859	.....
40	SPECIAL PAYS	375,286	375,286	.....
45	ALLOWANCES	183,299	183,299	.....
50	SEPARATION PAY	67,499	67,499	.....
55	SOCIAL SECURITY TAX	588,377	588,377	.....
	TOTAL, BUDGET ACTIVITY 1	14,340,159	14,340,159	.....
	ACTIVITY 2: PAY AND ALLOWANCES OF ENLISTED PERSONNEL			
60	BASIC PAY	14,202,907	14,202,907	.....
65	RETIRED PAY ACCRUAL	4,949,153	4,949,153	.....
66	THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS	123,092	123,092	.....
80	BASIC ALLOWANCE FOR HOUSING	4,740,859	4,740,859	.....
85	INCENTIVE PAYS	87,963	87,963	.....
90	SPECIAL PAYS	883,084	883,084	.....
95	ALLOWANCES	712,600	712,600	.....
100	SEPARATION PAY	303,910	303,910	.....
105	SOCIAL SECURITY TAX	1,086,522	1,086,522	.....
	TOTAL, BUDGET ACTIVITY 2	27,090,090	27,090,090	.....
110	ACTIVITY 3: PAY AND ALLOWANCES OF CADETS ACADEMY CADETS	93,453	93,453	.....
115	ACTIVITY 4: SUBSISTENCE OF ENLISTED PERSONNEL BASIC ALLOWANCE FOR SUBSISTENCE	1,283,616	1,283,616	.....
120	SUBSISTENCE-IN-KIND	653,596	653,596	.....
121	FAMILY SUBSISTENCE SUPPLEMENTAL ALLOWANCE	12	12	.....

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
	TOTAL, BUDGET ACTIVITY 4	1,937,224	1,937,224	.....
	ACTIVITY 5: PERMANENT CHANGE OF STATION			
125	ACCESSION TRAVEL	146,226	146,226	.....
130	TRAINING TRAVEL	160,046	160,046	.....
135	OPERATIONAL TRAVEL	440,920	440,920	.....
140	ROTATIONAL TRAVEL	691,296	691,296	.....
145	SEPARATION TRAVEL	238,612	238,612	.....
150	TRAVEL OF ORGANIZED UNITS	1,747	1,747	.....
155	NON-TEMPORARY STORAGE	8,592	8,592	.....
160	TEMPORARY LODGING EXPENSE	38,508	38,508	.....
	TOTAL, BUDGET ACTIVITY 5	1,725,947	1,725,947	.....
	ACTIVITY 6: OTHER MILITARY PERSONNEL COSTS			
170	APPREHENSION OF MILITARY DESERTERS	253	253	.....
175	INTEREST ON UNIFORMED SERVICES SAVINGS	79	79	.....
180	DEATH GRATUITIES	41,400	41,400	.....
185	UNEMPLOYMENT BENEFITS	27,904	27,904	.....
195	EDUCATION BENEFITS	36	36	.....
200	ADOPTION EXPENSES	603	603	.....
210	TRANSPORTATION SUBSIDY	13,390	13,390	.....
215	PARTIAL DISLOCATION ALLOWANCE	112	112	.....
217	RESERVE OFFICERS TRAINING CORPS (ROTC)	107,570	107,570	.....
218	JUNIOR ROTC	30,409	30,409	.....
	TOTAL, BUDGET ACTIVITY 6	221,756	221,756	.....
	LESS REIMBURSABLES	-320,816	-320,816	.....
	UNDISTRIBUTED ADJUSTMENT		-149,786	-149,786
	TOTAL, ACTIVE FORCES, ARMY	45,087,813	44,938,027	-149,786
	TOTAL, TITLE I, MILITARY PERSONNEL, ARMY	45,087,813	44,938,027	-149,786
	TOTAL, TRICARE ACCRUAL PAYMENTS (PERMANENT, INDEFINITE AUTHORITY)(PUBLIC LAW 108-375) ..	2,351,000	2,351,000	.....
	TOTAL, MILITARY PERSONNEL, ARMY	47,438,813	47,289,027	-149,786

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
UNDIST	Improving funds management: Revised budget estimate .....	.....	-136,939	-136,939
UNDIST	Improving funds management: Rate adjustments .....	.....	-12,847	-12,847

MILITARY PERSONNEL, NAVY

Appropriations, 2020	\$31,710,431,000
Budget estimate, 2021	33,892,369,000
Committee recommendation	33,737,865,000

The Committee recommends an appropriation of \$33,737,865,000. This is \$154,504,000 below the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

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

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
	MILITARY PERSONNEL, NAVY			
	ACTIVITY 1: PAY AND ALLOWANCES OF OFFICERS			
5	BASIC PAY	4,717,199	4,717,199	.....
10	RETIRED PAY ACCRUAL	1,643,356	1,643,356	.....
11	THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS	76,465	76,465	.....
25	BASIC ALLOWANCE FOR HOUSING	1,682,998	1,682,998	.....
30	BASIC ALLOWANCE FOR SUBSISTENCE	176,042	176,042	.....
35	INCENTIVE PAYS	167,340	167,340	.....
40	SPECIAL PAYS	450,429	450,429	.....
45	ALLOWANCES	104,074	104,074	.....
50	SEPARATION PAY	39,298	39,298	.....
55	SOCIAL SECURITY TAX	359,783	359,783	.....
	TOTAL, BUDGET ACTIVITY 1	9,416,984	9,416,984	.....
	ACTIVITY 2: PAY AND ALLOWANCES OF ENLISTED PERSONNEL			
60	BASIC PAY	10,756,652	10,756,652	.....
65	RETIRED PAY ACCRUAL	3,751,728	3,751,728	.....
66	THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS	129,326	129,326	.....
80	BASIC ALLOWANCE FOR HOUSING	5,110,991	5,110,991	.....
85	INCENTIVE PAYS	112,674	112,674	.....
90	SPECIAL PAYS	1,072,415	1,072,415	.....
95	ALLOWANCES	553,063	553,063	.....
100	SEPARATION PAY	86,697	86,697	.....
105	SOCIAL SECURITY TAX	822,884	822,884	.....
	TOTAL, BUDGET ACTIVITY 2	22,396,430	22,396,430	.....
110	ACTIVITY 3: PAY AND ALLOWANCES OF MIDSHIPMEN MIDSHIPMEN	87,021	87,021	.....
115	ACTIVITY 4: SUBSISTENCE OF ENLISTED PERSONNEL BASIC ALLOWANCE FOR SUBSISTENCE	888,820	888,820	.....
120	SUBSISTENCE-IN-KIND	438,551	438,551	.....
121	FAMILY SUBSISTENCE SUPPLEMENTAL ALLOWANCE	5	5	.....
	TOTAL, BUDGET ACTIVITY 4	1,327,376	1,327,376	.....
125	ACTIVITY 5: PERMANENT CHANGE OF STATION ACCESSION TRAVEL	108,471	108,471	.....
130	TRAINING TRAVEL	88,092	88,092	.....
135	OPERATIONAL TRAVEL	274,131	274,131	.....
140	ROTATIONAL TRAVEL	323,056	323,056	.....
145	SEPARATION TRAVEL	130,324	130,324	.....
150	TRAVEL OF ORGANIZED UNITS	28,668	28,668	.....
155	NON-TEMPORARY STORAGE	15,647	15,647	.....
160	TEMPORARY LODGING EXPENSE	20,926	20,926	.....
	TOTAL, BUDGET ACTIVITY 5	989,315	989,315	.....
170	ACTIVITY 6: OTHER MILITARY PERSONNEL COSTS APPREHENSION OF MILITARY DESERTERS	43	43	.....
175	INTEREST ON UNIFORMED SERVICES SAVINGS	1,277	1,277	.....
180	DEATH GRATUITIES	24,800	24,800	.....
185	UNEMPLOYMENT BENEFITS	16,202	16,202	.....
195	EDUCATION BENEFITS	5,221	5,221	.....
200	ADOPTION EXPENSES	194	194	.....
210	TRANSPORTATION SUBSIDY	4,643	4,643	.....
215	PARTIAL DISLOCATION ALLOWANCE	34	34	.....

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
217	RESERVE OFFICERS TRAINING CORPS (ROTC)	22,896	22,896	.....
218	JUNIOR ROTC	15,533	15,533	.....
	TOTAL, BUDGET ACTIVITY 6	90,843	90,843	.....
	LESS REIMBURSABLES	- 415,600	- 415,600	.....
	UNDISTRIBUTED ADJUSTMENT .....	.....	- 154,504	- 154,504
	TOTAL, ACTIVE FORCES, NAVY	33,892,369	33,737,865	- 154,504
	TOTAL, TITLE I, MILITARY PERSONNEL, NAVY	33,892,369	33,737,865	- 154,504
	TOTAL, TRICARE ACCRUAL PAYMENTS (PERMANENT, INDEFINITE AUTHORITY)(PUBLIC LAW 108-375) ..	1,673,000	1,673,000	.....
	TOTAL, MILITARY PERSONNEL, NAVY	35,565,369	35,410,865	- 154,504

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
UNDIST	Improving funds management: Revised budget estimate .....	.....	- 125,237	- 125,237
UNDIST	Improving funds management: Rate adjustments .....	.....	- 29,267	- 29,267

MILITARY PERSONNEL, MARINE CORPS

Appropriations, 2020	\$14,098,666,000
Budget estimate, 2021	14,840,871,000
Committee recommendation	14,582,146,000

The Committee recommends an appropriation of \$14,582,146,000. This is \$258,725,000 below the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

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

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
	MILITARY PERSONNEL, MARINE CORPS			
	ACTIVITY 1: PAY AND ALLOWANCES OF OFFICERS			
5	BASIC PAY	1,777,306	1,777,306	.....
10	RETIRED PAY ACCRUAL	619,614	619,614	.....
11	THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS	37,597	37,597	.....
25	BASIC ALLOWANCE FOR HOUSING	579,290	579,290	.....
30	BASIC ALLOWANCE FOR SUBSISTENCE	68,427	68,427	.....
35	INCENTIVE PAYS	52,065	52,065	.....
40	SPECIAL PAYS	5,609	5,609	.....
45	ALLOWANCES	38,083	38,083	.....
50	SEPARATION PAY	21,991	21,991	.....
55	SOCIAL SECURITY TAX	133,108	133,108	.....

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
	TOTAL, BUDGET ACTIVITY 1	3,333,090	3,333,090	.....
	ACTIVITY 2: PAY AND ALLOWANCES OF ENLISTED PERSONNEL			
60	BASIC PAY	5,479,139	5,479,139	.....
65	RETIRED PAY ACCRUAL	1,908,158	1,908,158	.....
66	THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS	147,368	147,368	.....
80	BASIC ALLOWANCE FOR HOUSING	1,711,770	1,711,770	.....
85	INCENTIVE PAYS	8,354	8,354	.....
90	SPECIAL PAYS	200,417	192,217	- 8,200
95	ALLOWANCES	293,563	293,563	.....
100	SEPARATION PAY	93,052	93,052	.....
105	SOCIAL SECURITY TAX	418,564	418,564	.....
	TOTAL, BUDGET ACTIVITY 2	10,260,385	10,252,185	- 8,200
	ACTIVITY 4: SUBSISTENCE OF ENLISTED PERSONNEL			
115	BASIC ALLOWANCE FOR SUBSISTENCE	422,455	422,455	.....
120	SUBSISTENCE-IN-KIND	383,725	383,725	.....
121	FAMILY SUBSISTENCE SUPPLEMENTAL ALLOWANCE	10	10	.....
	TOTAL, BUDGET ACTIVITY 4	806,190	806,190	.....
	ACTIVITY 5: PERMANENT CHANGE OF STATION			
125	ACCESSION TRAVEL	50,440	50,440	.....
130	TRAINING TRAVEL	14,824	14,824	.....
135	OPERATIONAL TRAVEL	156,014	156,014	.....
140	ROTATIONAL TRAVEL	119,306	119,306	.....
145	SEPARATION TRAVEL	83,046	83,046	.....
150	TRAVEL OF ORGANIZED UNITS	632	632	.....
155	NON-TEMPORARY STORAGE	7,191	7,191	.....
160	TEMPORARY LODGING EXPENSE	5,172	5,172	.....
	TOTAL, BUDGET ACTIVITY 5	436,625	436,625	.....
	ACTIVITY 6: OTHER MILITARY PERSONNEL COSTS			
170	APPREHENSION OF MILITARY DESERTERS	278	278	.....
175	INTEREST ON UNIFORMED SERVICES SAVINGS	19	19	.....
180	DEATH GRATUITIES	13,500	13,500	.....
185	UNEMPLOYMENT BENEFITS	8,324	8,324	.....
195	EDUCATION BENEFITS	142	142	.....
200	ADOPTION EXPENSES	140	140	.....
210	TRANSPORTATION SUBSIDY	1,568	1,568	.....
215	PARTIAL DISLOCATION ALLOWANCE	22	22	.....
216	SGLI EXTRA HAZARD PAYMENTS	2,134	2,134	.....
218	JUNIOR ROTC	3,928	3,928	.....
	TOTAL, BUDGET ACTIVITY 6	30,055	30,055	.....
	LESS REIMBURSABLES	- 25,474	- 25,474	.....
	UNDISTRIBUTED ADJUSTMENT .....	.....	- 250,525	- 250,525
	TOTAL, ACTIVE FORCES, MARINE CORPS	14,840,871	14,582,146	- 258,725
	TOTAL, TITLE I, MILITARY PERSONNEL, MARINE CORPS	14,840,871	14,582,146	- 258,725
	TOTAL, TRICARE ACCRUAL PAYMENTS (PERMANENT, INDEFINITE AUTHORITY)(PUBLIC LAW 108-375) ..	905,000	905,000	.....
	TOTAL, MILITARY PERSONNEL, MARINE CORPS	15,745,871	15,487,146	- 258,725

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
90	Special Pays	200,417	192,217	- 8,200
	Improving funds management: Special pays excess growth			- 8,200
UNDIST	Improving funds management: Revised budget estimate		- 233,407	- 233,407
UNDIST	Improving funds management: Rate adjustments		- 17,118	- 17,118

MILITARY PERSONNEL, AIR FORCE

Appropriations, 2020	\$31,239,149,000
Budget estimate, 2021	32,901,670,000
Committee recommendation	32,850,910,000

The Committee recommends an appropriation of \$32,850,910,000. This is \$50,760,000 below the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

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

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
	MILITARY PERSONNEL, AIR FORCE			
	ACTIVITY 1: PAY AND ALLOWANCES OF OFFICERS			
5	BASIC PAY	5,641,144	5,641,144	
10	RETIRE PAY ACCRUAL	1,956,196	1,956,196	
11	THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS	87,627	87,627	
25	BASIC ALLOWANCE FOR HOUSING	1,661,550	1,661,550	
30	BASIC ALLOWANCE FOR SUBSISTENCE	208,359	208,359	
35	INCENTIVE PAYS	379,467	379,467	
40	SPECIAL PAYS	344,723	344,723	
45	ALLOWANCES	122,425	122,425	
50	SEPARATION PAY	37,166	37,166	
55	SOCIAL SECURITY TAX	430,816	430,816	
	TOTAL, BUDGET ACTIVITY 1	10,869,473	10,869,473	
	ACTIVITY 2: PAY AND ALLOWANCES OF ENLISTED PERSONNEL			
60	BASIC PAY	10,225,543	10,225,543	
65	RETIRE PAY ACCRUAL	3,557,876	3,557,876	
66	THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS	99,527	99,527	
80	BASIC ALLOWANCE FOR HOUSING	4,106,580	4,106,580	
85	INCENTIVE PAYS	64,585	64,585	
90	SPECIAL PAYS	374,755	374,755	
95	ALLOWANCES	591,495	591,495	
100	SEPARATION PAY	109,441	109,441	
105	SOCIAL SECURITY TAX	782,254	782,254	
	TOTAL, BUDGET ACTIVITY 2	19,912,056	19,912,056	
	ACTIVITY 3: PAY AND ALLOWANCES OF CADETS			
110	ACADEMY CADETS	85,426	85,426	

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
	ACTIVITY 4: SUBSISTENCE OF ENLISTED PERSONNEL			
115	BASIC ALLOWANCE FOR SUBSISTENCE	1,058,397	1,058,397	.....
120	SUBSISTENCE-IN-KIND	150,966	150,966	.....
	TOTAL, BUDGET ACTIVITY 4	1,209,363	1,209,363	.....
	ACTIVITY 5: PERMANENT CHANGE OF STATION			
125	ACCESSION TRAVEL	91,776	91,776	.....
130	TRAINING TRAVEL	59,686	59,686	.....
135	OPERATIONAL TRAVEL	364,544	364,544	.....
140	ROTATIONAL TRAVEL	467,081	467,081	.....
145	SEPARATION TRAVEL	131,612	131,612	.....
150	TRAVEL OF ORGANIZED UNITS	3,430	3,430	.....
155	NON-TEMPORARY STORAGE	26,026	26,026	.....
160	TEMPORARY LODGING EXPENSE	34,893	34,893	.....
	TOTAL, BUDGET ACTIVITY 5	1,179,048	1,179,048	.....
	ACTIVITY 6: OTHER MILITARY PERSONNEL COSTS			
170	APPREHENSION OF MILITARY DESERTERS	18	18	.....
175	INTEREST ON UNIFORMED SERVICES SAVINGS	2,333	2,333	.....
180	DEATH GRATUITIES	14,900	14,900	.....
185	UNEMPLOYMENT BENEFITS	5,515	5,515	.....
195	EDUCATION BENEFITS	13	13	.....
200	ADOPTION EXPENSES	416	416	.....
210	TRANSPORTATION SUBSIDY	3,164	3,164	.....
215	PARTIAL DISLOCATION ALLOWANCE	629	629	.....
217	RESERVE OFFICERS TRAINING CORPS (ROTC)	44,236	44,236	.....
218	JUNIOR ROTC	18,451	18,451	.....
	TOTAL, BUDGET ACTIVITY 6	89,675	89,675	.....
	LESS REIMBURSABLES	- 443,371	- 443,371	.....
	UNDISTRIBUTED ADJUSTMENT .....	.....	- 50,760	- 50,760
	TOTAL, ACTIVE FORCES, AIR FORCE	32,901,670	32,850,910	- 50,760
	TOTAL, TITLE I, MILITARY PERSONNEL, AIR FORCE ..	32,901,670	32,850,910	- 50,760
	TOTAL, TRICARE ACCRUAL PAYMENTS (PERMANENT, INDEFINITE AUTHORITY)(PUBLIC LAW 108-375) ..	1,623,000	1,623,000	.....
	TOTAL, MILITARY PERSONNEL, AIR FORCE	34,524,670	34,473,910	- 50,760

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
UNDIST	Improving funds management: Revised budget estimate .....	.....	- 22,781	- 22,781
UNDIST	Improving funds management: Rate adjustments .....	.....	- 27,979	- 27,979

RESERVE PERSONNEL, ARMY

Appropriations, 2020	\$4,922,087,000
Budget estimate, 2021	5,106,956,000
Committee recommendation	5,062,551,000

The Committee recommends an appropriation of \$5,062,551,000. This is \$44,405,000 below the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

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

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
	RESERVE PERSONNEL, ARMY			
	ACTIVITY 1: RESERVE COMPONENT TRAINING AND SUPPORT			
10	PAY GROUP A TRAINING (15 DAYS & DRILLS 24/48)	1,619,895	1,619,895	.....
20	PAY GROUP B TRAINING (BACKFILL FOR ACTIVE DUTY)	59,136	59,136	.....
30	PAY GROUP F TRAINING (RECRUITS)	194,730	194,730	.....
40	PAY GROUP P TRAINING (PIPELINE RECRUITS)	4,357	4,357	.....
60	MOBILIZATION TRAINING	2,555	2,555	.....
70	SCHOOL TRAINING	233,785	233,785	.....
80	SPECIAL TRAINING	373,900	373,900	.....
90	ADMINISTRATION AND SUPPORT	2,475,281	2,475,281	.....
94	THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS	17,354	17,354	.....
100	EDUCATION BENEFITS	22,263	22,263	.....
120	HEALTH PROFESSION SCHOLARSHIP	64,468	64,468	.....
130	OTHER PROGRAMS	39,232	39,232	.....
	TOTAL, BUDGET ACTIVITY 1	5,106,956	5,106,956	.....
	UNDISTRIBUTED ADJUSTMENT .....	.....	- 44,405	- 44,405
	TOTAL, TITLE I, RESERVE PERSONNEL, ARMY	5,106,956	5,062,551	- 44,405
	TOTAL, TRICARE ACCRUAL PAYMENTS (PERMANENT, INDEFINITE AUTHORITY)(PUBLIC LAW 108-375) ..	418,000	418,000	.....
	TOTAL, RESERVE PERSONNEL, ARMY	5,524,956	5,480,551	- 44,405

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
UNDIST	Improving funds management: Revised budget estimate .....	.....	- 43,000	- 43,000
UNDIST	Improving funds management: Rate adjustments .....	.....	- 1,405	- 1,405

RESERVE PERSONNEL, NAVY

Appropriations, 2020	\$2,115,997,000
Budget estimate, 2021	2,240,710,000
Committee recommendation	2,192,088,000

The Committee recommends an appropriation of \$2,192,088,000. This is \$48,622,000 below the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

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

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
	RESERVE PERSONNEL, NAVY			
	ACTIVITY 1: RESERVE COMPONENT TRAINING AND SUPPORT			
10	PAY GROUP A TRAINING (15 DAYS & DRILLS 24/48)	757,736	757,736	.....
20	PAY GROUP B TRAINING (BACKFILL FOR ACTIVE DUTY)	8,602	8,602	.....
30	PAY GROUP F TRAINING (RECRUITS)	51,337	51,337	.....
60	MOBILIZATION TRAINING	13,019	13,019	.....
70	SCHOOL TRAINING	62,049	62,049	.....
80	SPECIAL TRAINING	135,042	135,042	.....
90	ADMINISTRATION AND SUPPORT	1,145,197	1,145,197	.....
94	THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS	8,974	8,974	.....
100	EDUCATION BENEFITS	679	679	.....
120	HEALTH PROFESSION SCHOLARSHIP	58,075	58,075	.....
	TOTAL, BUDGET ACTIVITY 1	2,240,710	2,240,710	.....
	UNDISTRIBUTED ADJUSTMENT		-48,622	-48,622
	TOTAL, TITLE I, RESERVE PERSONNEL, NAVY	2,240,710	2,192,088	-48,622
	TOTAL, TRICARE ACCRUAL PAYMENTS (PERMANENT, INDEFINITE AUTHORITY)(PUBLIC LAW 108-375) ..	146,000	146,000	.....
	TOTAL, RESERVE PERSONNEL, NAVY	2,386,710	2,338,088	-48,622

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
UNDIST	Improving funds management: Revised budget estimate		-46,684	-46,684
UNDIST	Improving funds management: Rate adjustments		-1,938	-1,938

RESERVE PERSONNEL, MARINE CORPS

Appropriations, 2020	\$833,604,000
Budget estimate, 2021	868,694,000
Committee recommendation	829,491,000

The Committee recommends an appropriation of \$829,491,000. This is \$39,203,000 below the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

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

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
	RESERVE PERSONNEL, MARINE CORPS			
	ACTIVITY 1: RESERVE COMPONENT TRAINING AND SUPPORT			
10	PAY GROUP A TRAINING (15 DAYS & DRILLS 24/48)	299,914	299,914	.....
20	PAY GROUP B TRAINING (BACKFILL FOR ACT DUTY)	46,242	46,242	.....
30	PAY GROUP F TRAINING (RECRUITS)	136,283	136,283	.....
60	MOBILIZATION TRAINING	1,706	1,706	.....

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
70	SCHOOL TRAINING	25,154	25,154	.....
80	SPECIAL TRAINING	56,584	56,584	.....
90	ADMINISTRATION AND SUPPORT	284,433	284,433	.....
94	THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS	5,969	5,969	.....
95	PLATOON LEADER CLASS	7,601	7,601	.....
100	EDUCATION BENEFITS	4,808	4,808	.....
	TOTAL, BUDGET ACTIVITY 1	868,694	868,694	.....
	UNDISTRIBUTED ADJUSTMENT		- 39,203	- 39,203
	TOTAL, TITLE I, RESERVE PERSONNEL, MARINE CORPS	868,694	829,491	- 39,203
	TOTAL, TRICARE ACCRUAL PAYMENTS (PERMANENT, INDEFINITE AUTHORITY)(PUBLIC LAW 108-375) ..	82,000	82,000	.....
	TOTAL, RESERVE PERSONNEL, MARINE CORPS	950,694	911,491	- 39,203

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
UNDIST	Improving funds management: Revised budget estimate		- 38,378	- 38,378
UNDIST	Improving funds management: Rate adjustments		- 825	- 825

RESERVE PERSONNEL, AIR FORCE

Appropriations, 2020	\$2,014,190,000
Budget estimate, 2021	2,207,823,000
Committee recommendation	2,193,170,000

The Committee recommends an appropriation of \$2,193,170,000. This is \$14,653,000 below the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

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

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
	RESERVE PERSONNEL, AIR FORCE			
	ACTIVITY 1: RESERVE COMPONENT TRAINING AND SUPPORT			
10	PAY GROUP A TRAINING (15 DAYS & DRILLS 24/48)	718,645	718,645	.....
20	PAY GROUP B TRAINING (BACKFILL FOR ACTIVE DUTY)	106,715	106,715	.....
30	PAY GROUP F TRAINING (RECRUITS)	51,699	51,699	.....
40	PAY GROUP P TRAINING (PIPELINE RECRUITS)	2,412	2,412	.....
60	MOBILIZATION TRAINING	587	587	.....
	SCHOOL TRAINING	196,375	196,375	.....
80	SPECIAL TRAINING	356,044	356,044	.....
90	ADMINISTRATION AND SUPPORT	689,523	689,523	.....
94	THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS	5,406	5,406	.....

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
100	EDUCATION BENEFITS	12,780	12,780	.....
120	HEALTH PROFESSION SCHOLARSHIP	64,599	64,599	.....
130	OTHER PROGRAMS (ADMIN & SUPPORT)	3,038	3,038	.....
	TOTAL, BUDGET ACTIVITY 1	2,207,823	2,207,823	.....
	UNDISTRIBUTED ADJUSTMENT .....	.....	- 14,653	- 14,653
	TOTAL, TITLE I, RESERVE PERSONNEL, AIR FORCE ..	2,207,823	2,193,170	- 14,653
	TOTAL, TRICARE ACCRUAL PAYMENTS (PERMANENT, INDEFINITE AUTHORITY)(PUBLIC LAW 108-375) ..	150,000	150,000	.....
	TOTAL, RESERVE PERSONNEL, AIR FORCE	2,357,823	2,343,170	- 14,653

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
UNDIST	Improving funds management: Revised budget estimate .....	.....	- 13,828	- 13,828
UNDIST	Improving funds management: Rate adjustments .....	.....	- 825	- 825

NATIONAL GUARD PERSONNEL, ARMY

Appropriations, 2020	\$8,704,320,000
Budget estimate, 2021	8,830,111,000
Committee recommendation	8,702,813,000

The Committee recommends an appropriation of \$8,702,813,000. This is \$127,298,000 below the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

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

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
	NATIONAL GUARD PERSONNEL, ARMY			
	ACTIVITY 1: RESERVE COMPONENT TRAINING AND SUPPORT			
10	PAY GROUP A TRAINING (15 DAYS & DRILLS 24/48)	2,711,190	2,711,190	.....
30	PAY GROUP F TRAINING (RECRUITS)	549,848	549,848	.....
40	PAY GROUP P TRAINING (PIPELINE RECRUITS)	45,649	45,649	.....
70	SCHOOL TRAINING	575,633	575,633	.....
80	SPECIAL TRAINING	817,826	824,326	+ 6,500
90	ADMINISTRATION AND SUPPORT	4,052,288	4,052,288	.....
94	THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS	29,324	29,324	.....
100	EDUCATION BENEFITS	48,353	48,353	.....
	TOTAL, BUDGET ACTIVITY 1	8,830,111	8,836,611	+ 6,500
	UNDISTRIBUTED ADJUSTMENT .....	.....	- 135,332	- 135,332
	TRAUMA TRAINING .....	.....	1,534	+ 1,534

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
	TOTAL, TITLE I, NATIONAL GUARD PERSONNEL, ARMY	8,830,111	8,702,813	- 127,298
	TOTAL, TRICARE ACCRUAL PAYMENTS (PERMANENT, INDEFINITE AUTHORITY)(PUBLIC LAW 108-375) ..	744,000	744,000	.....
	TOTAL, NATIONAL GUARD PERSONNEL, ARMY	9,574,111	9,446,813	- 127,298

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
80	Special Training	817,826	824,326	+ 6,500
	Program increase: Wildfire training .....	.....	.....	+ 6,500
UNDIST	Improving funds management: Revised budget estimate .....	.....	- 131,681	- 131,681
UNDIST	Improving funds management: Rate adjustments .....	.....	- 3,651	- 3,651
UNDIST	Program increase: Advanced trauma training .....	.....	1,534	+ 1,534

NATIONAL GUARD PERSONNEL, AIR FORCE

Appropriations, 2020	\$4,060,651,000
Budget estimate, 2021	4,547,087,000
Committee recommendation	4,527,419,000

The Committee recommends an appropriation of \$4,527,419,000. This is \$19,668,000 below the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

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

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
	NATIONAL GUARD PERSONNEL, AIR FORCE			
	ACTIVITY 1: RESERVE COMPONENT TRAINING AND SUPPORT			
10	PAY GROUP A TRAINING (15 DAYS & DRILLS 24/48)	949,382	949,382	.....
30	PAY GROUP F TRAINING (RECRUITS)	97,078	97,078	.....
40	PAY GROUP P TRAINING (PIPELINE RECRUITS)	7,829	7,829	.....
70	SCHOOL TRAINING	361,527	361,527	.....
80	SPECIAL TRAINING	245,500	248,215	+ 2,715
90	ADMINISTRATION AND SUPPORT	2,857,955	2,857,955	.....
94	THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS	14,675	14,675	.....
100	EDUCATION BENEFITS	13,141	13,141	.....
	TOTAL, BUDGET ACTIVITY 1	4,547,087	4,549,802	+ 2,715
	UNDISTRIBUTED ADJUSTMENT .....	.....	- 24,625	- 24,625
	TRAUMA TRAINING .....	.....	2,242	+ 2,242
	TOTAL, TITLE I, NATIONAL GUARD PERSONNEL, AIR FORCE	4,547,087	4,527,419	- 19,668

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
	TOTAL, TRICARE ACCRUAL PAYMENTS (PERMANENT, INDEFINITE AUTHORITY)(PUBLIC LAW 108-375) ..	279,000	279,000	.....
	TOTAL, NATIONAL GUARD PERSONNEL, AIR FORCE ..	4,826,087	4,806,419	- 19,668

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
80	Special Training	245,500	248,215	+ 2,715
	Program increase: Wildfire training .....	.....	.....	+ 2,715
UNDIST	Improving funds management: Revised budget estimate .....	.....	- 24,625	- 24,625
UNDIST	Program increase: Advanced trauma training .....	.....	2,242	+ 2,242

TITLE II

OPERATION AND MAINTENANCE

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

The President's fiscal year 2021 budget requests a total of \$196,630,496,000 for operation and maintenance appropriations.

SUMMARY OF COMMITTEE ACTION

The Committee recommends operation and maintenance appropriations totaling \$194,797,478,000 for fiscal year 2021. This is \$1,833,018,000 below the budget estimate.

Committee recommended operation and maintenance appropriations for fiscal year 2021 are summarized below:

SUMMARY OF OPERATION AND MAINTENANCE APPROPRIATIONS

[In thousands of dollars]

Account	2021 budget estimate	Committee recommendation	Change from budget estimate
Operation and Maintenance:			
Operation and Maintenance, Army	40,312,968	39,675,024	- 637,944
Operation and Maintenance, Navy	49,692,742	49,091,602	- 601,140
Operation and Maintenance, Marine Corps	7,328,607	7,185,844	- 142,763
Operation and Maintenance, Air Force	34,750,597	34,539,699	- 210,898
Operation and Maintenance, Space Force	2,531,294	2,502,294	- 29,000
Operation and Maintenance, Defense-Wide	38,649,079	38,584,918	- 64,161
Operation and Maintenance, Army Reserve	2,934,717	2,885,717	- 49,000
Operation and Maintenance, Navy Reserve	1,127,046	1,103,046	- 24,000
Operation and Maintenance, Marine Corps Reserve	284,656	281,656	- 3,000
Operation and Maintenance, Air Force Reserve	3,350,284	3,251,284	- 99,000
Operation and Maintenance, Army National Guard	7,420,014	7,349,548	- 70,466
Operation and Maintenance, Air National Guard	6,753,642	6,784,996	+ 31,354
United States Court of Appeals for the Armed Forces	15,211	15,211	.....
Environmental Restoration, Army	207,518	207,518	.....
Environmental Restoration, Navy	335,932	352,932	+ 17,000
Environmental Restoration, Air Force	303,926	303,926	.....
Environmental Restoration, Defense-Wide	9,105	9,105	.....
Environmental Restoration, Formerly Used Defense Sites	216,587	216,587	.....
Overseas Humanitarian, Disaster, and Civic Aid	109,900	109,900	.....
Cooperative Threat Reduction Account	238,490	238,490	.....
Department of Defense Acquisition Workforce Development Account	58,181	108,181	+ 50,000
Total	196,630,496	194,797,478	- 1,833,018

REPROGRAMMING GUIDANCE FOR OPERATION AND MAINTENANCE
ACCOUNTS

(INCLUDING BASE AND OVERSEAS CONTINGENCY OPERATIONS
FUNDING)

The Committee directs the Secretary of Defense to submit the Base for Reprogramming (DD Form 1414) for each of the fiscal year 2021 appropriation accounts not later than 60 days after the enactment of this act. The Secretary of Defense is prohibited from executing any reprogramming or transfer of funds for any purpose other than originally appropriated until the aforementioned report is submitted to the House and Senate Appropriations Committees.

The Committee directs the Secretary of Defense to use the normal prior approval reprogramming procedures to transfer funds in the services' operation and maintenance accounts between O-1 budget activities, or between subactivity groups in the case of Operation and Maintenance, Defense-Wide, in excess of \$10,000,000. In addition, the Secretary of Defense shall follow prior approval reprogramming procedures for transfers in excess of \$10,000,000 out of the following readiness sub-activity groups:

Army:

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

Navy:

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

Marine Corps:

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

Air Force:

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

Air Force Reserve:

- Primary combat forces

Air National Guard:

- Aircraft operations

Additionally, the Committee directs the Secretary of Defense 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:
 - Recruiting and advertising
 - Operation and Maintenance, Army National Guard:
 - Other personnel support/recruiting and advertising

OPERATION AND MAINTENANCE BUDGET EXECUTION DATA

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

OPERATION AND MAINTENANCE SPECIAL INTEREST ITEMS

Items for which additional funds have been provided or have been specifically reduced as shown in the project level tables or in paragraphs using the phrase “only for” or “only to” in the Committee explanatory statement 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 explanatory statement. Below threshold reprogrammings may not be used to either restore or reduce funding from congressional special interest items as identified on the DD Form 1414.

OPERATION AND MAINTENANCE OVERVIEW

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

Department of Defense Audit.—The Committee and the Secretary of Defense share a common goal of achieving a clean audit opinion for the Department of Defense. Transparency, accountability, and business process reform are some of the benefits that stakeholders, as well as taxpayers, will see from the results of the Department of Defense audit effort. While most audit discussions focus on the business reform efforts and accountability benefits, the costs of the audit are not easily identifiable. In March 2020, the Under Sec-

retary of Defense (Comptroller) provided the following cost breakout to the Senate Armed Services Committee and Senate Defense Appropriations Subcommittee after a briefing on the fiscal year 2019 audit results:

Independent Public Accountant (IPA) Contracts	\$186,000,000
Systems and audit services	357,000,000
Remediation	357,000,000
Total Audit Costs	900,000,000

Although the above breakout is helpful to provide context, the Committee has been unsuccessful in obtaining detail by appropriation and budget line item. The Committee acknowledges the difficulties in identifying cost elements that precisely fall under the audit umbrella and in distinguishing between direct audit costs and indirect costs to improve internal controls. However, the Committee considers this level of detail necessary to develop a cost baseline to support the congressional defense committees' review of future audit initiatives.

Therefore, the Committee directs the Under Secretary of Defense (Comptroller), in coordination with the respective Service Financial Manager and Comptroller of the Army, Navy, and Air Force, to develop a budget exhibit, for submission with the fiscal year 2022 President's budget request, detailing the costs of the Department of Defense audit. The exhibit shall include three separate budget tables; one showing costs for Independent Public Accountant Contracts, one for Systems and Audit Services, and one for Remediation. Each table shall include the following elements:

- Appropriation
- Budget line item number/subactivity group
- Budget line item title
- Prior year dollars in thousands (showing actuals)
- Current year dollars in thousands
- Budget year dollars in thousands
- Description, which shall define what the funds in each line item purchase
- Explanation of Change, which shall explain any significant changes between the current year projection and the budget request.

Dynamic Force Employment.—One of the tenets of the National Defense Strategy challenges the Department of Defense to build a more lethal force. The fiscal year 2021 President's budget request includes funding for a program called Dynamic Force Employment [DFE] that is an operating model prioritizing capacity and capability for major combat, while providing options for proactive and scalable employment of the joint force. These resources will enable senior leaders to conduct Secretary of Defense-directed no-notice exercises designed to validate the readiness of key forces.

Operation and Maintenance, Army	\$588,800,000
Operation and Maintenance, Navy	7,600,000
Operation and Maintenance, Marine Corps	13,400,000
Operation and Maintenance, Air Force	10,200,000
Total	620,000,000

The Committee supports the DFE request within the service budgets as shown in the table above and designates the funding a

congressional special interest item. The Committee directs the Under Secretary of Defense (Comptroller) and the service secretaries that normal prior approval reprogramming procedures shall be used to obligate or expend these funds for any purpose other than DFE. Further, the Committee directs the Secretary of Defense to submit a quarterly report on the DFE exercises that are funded in fiscal year 2021. The reports shall include, but not be limited to, the following elements for each exercise: title, date, location, which units participated (with an estimated number of participants), total cost by appropriation and budget line item (with a breakdown by cost element such as transportation, repair parts, etc.), and a short explanation of the objective. The reports shall be submitted to the congressional defense committees not later than 30 days after the close of each quarter of the fiscal year.

Department of Defense Acquisition Workforce.—The fiscal year 2021 President’s budget request proposes to transfer \$140,320,000 from the Department of Defense Acquisition Workforce Development Account [DAWDA] to the service operation and maintenance accounts for acquisition workforce personnel. The Committee supports this transfer as requested and displayed in the table below. The funding in the table is designated a congressional special interest item. The Committee directs the Under Secretary of Defense (Comptroller) and the service secretaries that normal prior approval reprogramming procedures shall be used to obligate or expend these funds for any purpose other than acquisition workforce development.

Operation and Maintenance, Army	\$37,640,000
Operation and Maintenance, Navy	60,620,000
Operation and Maintenance, Air Force	42,060,000
Total	140,320,000

While the fiscal year 2021 service justification materials show the transfer in from the DAWDA, the funding is encompassed within large funding lines, which limits visibility and insight into, and execution of, requested funding for the acquisition workforce specifically. Therefore, with the submission of the fiscal year 2022 President’s budget request, the Committee directs the respective Service Acquisition Executive of the Army, Navy, and Air Force to provide a report to the congressional defense committees identifying its acquisition workforce requirements in support of the acquisition programs included in the Fiscal Year 2022 Future Years Defense Program. Further, the respective Service Financial Manager and Comptroller of the Army, Navy, and Air Force is directed to certify, with submission of the fiscal year 2022 President’s budget request, to the congressional defense committees, that these acquisition workforce requirements are fully funded in the fiscal year 2022 President’s budget request.

Beginning with the fiscal year 2023 President’s budget request, the Committee directs the Under Secretary of Defense (Comptroller), in coordination with the respective Service Acquisition Executives and Financial Managers and Comptrollers, to establish unique Defense Acquisition Workforce sub-activity groups for each operation and maintenance account that contains such funding. The Committee further directs the Under Secretary of Defense

(Comptroller), in coordination with the respective Service Acquisition Executives and Financial Managers and Comptrollers, to work with the House and Senate Appropriations Committees to develop performance criteria metrics to be included in the OP-5 budget exhibit for the new sub-activity group in order to increase visibility and clarity into the Defense Acquisition Workforce funding.

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

Tobacco Use in the Military.—Tobacco use is the leading cause of preventable death in the United States, with more than 480,000 deaths attributable to cigarette smoking each year. The Department of Defense has affirmed the goal of a tobacco-free military, and has implemented a range of programs including public education campaigns, the banning of all tobacco use during basic training, and the prohibition of tobacco use by instructors in the presence of students. The Committee supports the Secretary of Defense's Policy Memorandum 16-001 from April 8, 2016, directing the military services "to ensure a comprehensive tobacco policy that assists with preventing initiation of tobacco use, helping those who want to quit using tobacco succeed, and decreasing exposure to second-hand smoke for all our people." As a result, the Committee retains a provision from the Department of Defense Appropriations Act, 2020 (Public Law 116-93) directing the elimination of the price subsidy provided to tobacco products at military exchanges.

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

Drinking Water Contamination.—The Committee remains concerned about the health implications of contaminated drinking water due to perfluoroalkyl and polyfluoroalkyl substances [PFAS].

First, the Committee worked with the military services to assess unfunded executable requirements in fiscal year 2021 due to issues associated with PFAS and provided additional funding accordingly. The Committee intends to aggressively follow up with the services on procedures for timely remediation and community notification. Second, the Committee urges the Secretary of Defense to focus continued investments in groundwater remediation towards demonstration projects that utilize commercially available methods to treat groundwater that are both cost effective and efficacious, including in situ treatments. Finally, the Committee directs the Department of Defense PFAS Task Force to provide a brief to the House and Senate Appropriations Committees not later than 180 days after the enactment of this act on research efforts regarding aqueous film forming foam replacement solutions and alternatives, to include cost implications and the testing of products to ensure they meet military standards.

Perfluoroalkyl and Polyfluoroalkyl Substances Contamination and First Responder Exposure.—The Committee remains concerned about the health implications of PFAS, including the exposure of Department of Defense firefighter and first responder personnel. Given the lack of definitive guidance around exposure levels, the Committee urges the Secretary of Defense to accelerate adoption of other forms of foam which would meet military specifications and do not contain PFAS. The Committee further urges the Secretary of Defense to coordinate with the Agency for Toxic Substances and Disease Registry on validated blood assay research for these chemicals and integrate that knowledge into the policies and procedures for Department of Defense first responders. Finally, the Committee directs the Assistant Secretary of Defense (Health Affairs) to brief the House and Senate Appropriations Committees not later than 180 days after the enactment of this act on a plan to test and track potential first responder exposure to these chemicals as part of their existing, annual medical surveillance exams.

Collective Bargaining.—The Committee has concerns with a January 29, 2020, Presidential memorandum delegating to the Secretary of Defense the President's long-standing authority to exclude Department of Defense agencies and subdivisions from being covered under the Federal Service Labor-Management Relations Statute pursuant to 5 U.S.C. Section 7103(b)(1) or (2) of title 5, which outlines collective bargaining rights for Federal employees. Acknowledging the risks associated with broadly exempting agencies or subdivisions that have been operating successfully without the exemption, the Committee expects the Secretary of Defense to continue to apply rigorous internal processes requiring Department of Defense components to submit significant documentation to support any request to exclude its agencies or subdivisions from collective bargaining.

Spare Parts Stock.—The Committee recognizes the recent efforts made by the Department of Defense to increase the mission capable rates of various fleets to eighty percent. However, the lack of availability of spare parts remains a factor in the grounding of aircraft. Therefore, the Committee directs the Service Secretaries and the Director of the Defense Logistics Agency to conduct analysis on the spare parts requirements to support conflict scenarios in ac-

cordance with the National Defense Strategy, and to provision those quantities to stock required to support those scenarios.

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

Computer Science and Cybersecurity Education in Junior Reserve Officer Training Corps Programs.—The Committee recognizes the need to find and produce a sufficient number of Americans trained to succeed in computer science and cyber security careers. The Services’ Junior Reserve Officer’s Training Corps [JROTC] can serve as a catalyst to overcoming these systematic shortages by providing and extra-curricular experience to this public service-oriented, highly diverse population of young Americans who demonstrate a penchant for computer science and related subjects. The Committee encourages the Service Secretaries to partner with other Federal, State, and industry leaders to provide evidence-based computer science and cybersecurity education at schools serving JROTC youth.

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

- The Secretary of the Air Force shall include the average FTE cost (annual average salary) in the Personnel Summary section of the OP–5 Exhibit for each subactivity group. This direction applies to all Air Force components.
- The Secretary of Defense shall submit a separate OP–5 and OP–32 exhibit for each line that is requested on the O–1 breakout of Operation and Maintenance Programs. This direction is specifically for the Operation and Maintenance, Defense-Wide [O&M, DW] appropriation. The fiscal year 2021 President’s budget request broke out cyber lines in O&M, DW

yet the narrative associated with those new lines is buried within the exhibit for each agency. In another instance, the budget request for The Joint Chiefs of Staff includes four separate lines on the O-1 yet there is only one OP-5 exhibit rolling up all of those lines and does not provide sufficient detail for each.

OPERATION AND MAINTENANCE, ARMY

Appropriations, 2020	\$39,597,083,000
Budget estimate, 2021	40,312,968,000
Committee recommendation	39,675,024,000

The Committee recommends an appropriation of \$39,675,024,000. This is \$637,944,000 below the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

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

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
	OPERATION AND MAINTENANCE, ARMY			
	BUDGET ACTIVITY 1: OPERATING FORCES			
	LAND FORCES			
20	MODULAR SUPPORT BRIGADES	\$159,834	\$159,834	.....
30	ECHELONS ABOVE BRIGADES	663,751	663,751	.....
40	THEATER LEVEL ASSETS	956,477	926,477	- 30,000
50	LAND FORCES OPERATIONS SUPPORT	1,157,635	1,157,635	.....
60	AVIATION ASSETS	1,453,024	1,378,024	- 75,000
	LAND FORCES READINESS			
70	FORCE READINESS OPERATIONS SUPPORT	4,713,660	4,603,660	- 110,000
80	LAND FORCES SYSTEMS READINESS	404,161	404,161	.....
90	LAND FORCES DEPOT MAINTENANCE	1,413,359	1,378,359	- 35,000
	LAND FORCES READINESS SUPPORT			
100	BASE OPERATIONS SUPPORT	8,220,093	8,220,093	.....
110	FACILITIES SUSTAINMENT, RESTORATION, & MODERNIZATION	3,581,071	3,581,071	.....
120	MANAGEMENT AND OPERATIONAL HEADQUARTERS	411,844	411,844	.....
	COMBATANT COMMAND SUPPORT			
160	US AFRICA COMMAND	239,387	241,887	+ 2,500
170	US EUROPEAN COMMAND	160,761	158,761	- 2,000
180	US SOUTHERN COMMAND	197,826	197,826	.....
190	US FORCES KOREA	65,152	65,152	.....
200	CYBERSPACE ACTIVITIES—CYBERSPACE OPERATIONS	430,109	425,309	- 4,800
210	CYBER SPACE ACTIVITIES—CYBERSECURITY	464,117	464,117	.....
	TOTAL, BUDGET ACTIVITY 1	24,692,261	24,437,961	- 254,300
	BUDGET ACTIVITY 2: MOBILIZATION			
	MOBILITY OPERATIONS			
220	STRATEGIC MOBILITY	402,236	402,236	.....
230	ARMY PREPOSITIONED STOCKS	324,306	324,306	.....
240	INDUSTRIAL PREPAREDNESS	3,653	3,653	.....
	TOTAL, BUDGET ACTIVITY 2	730,195	730,195	.....
	BUDGET ACTIVITY 3: TRAINING AND RECRUITING			
	ACCESSION TRAINING			
250	OFFICER ACQUISITION	165,142	165,142	.....

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
260	RECRUIT TRAINING	76,509	76,509	.....
270	ONE STATION UNIT TRAINING	88,523	88,523	.....
280	SENIOR RESERVE OFFICERS TRAINING CORPS	535,578	537,078	+ 1,500
	BASIC SKILL AND ADVANCED TRAINING			
290	SPECIALIZED SKILL TRAINING	981,436	981,436	.....
300	FLIGHT TRAINING	1,204,768	1,204,768	.....
310	PROFESSIONAL DEVELOPMENT EDUCATION	215,195	215,195	.....
320	TRAINING SUPPORT	575,232	575,232	.....
	RECRUITING AND OTHER TRAINING AND EDUCATION			
330	RECRUITING AND ADVERTISING	722,612	722,612	.....
340	EXAMINING	185,522	185,522	.....
350	OFF-DUTY AND VOLUNTARY EDUCATION	221,503	221,503	.....
360	CIVILIAN EDUCATION AND TRAINING	154,651	154,651	.....
370	JUNIOR RESERVE OFFICERS TRAINING CORPS	173,286	176,286	+ 3,000
	TOTAL, BUDGET ACTIVITY 3	5,299,957	5,304,457	+ 4,500
	BUDGET ACTIVITY 4: ADMIN & SERVICEWIDE ACTIVITIES			
	LOGISTICS OPERATIONS			
390	SERVICEWIDE TRANSPORTATION	491,926	491,926	.....
400	CENTRAL SUPPLY ACTIVITIES	812,613	812,613	.....
410	LOGISTICS SUPPORT ACTIVITIES	676,178	676,178	.....
420	AMMUNITION MANAGEMENT	437,774	437,774	.....
	SERVICEWIDE SUPPORT			
430	ADMINISTRATION	438,048	438,048	.....
440	SERVICEWIDE COMMUNICATIONS	1,638,872	1,538,872	- 100,000
450	MANPOWER MANAGEMENT	300,046	300,046	.....
460	OTHER PERSONNEL SUPPORT	701,103	701,103	.....
470	OTHER SERVICE SUPPORT	1,887,133	1,875,133	- 12,000
480	ARMY CLAIMS ACTIVITIES	195,291	195,291	.....
490	REAL ESTATE MANAGEMENT	229,537	231,037	+ 1,500
500	FINANCIAL IMPROVEMENT AND AUDIT READINESS	306,370	306,370	.....
510	INTERNATIONAL MILITARY HEADQUARTERS	373,030	373,030	.....
520	MISC SUPPORT OF OTHER NATIONS	32,719	32,719	.....
	OTHER PROGRAMS			
	OTHER PROGRAMS	1,069,915	1,066,521	- 3,394
	TOTAL, BUDGET ACTIVITY 4	9,590,555	9,476,661	- 113,894
	PUBLIC LAW 115-68 IMPLEMENTATION AT COCOMS		750	+ 750
	OVERESTIMATION OF CIVILIAN FTE TARGETS		- 125,000	- 125,000
	PROJECTED CARRYOVER ADJUSTMENT		- 150,000	- 150,000
	TOTAL, OPERATION AND MAINTENANCE, ARMY	40,312,968	39,675,024	- 637,944

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
114	Theater Level Assets	956,477	926,477	- 30,000
	Maintain program affordability: Unjustified growth			- 30,000
116	Aviation Assets	1,453,024	1,378,024	- 75,000
	Maintain Program Affordability: Projected underexecution			- 75,000
121	Force Readiness Operations Support	4,713,660	4,603,660	- 110,000
	Maintain program affordability: Unjustified growth			- 125,000

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
	Improving funds management: Program decrease unaccounted for			- 40,000
	Transfer: Army-requested transfer of Homeland Defense increase to Missile Procurement, Army line 13			- 10,000
	Program increase: Ultra Lightweight Camouflage Net Systems			+ 20,000
	Program increase: Pacific Deterrence Initiative—Exercises in support of INDOPACOM MDTF #1			+ 45,000
123	Land Forces Depot Maintenance	1,413,359	1,378,359	- 35,000
	Maintain program affordability: Unjustified growth			- 35,000
141	US Africa Command	239,387	241,887	+ 2,500
	Program increase: Force protection upgrades—personnel recovery/casualty evacuation			+ 2,500
142	US European Command	160,761	158,761	- 2,000
	Maintain program affordability: Unjustified growth			- 2,000
151	Cyberspace Activities—Cyberspace Operations	430,109	425,309	- 4,800
	Improving funds management: Program transfer unaccounted for			- 4,800
314	Senior Reserve Officers Training Corps	535,578	537,078	+ 1,500
	Program increase: ROTC helicopter training program			+ 1,500
335	Junior Reserve Officer Training Corps	173,286	176,286	+ 3,000
	Program increase: JROTC STEM training and education			+ 3,000
432	Service-wide Communications	1,638,872	1,538,872	- 100,000
	Maintain program affordability: Unjustified growth			- 100,000
435	Other Service Support	1,887,133	1,875,133	- 12,000
	Maintain program affordability: Unjustified growth			- 12,000
437	Real Estate Management	229,537	231,037	+ 1,500
	Program increase: Pilot Program for Online Real Estate Inventory Tool			+ 1,500
411	Security Programs	1,069,915	1,066,521	- 3,394
	Classified adjustment			- 11,894
	Program increase: ISR—SOUTHCOM Overland Airborne ISR Operations			+ 8,500
UNDIST	Maintain program affordability: Overestimation of civilian FTEs		- 125,000	- 125,000
UNDIST	Improving funds management: Projected carryover adjustment		- 150,000	- 150,000
UNDIST	Program increase: Public Law 115-68 Implementation at Combatant Commands		750	+ 750

Army Sustainment, Restoration and Modernization and Facility Reduction Funding.—The Committee supports the robust funding level requested in fiscal year 2021 for facility sustainment, restoration, and modernization. The Secretary of the Army is encouraged to use a portion of these funds for the continued demolition of contaminated military facilities that are no longer in use.

Energy Resilience.—Energy resilience promotes Army readiness by anticipating, preparing for, and adapting to changing conditions. It enables the Army to withstand, respond to, and recover from disruptions in the availability of energy, land, and water resources. The Committee encourages the Secretary of the Army to focus on the restoration of energy and water systems to critical facilities and to continue development and training on the resiliency of these systems.

Pilot Program for Online Real Estate Inventory Tools.—The Committee recognizes the potential savings that could be realized from efforts to inventory space available at Army installations. The Committee directs the Secretary of the Army to pursue the use of

information technology tools to better market space available and more quickly determine what real estate should be divested in order to further achieve efficiencies within the U.S. Army Installation Management Command. The Committee recommends an additional \$1,500,000 for a pilot program for such purposes. The Secretary of the Army shall provide a report to the House and Senate Appropriations Committees not later than May 1, 2021, that includes the following: (1) a list of installations selected for the pilot program, (2) an outline for the deployment of this capability to the selected installations, and (3) a cost estimate to expand the tool to all Army installations.

Digital Persona Protection.—The Committee is aware that the Army Criminal Investigation Division has made it a priority to protect soldiers from emerging threats from digital and social channels. The Secretary of the Army is encouraged to utilize commercially available technology to protect its leadership, soldiers, employees, and digital assets from criminals attempting to use social networks to commit fraud or harm military personnel.

OPERATION AND MAINTENANCE, NAVY

Appropriations, 2020	\$47,622,510,000
Budget estimate, 2021	49,692,742,000
Committee recommendation	49,091,602,000

The Committee recommends an appropriation of \$49,091,602,000. This is \$601,140,000 below the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

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

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
	OPERATION AND MAINTENANCE, NAVY			
	BUDGET ACTIVITY 1: OPERATING FORCES			
	AIR OPERATIONS			
10	MISSION AND OTHER FLIGHT OPERATIONS	5,738,746	5,673,746	− 65,000
20	FLEET AIR TRAINING	2,213,673	2,213,673	.....
30	AVIATION TECHNICAL DATA AND ENGINEERING SERVICES	57,144	57,144	.....
40	AIR OPERATIONS AND SAFETY SUPPORT	171,949	170,828	− 1,121
50	AIR SYSTEMS SUPPORT	838,767	838,767	.....
60	AIRCRAFT DEPOT MAINTENANCE	1,459,447	1,454,447	− 5,000
70	AIRCRAFT DEPOT OPERATIONS SUPPORT	57,789	57,789	.....
80	AVIATION LOGISTICS	1,264,665	1,258,665	− 6,000
	SHIP OPERATIONS			
100	SHIP OPERATIONS SUPPORT AND TRAINING	1,117,067	1,092,067	− 25,000
110	SHIP DEPOT MAINTENANCE	7,859,104	7,859,104	.....
120	SHIP DEPOT OPERATIONS SUPPORT	2,262,196	2,178,196	− 84,000
	COMBAT COMMUNICATIONS/SUPPORT			
130	COMBAT COMMUNICATIONS AND ELECTRONIC WARFARE	1,521,360	1,498,360	− 23,000
150	SPACE SYSTEMS AND SURVEILLANCE	274,087	274,087	.....
160	WARFARE TACTICS	741,609	744,109	+ 2,500
170	OPERATIONAL METEOROLOGY AND OCEANOGRAPHY	401,382	401,382	.....
180	COMBAT SUPPORT FORCES	1,546,273	1,521,273	− 25,000
190	EQUIPMENT MAINTENANCE AND DEPOT OPERATIONS SUPPORT	177,951	177,951	.....

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
210	COMBATANT COMMANDERS CORE OPERATIONS	61,484	61,484	.....
220	COMBATANT COMMANDERS DIRECT MISSION SUPPORT	102,330	112,630	+ 10,300
230	MILITARY INFORMATION SUPPORT OPERATIONS	8,810	8,810	.....
240	CYBERSPACE ACTIVITIES	567,496	567,496	.....
	WEAPONS SUPPORT			
260	FLEET BALLISTIC MISSILE	1,428,102	1,428,102	.....
280	WEAPONS MAINTENANCE	995,762	993,262	- 2,500
290	OTHER WEAPON SYSTEMS SUPPORT	524,008	524,008	.....
	BASE SUPPORT			
300	ENTERPRISE INFORMATION TECHNOLOGY	1,229,056	1,204,056	- 25,000
310	FACILITIES SUSTAINMENT, RESTORATION & MODERNIZATION	3,453,099	3,464,031	+ 10,932
320	BASE OPERATING SUPPORT	4,627,966	4,541,562	- 86,404
	TOTAL, BUDGET ACTIVITY 1	40,701,322	40,377,029	- 324,293
	BUDGET ACTIVITY 2: MOBILIZATION			
	READY RESERVE AND PREPOSITIONING FORCES			
330	SHIP PREPOSITIONING AND SURGE	849,993	849,993	.....
340	READY RESERVE FORCE	436,029	376,029	- 60,000
	ACTIVATIONS/INACTIVATIONS			
360	SHIP ACTIVATIONS/INACTIVATIONS	286,416	286,416	.....
	MOBILIZATION PREPAREDNESS			
370	EXPEDITIONARY HEALTH SERVICES SYSTEMS	99,402	99,402	.....
390	COAST GUARD SUPPORT	25,235	25,235	.....
	TOTAL, BUDGET ACTIVITY 2	1,697,075	1,637,075	- 60,000
	BUDGET ACTIVITY 3: TRAINING AND RECRUITING			
	ACCESSION TRAINING			
400	OFFICER ACQUISITION	186,117	186,117	.....
410	RECRUIT TRAINING	13,206	13,206	.....
420	RESERVE OFFICERS TRAINING CORPS	163,683	163,683	.....
	BASIC SKILLS AND ADVANCED TRAINING			
430	SPECIALIZED SKILL TRAINING	947,841	947,841	.....
450	PROFESSIONAL DEVELOPMENT EDUCATION	367,647	367,647	.....
460	TRAINING SUPPORT	254,928	254,928	.....
	RECRUITING, AND OTHER TRAINING AND EDUCATION			
470	RECRUITING AND ADVERTISING	206,305	206,305	.....
480	OFF-DUTY AND VOLUNTARY EDUCATION	103,799	103,799	.....
490	CIVILIAN EDUCATION AND TRAINING	66,060	66,060	.....
500	JUNIOR ROTC	56,276	58,776	+ 2,500
	TOTAL, BUDGET ACTIVITY 3	2,365,862	2,368,362	+ 2,500
	BUDGET ACTIVITY 4: ADMIN & SERVICEWIDE ACTIVITIES			
	SERVICEWIDE SUPPORT			
510	ADMINISTRATION	1,249,410	1,236,410	- 13,000
530	CIVILIAN MANPOWER AND PERSONNEL MANAGEMENT	189,625	189,625	.....
540	MILITARY MANPOWER AND PERSONNEL MANAGEMENT	499,904	496,933	- 2,971
560	MEDICAL ACTIVITIES	196,747	196,747	.....
	LOGISTICS OPERATIONS AND TECHNICAL SUPPORT			
580	SERVICEWIDE TRANSPORTATION	165,708	165,708	.....
600	PLANNING, ENGINEERING AND DESIGN	519,716	514,716	- 5,000
610	ACQUISITION, LOGISTICS AND OVERSIGHT	751,184	738,275	- 12,909
	SECURITY PROGRAMS			
650	INVESTIGATIVE AND SECURITY SERVICES	747,519	747,519	.....
	OTHER PROGRAMS			
	OTHER PROGRAMS	608,670	602,703	- 5,967

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
	TOTAL, BUDGET ACTIVITY 4	4,928,483	4,888,636	- 39,847
	UNJUSTIFIED GROWTH		- 100,000	- 100,000
	UNJUSTIFIED GROWTH FOR CIVILIAN FTES		- 60,000	- 60,000
	PROJECTED CARRYOVER ADJUSTMENT		- 50,000	- 50,000
	PROGRAM INCREASE: USS BONHOMME RICHARD		30,000	+ 30,000
	PUBLIC LAW 115-68 IMPLEMENTATION AT COCOMS		500	+ 500
	TOTAL, OPERATION AND MAINTENANCE, NAVY	49,692,742	49,091,602	- 601,140

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
1A1A	Mission and Other Flight Operations	5,738,746	5,673,746	- 65,000
	Maintain program affordability: Unjustified growth			- 65,000
1A4A	Air Operations and Safety Support	171,949	170,828	- 1,121
	Maintain program affordability: Unjustified growth			- 1,121
1A5A	Aircraft Depot Maintenance	1,459,447	1,454,447	- 5,000
	Maintain program affordability: Unjustified growth			- 5,000
1A9A	Aviation Logistics	1,264,665	1,258,665	- 6,000
	Maintain program affordability: Unjustified growth			- 6,000
1B2B	Ship Operations Support & Training	1,117,067	1,092,067	- 25,000
	Maintain program affordability: Unjustified growth			- 25,000
1B5B	Ship Depot Operations Support	2,262,196	2,178,196	- 84,000
	Maintain program affordability: Unjustified growth			- 84,000
1C1C	Combat Communications and Electronic Warfare	1,521,360	1,498,360	- 23,000
	Maintain program affordability: Unjustified growth			- 20,000
	Improving funds management: Remove one-time fiscal year 2020 increase			- 3,000
1C4C	Warfare Tactics	741,609	744,109	+ 2,500
	Program increase: PFAS disposal			+ 2,500
1C6C	Combat Support Forces	1,546,273	1,521,273	- 25,000
	Improving funds management: Program decrease unaccounted for			- 25,000
1CCM	Combatant Commanders Direct Mission Support	102,330	112,630	+ 10,300
	Program increase: Pacific Deterrence Initiative—Joint Task Force Indo-Pacific (SOCPAC)			+ 6,300
	Program increase: Pacific Deterrence Initiative—Singapore CTIF fusion center			+ 2,000
	Program increase: Pacific Multi-Domain Training and Experimentation Capability			+ 2,000
1D4D	Weapons Maintenance	995,762	993,262	- 2,500
	Improving funds management: Program transfer unaccounted for			- 13,000
	Program increase: Three additional Phalanx CIWS overhauls			+ 10,500
BSIT	Enterprise Information	1,229,056	1,204,056	- 25,000
	Improving funds management: Program decrease unaccounted for			- 25,000
BSM1	Sustainment, Restoration and Modernization	3,453,099	3,464,031	+ 10,932
	Transfer: Navy-requested transfer from RDN line 184 for China Lake earthquake recovery			+ 27,748
	Transfer: Lead service responsibilities for Joint Base Anacostia Bolling from Navy to Air Force			- 16,816
BSS1	Base Operating Support	4,627,966	4,541,562	- 86,404
	Improving funds management: Remove one-time fiscal year 2020 increase			- 12,000

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
	Transfer: Lead service responsibilities for Joint Base Anacostia Bolling from Navy to Air Force			-85,504
	Program increase: PFAS remediation			+11,100
2A2F	Ready Reserve Force	436,029	376,029	-60,000
	Transfer: Two used sealift vessels for National Defense Reserve Fleet to SCN, line XX			-60,000
3C5L	Junior ROTC	56,276	58,776	+2,500
	Program increase: JROTC STEM training and education			+2,500
4A1M	Administration	1,249,410	1,236,410	-13,000
	Maintain program affordability: Unjustified growth			-13,000
4A4M	Military Manpower and Personnel Management	499,904	496,933	-2,971
	Transfer: Lead service responsibilities for Joint Base Anacostia Bolling from Navy to Air Force			-2,971
4B2N	Planning, Engineering and Program Support	519,716	514,716	-5,000
	Maintain program affordability: Unjustified growth			-5,000
4B3N	Acquisition, Logistics and Oversight	751,184	738,275	-12,909
	Improving funds management: Program decrease unaccounted for			-12,000
	Transfer: Lead service responsibilities for Joint Base Anacostia Bolling from Navy to Air Force			-909
999	Classified Programs	608,670	602,703	-5,967
	Classified adjustment			-5,967
UNDIST	Maintain program affordability: Unjustified growth		-100,000	-100,000
UNDIST	Maintain program affordability: Unjustified growth for Civilian FTE		-60,000	-60,000
UNDIST	Improving funds management: Projected carryover adjustment		-50,000	-50,000
UNDIST	Program increase: Public Law 115-68 Implementation at Combatant Commands		+500	+500
UNDIST	Program increase: USS Bonhomme Richard		+30,000	+30,000

Naval Shipyard Apprentice Program.—The Committee directs that during fiscal year 2021 the Navy shall induct classes of no fewer than 100 apprentices, respectively, at each of the naval shipyards. The Committee further directs the Navy to include the costs of the fiscal year 2022 class of apprentices in its budget request.

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

Pacific Underwater Training Ranges.—The Barking Sands Tactical Underwater Range [BARSTUR] and Barking Sands Underwater Range Expansion [BSURE] comprise the largest instrumented underwater ranges in the world. Together, these ranges deliver a realistic environment for testing and training in the use of air, submarine, and surface weapon systems. The Committee directs the Secretary of the Navy to provide a report to the House and Senate Appropriations Committees detailing its future plans for the BARSTUR and BSURE ranges not later than 180 days after the enactment of this act. The report shall include a budgetary plan and timeline to recapitalize and modernize the ranges and interim risk reduction efforts to ensure that the ranges can continue

to deliver a realistic environment for testing and training until the Navy completes its full recapitalization and modernization plan.

Condition-Based Edge Computing Analysis.—Condition-Based Maintenance Plus [CBM+] is the application of processes to achieve the target availability, reliability, operation, and support costs of systems and components across their life cycle. The Navy uses CBM+ to establish an integrated, predictive maintenance approach, which minimizes unscheduled repairs and eliminates unnecessary maintenance. The Committee supports the implementation of CBM+ and in particular the use of commercial-off-the-shelf [COTS] technologies to detect and evaluate vibrations in rotating equipment. Therefore, the Committee encourages the Secretary of the Navy to incorporate advanced, COTS vibration monitoring technology with edge computing analysis into naval surface ships for use in multiple applications.

Naval Shipyard and Defense Installation Fire Departments.—The Committee is aware that the majority of Department of Defense fire departments utilize Alternate Work Schedules [AWS] for firefighter employees. The Committee recognizes the potential positive impacts of AWS on recruitment, retention, and employee work-life balance and therefore encourages decision-makers within the fire departments at Naval Shipyards and other Department of Defense installations to allow its maximum use when feasible.

Shipyard Infrastructure Optimization Plan.—The Department of the Navy operates and maintains four public shipyards in the United States: Norfolk Naval Shipyard, Virginia; Portsmouth Naval Shipyard, Maine; Puget Sound Naval Shipyard, Washington; and Pearl Harbor Naval Shipyard, Hawaii. The Committee recognizes the vital role these shipyards play in generating readiness and supporting the Navy’s surface and submarine fleet by performing depot- and intermediate-level maintenance, modernization, emergent repairs, and inactivations. In recognition of the importance of maintaining these assets, the Navy created the Shipyard Infrastructure Optimization Plan to recapitalize and modernize the infrastructure at all four public shipyards. The Committee understands that the Navy has established a program office within the Naval Sea Systems Command to promote these efforts and encourages the Secretary of the Navy to provide adequate staffing and support to this office in order to help coordinate the various Navy stakeholders as they implement the Shipyard Infrastructure Optimization Plan.

OPERATION AND MAINTENANCE, MARINE CORPS

Appropriations, 2020	\$7,868,468,000
Budget estimate, 2021	7,328,607,000
Committee recommendation	7,185,844,000

The Committee recommends an appropriation of \$7,185,844,000. This is \$142,763,000 below the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

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

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
	OPERATION AND MAINTENANCE, MARINE CORPS			
	BUDGET ACTIVITY 1: OPERATING FORCES			
	EXPEDITIONARY FORCES			
10	OPERATIONAL FORCES	941,143	868,373	- 72,770
20	FIELD LOGISTICS	1,277,798	1,252,798	- 25,000
30	DEPOT MAINTENANCE	206,907	168,414	- 38,493
	USMC PREPOSITIONING			
40	MARITIME PREPOSITIONING	103,614	103,614	.....
	COMBAT OPERATIONS/SUPPORT			
50	CYBERSPACE ACTIVITIES	215,974	210,974	- 5,000
	BASE SUPPORT			
60	FACILITIES SUSTAINMENT, RESTORATION & MODERNIZATION	938,063	938,063	.....
70	BASE OPERATING SUPPORT	2,264,680	2,268,680	+ 4,000
	TOTAL, BUDGET ACTIVITY 1	5,948,179	5,810,916	- 137,263
	BUDGET ACTIVITY 3: TRAINING AND RECRUITING			
	ACCESSION TRAINING			
80	RECRUIT TRAINING	20,751	20,751	.....
90	OFFICER ACQUISITION	1,193	1,193	.....
	BASIC SKILLS AND ADVANCED TRAINING			
100	SPECIALIZED SKILLS TRAINING	110,149	110,149	.....
110	PROFESSIONAL DEVELOPMENT EDUCATION	69,509	69,509	.....
120	TRAINING SUPPORT	412,613	407,613	- 5,000
	RECRUITING AND OTHER TRAINING EDUCATION			
130	RECRUITING AND ADVERTISING	215,464	215,464	.....
140	OFF-DUTY AND VOLUNTARY EDUCATION	33,719	33,719	.....
150	JUNIOR ROTC	25,784	28,284	+ 2,500
	TOTAL, BUDGET ACTIVITY 3	889,182	886,682	- 2,500
	BUDGET ACTIVITY 4: ADMIN & SERVICEWIDE ACTIVITIES			
	SERVICEWIDE SUPPORT			
160	SERVICEWIDE TRANSPORTATION	32,005	32,005	.....
170	ADMINISTRATION	399,363	396,363	- 3,000
	SECURITY PROGRAMS			
	SECURITY PROGRAMS	59,878	59,878	.....
	TOTAL, BUDGET ACTIVITY 4	491,246	488,246	- 3,000
	TOTAL, OPERATION AND MAINTENANCE, MARINE CORPS	7,328,607	7,185,844	- 142,763

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
1A1A	Operational Forces	941,143	868,373	- 72,770
	Improving funds management: Program decreases unaccounted for .....	.....	.....	- 30,000
	Maintain program affordability: USMC-identified asset for company and unit deactivations .....	.....	.....	- 4,703
	Transfer to Title IX: European Deterrence Initiative full request .....	.....	.....	- 38,067
1A2A	Field Logistics	1,277,798	1,252,798	- 25,000

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
	Maintain program affordability: Unjustified growth			– 25,000
1A3A	Depot Maintenance	206,907	168,414	– 38,493
	Maintain program affordability: USMC-identified asset for FY 21 depot maintenance workload			– 38,493
1CCY	Cyberspace Activities	215,974	210,974	– 5,000
	Maintain program affordability: Overestimation of civilian FTE targets			– 5,000
BSS1	Base Operating Support	2,264,680	2,268,680	+ 4,000
	Program increase: AFFF requirements			+ 4,000
3B4D	Training Support	412,613	407,613	– 5,000
	Improving funds management: Remove one-time fiscal year 2020 increase			– 5,000
3C3F	Junior ROTC	25,784	28,284	+ 2,500
	Program increase: JROTC STEM training and education			+ 2,500
4A4G	Administration	399,363	396,363	– 3,000
	Maintain program affordability: Unjustified growth			– 3,000

Marine Corps Encroachment Partnering Program.—The Office of the Secretary of Defense provides the Readiness and Environmental Protection Integration program’s overarching guidance and funding support for service efforts to protect missions and installations. The services prepare long-term strategies, engage in partnerships, and complete transactions via service-specific processes. Marine Corps installations develop an Encroachment Management Program to address compatibility and readiness sustainment. The Committee encourages the Commandant of the Marine Corps to strengthen its oversight, administration, and reporting of its Encroachment Partnering Program which is a key component of the Encroachment Management Program.

OPERATION AND MAINTENANCE, AIR FORCE

Appropriations, 2020	\$42,736,365,000
Budget estimate, 2021	34,750,597,000
Committee recommendation	34,539,699,000

The Committee recommends an appropriation of \$34,539,699,000. This is \$210,898,000 below the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

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

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
	OPERATION AND MAINTENANCE, AIR FORCE			
	BUDGET ACTIVITY 1: OPERATING FORCES			
	AIR OPERATIONS			
10	PRIMARY COMBAT FORCES	731,511	601,511	– 130,000
20	COMBAT ENHANCEMENT FORCES	1,275,485	1,298,485	+ 23,000
30	AIR OPERATIONS TRAINING	1,437,095	1,422,095	– 15,000
50	FACILITIES SUSTAINMENT, RESTORATION & MODERNIZATION	3,241,216	3,282,032	+ 40,816
50	CYBERSPACE SUSTAINMENT	235,816	235,816	
60	CONTRACTOR LOGISTICS SUPPORT AND SYSTEM SUPPORT	1,508,342	1,373,342	– 135,000
70	FLYING HOUR PROGRAM	4,458,457	4,458,457	

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
80	BASE OPERATING SUPPORT	7,497,288	7,618,672	+ 121,384
	COMBAT RELATED OPERATIONS			
90	GLOBAL C3I AND EARLY WARNING	849,842	863,642	+ 13,800
100	OTHER COMBAT OPERATIONS SUPPORT PROGRAMS	1,067,055	1,124,055	+ 57,000
110	CYBERSPACE ACTIVITIES	698,579	698,579	.....
	SPACE OPERATIONS			
140	SPACE CONTROL SYSTEMS	34,194	34,194	.....
	COCOM			
170	US NORTHCOM/NORAD	204,268	198,268	- 6,000
180	US STRATCOM	526,809	492,809	- 34,000
190	US CYBERCOM	314,524	307,524	- 7,000
200	US CENTCOM	186,116	186,116	.....
210	US SOCOM	9,881	9,881	.....
220	US TRANSCOM	1,046	1,046	.....
230	USSPACECOM	249,022	241,022	- 8,000
	OPERATING FORCES			
999	CLASSIFIED PROGRAMS	1,289,339	1,278,339	- 11,000
	TOTAL, BUDGET ACTIVITY 1	25,815,885	25,725,885	- 90,000
	BUDGET ACTIVITY 2: MOBILIZATION			
	MOBILITY OPERATIONS			
230	AIRLIFT OPERATIONS	1,350,031	1,350,031	.....
240	MOBILIZATION PREPAREDNESS	647,168	647,168	.....
	TOTAL, BUDGET ACTIVITY 2	1,997,199	1,997,199	.....
	BUDGET ACTIVITY 3: TRAINING AND RECRUITING			
	ACCESSION TRAINING			
280	OFFICER ACQUISITION	142,548	142,548	.....
290	RECRUIT TRAINING	25,720	25,720	.....
300	RESERVE OFFICER TRAINING CORPS (ROTC)	128,295	128,295	.....
	BASIC SKILLS AND ADVANCED TRAINING			
330	SPECIALIZED SKILL TRAINING	417,335	399,335	- 18,000
340	FLIGHT TRAINING	615,033	615,033	.....
350	PROFESSIONAL DEVELOPMENT EDUCATION	298,795	298,795	.....
360	TRAINING SUPPORT	85,844	85,844	.....
	RECRUITING, AND OTHER TRAINING AND EDUCATION			
380	RECRUITING AND ADVERTISING	155,065	155,065	.....
390	EXAMINING	4,474	4,474	.....
400	OFF DUTY AND VOLUNTARY EDUCATION	219,349	219,349	.....
410	CIVILIAN EDUCATION AND TRAINING	361,570	358,570	- 3,000
420	JUNIOR ROTC	72,126	77,126	+ 5,000
	TOTAL, BUDGET ACTIVITY 3	2,526,154	2,510,154	- 16,000
	BUDGET ACTIVITY 4: ADMIN & SERVICEWIDE ACTIVITIES			
	LOGISTICS OPERATIONS			
430	LOGISTICS OPERATIONS	672,426	657,426	- 15,000
440	TECHNICAL SUPPORT ACTIVITIES	145,130	145,130	.....
	SERVICEWIDE ACTIVITIES			
480	ADMINISTRATION	851,251	851,251	.....
490	SERVICEWIDE COMMUNICATIONS	28,554	28,554	.....
500	OTHER SERVICEWIDE ACTIVITIES	1,188,414	1,185,414	- 3,000
510	CIVIL AIR PATROL CORPORATION	28,772	43,205	+ 14,433
	SUPPORT TO OTHER NATIONS			
530	INTERNATIONAL SUPPORT	158,803	158,803	.....
	SECURITY PROGRAMS			
	SECURITY PROGRAMS	1,338,009	1,332,928	- 5,081

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
	TOTAL, BUDGET ACTIVITY 4	4,411,359	4,402,711	- 8,648
	UNJUSTIFIED GROWTH		- 120,000	- 120,000
	PROJECTED CARRYOVER ADJUSTMENT		- 75,000	- 75,000
	PROGRAM TRANSFER UNACCOUNTED FOR		- 30,000	- 30,000
	PUBLIC LAW 115-68 IMPLEMENTATION AT COCOMS		1,750	+ 1,750
	AUTHORIZATION ADJUSTMENT: RESTORE A-10		67,000	+ 67,000
	AUTHORIZATION ADJUSTMENT: RESTORE KC-10		20,000	+ 20,000
	AUTHORIZATION ADJUSTMENT: RESTORE KC-135		40,000	40,000
	TOTAL, OPERATION AND MAINTENANCE, AIR FORCE	34,750,597	34,539,699	- 210,898

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
011A	Primary Combat Forces	731,511	601,511	- 130,000
	Transfer: Air Force-requested zero sum transfer of Combatant Command exercise/operational funding within O&M Air Force			- 130,000
011C	Combat Enhancement Forces	1,275,485	1,298,485	+ 23,000
	Improving funds management: Program transfer un- accounted for			- 5,000
	Improving funds management: Program decrease un- accounted for			- 2,000
	Transfer: Air Force-requested zero sum transfer of Combatant Command exercise/operational funding within O&M Air Force			+ 30,000
011D	Air Operations Training (OJT, Maintain Skills)	1,437,095	1,422,095	- 15,000
	Maintain program affordability: Unjustified growth			- 25,000
	Transfer: Air Force-requested zero sum transfer of Combatant Command exercise/operational funding within O&M Air Force			+ 10,000
011R	Facilities Sustainment, Restoration & Modernization	3,241,216	3,282,032	+ 40,816
	Transfer: Lead service responsibilities for Joint Base Anacostia Bolling from Navy to Air Force			+ 15,816
	Program increase: Natural Disaster Relief at Tyndall ..			+ 25,000
011W	Contractor Logistics Support and System Support	1,508,342	1,373,342	- 135,000
	Improving funds management: Program decrease un- accounted for			- 80,000
	Maintain program affordability: Unjustified growth			- 55,000
011Z	Base Support	7,497,288	7,618,672	+ 121,384
	Improving funds management: Program decrease un- accounted for			- 24,000
	Maintain program affordability: Unjustified growth			- 50,000
	Transfer: Lead service responsibilities for Joint Base Anacostia Bolling from Navy to Air Force			+ 90,384
	Transfer: Air Force-requested zero sum transfer of Combatant Command exercise/operational funding within O&M Air Force			+ 30,000
	Program increase: Natural Disaster Relief at Tyndall ..			+ 75,000
012A	Global C3I and Early Warning	849,842	863,642	+ 13,800
	Maintain program affordability: Unjustified growth			- 9,000
	Improving funds management: Program decrease un- accounted for			- 8,000
	Program Increase: Pacific Deterrence Initiative—Mis- sion Partner Environment implementation			+ 30,800
012C	Other Combat Ops Spt Programs	1,067,055	1,124,055	+ 57,000

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
	Improving funds management: Program decrease unaccounted for			- 3,000
	Transfer: Air Force-requested zero sum transfer of Combatant Command exercise/operational funding within O&M Air Force			+ 60,000
015C	US NORTHCOM/NORAD	204,268	198,268	- 6,000
	Improving funds management: Program decrease unaccounted for			- 6,000
015D	US STRATCOM	526,809	492,809	- 34,000
	Improving funds management: Program decrease unaccounted for			- 34,000
015E	US CYBERCOM	314,524	307,524	- 7,000
	Improving funds management: Program decrease unaccounted for			- 7,000
015X	USSPACECOM	249,022	241,022	- 8,000
	Maintain program affordability: Unjustified growth			- 8,000
999	Classified Programs	1,289,339	1,278,339	- 11,000
	Classified adjustment			- 11,000
032A	Specialized Skill Training	417,335	399,335	- 18,000
	Improving funds management: Program decrease unaccounted for			- 18,000
033D	Civilian Education and Training	361,570	358,570	- 3,000
	Improving funds management: Program decrease unaccounted for			- 3,000
033E	Junior ROTC	72,126	77,126	+ 5,000
	Program increase: JROTC STEM training and education			+ 5,000
041A	Logistics Operations	672,426	657,426	- 15,000
	Improving funds management: Program decrease unaccounted for			- 15,000
042G	Other Servicewide Activities	1,188,414	1,185,414	- 3,000
	Improving funds management: Program decrease unaccounted for			- 3,000
042I	Civil Air Patrol	28,772	43,205	+ 14,433
	Program increase			+ 14,433
999	Classified Programs	1,338,009	1,332,928	- 5,081
	Classified adjustment			- 5,081
UNDIST	Maintain program affordability: Unjustified growth		- 120,000	- 120,000
UNDIST	Improving funds management: Projected carryover adjustment		- 75,000	- 75,000
UNDIST	Improving funds management: Program transfer unaccounted for		- 30,000	- 30,000
UNDIST	Authorization adjustment: Restore A-10		+ 67,000	+ 67,000
UNDIST	Authorization adjustment: Restore KC-10		+ 20,000	+ 20,000
UNDIST	Authorization adjustment: Restore KC-135		+ 40,000	+ 40,000
UNDIST	Program increase: Public Law 115-68 Implementation at Combatant Commands		+ 1,750	+ 1,750

Diminishing Manufacturing Sources and Material Shortages.—Aging fleets require increased levels of stock to mitigate the effects of the diminishing manufacturing sources and material shortages that hamper the services' fleets. The Committee is concerned about the Air Force's landing gear health, particularly for the C-130, KC-135, and E-3. The Committee encourages the Secretary of the Air Force to acquire spare parts to reduce the backlog of landing gear for these aircraft due to diminishing manufacturing sources and material shortages.

Pilots and Aviation Professionals.—As the United States confronts a shortage of pilots and aviation professionals, both the military and the private sector must look to increase awareness and enthusiasm for aviation-related careers among today's youth. The

Committee supports the Air Force’s attempts to boost interest in aviation professions at the high school level through its Air Force Junior Reserve Officers’ Training Corps Flight Academy. The recommendation includes \$8,700,000, which is equal to the budget request, for approximately 400 scholarships in fiscal year 2021. The Committee applauds the Secretary of the Air Force’s efforts to expand this program, which is providing more opportunities for young Americans, especially among historically underrepresented groups, to pursue careers in military aviation.

Uncontaminated Water for Agricultural Purposes.—Congress has provided new authority to the Secretary of Defense and the Secretary of the Air Force in section 343 of the National Defense Authorization Act for Fiscal Year 2020 (Public Law 116–92) in order to promptly address perfluorooctanoic acid [PFOA] and perfluorooctane sulfonate [PFOS] contamination in agricultural water resources and prevent further spread and damage. While the Office of the Secretary of Defense recently issued implementation guidance for this new authority, the Committee is concerned that it does not direct remediation of contaminated water above the Lifetime Health Advisory issued by the Environmental Protection Agency as stated in section 343, but rather through the Comprehensive Environmental Response, Compensation, and Liability Act process. The Committee urges the Air Force to act expeditiously to implement this new guidance to prevent further harmful PFOA and PFOS contamination on agricultural lands.

Air Force Sustainment Center.—The mission of the Air Force Sustainment Center [AFSC] is to provide sustainment and logistics readiness to deliver combat power. Consisting of more than 32,000 military and civilian personnel, AFSC provides expeditionary capabilities to the warfighter through depot maintenance, supply chain management, and installation support. The Committee recognizes the challenges of workforce development with such a large, technical workforce and therefore encourages the Secretary of the Air Force to build relationships with research institutions that can provide training and research support to enable the AFSC to increase the number and types of engineers it can successfully recruit.

OPERATION AND MAINTENANCE, SPACE FORCE

Appropriations, 2020	\$40,000,000
Budget estimate, 2021	2,531,294,000
Committee recommendation	2,502,294,000

The Committee recommends an appropriation of \$2,502,294,000. This is \$29,000,000 below the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

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

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
	OPERATION AND MAINTENANCE, SPACE FORCE			
	BUDGET ACTIVITY 1: OPERATING FORCES			
	AIR OPERATIONS			
20	GLOBAL C3I & EARLY WARNING	276,109	276,109	.....
30	SPACE LAUNCH OPERATIONS	177,056	177,056	.....
40	SPACE OPERATIONS	475,338	475,338	.....
50	EDUCATION & TRAINING	18,660	18,660	.....
60	SPECIAL PROGRAMS	137,315	137,315	.....
70	DEPOT MAINTENANCE	250,324	250,324	.....
80	CONTRACTOR LOGISTICS & SYSTEM SUPPORT	1,063,969	1,063,969	.....
	TOTAL, BUDGET ACTIVITY 1	2,398,771	2,398,771	.....
90	ADMINISTRATION	132,523	123,523	- 9,000
	TOTAL, BUDGET ACTIVITY 4	132,523	123,523	- 9,000
	UNJUSTIFIED GROWTH .....	.....	- 20,000	- 20,000
	TOTAL, OPERATION AND MAINTENANCE, SPACE FORCE	2,531,294	2,502,294	- 29,000

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
042A	Administration	132,523	123,523	- 9,000
	Maintain program affordability: Unjustified growth .....	.....	.....	- 9,000
UNDIST	Maintain program affordability: Unjustified growth .....	.....	- 20,000	- 20,000

OPERATION AND MAINTENANCE, DEFENSE-WIDE

Appropriations, 2020	\$37,491,073,000
Budget estimate, 2021	38,649,079,000
Committee recommendation	38,584,918,000

The Committee recommends an appropriation of \$38,584,918,000. This is \$64,161,000 below the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

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

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
	OPERATION AND MAINTENANCE, DEFENSE-WIDE			
	BUDGET ACTIVITY 1: OPERATING FORCES			
10	JOINT CHIEFS OF STAFF	439,111	414,111	- 25,000
20	JOINT CHIEFS OF STAFF—CE2T2	535,728	535,728	.....
30	JOINT CHIEFS OF STAFF—CYBER	24,728	24,728	.....
40	SPECIAL OPERATIONS COMMAND COMBAT DEVELOPMENT ACTIVITIES	1,069,971	1,066,275	- 3,696

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
50	SPECIAL OPERATIONS COMMAND CYBERSPACE ACTIVITIES ...	9,800	9,800	.....
60	SPECIAL OPERATIONS COMMAND INTELLIGENCE	561,907	563,133	+ 1,226
70	SPECIAL OPERATIONS COMMAND MAINTENANCE	685,097	698,609	+ 13,512
80	SPECIAL OPERATIONS COMMAND MANAGEMENT/OPERATIONAL HEADQUARTERS	158,971	165,668	+ 6,697
90	SPECIAL OPERATIONS COMMAND OPERATIONAL SUPPORT ...	1,062,748	1,017,352	- 45,396
100	SPECIAL OPERATIONS COMMAND THEATER FORCES	2,598,385	2,550,880	- 47,505
	TOTAL, BUDGET ACTIVITY 1	7,146,446	7,046,284	- 100,162
	BUDGET ACTIVITY 3: TRAINING AND RECRUITING			
50	DEFENSE ACQUISITION UNIVERSITY	162,963	162,963	.....
60	JOINT CHIEFS OF STAFF RECRUITING, AND OTHER TRAINING AND EDUCATION	95,684	95,684	.....
70	SPECIAL OPERATIONS COMMAND PROFESSIONAL DEVELOPMENT EDUCATION	33,301	33,868	+ 567
	TOTAL, BUDGET ACTIVITY 3	291,948	292,515	+ 567
	BUDGET ACTIVITY 4: ADMIN & SERVICEWIDE ACTIVITIES			
80	CIVIL MILITARY PROGRAMS	147,993	212,993	+ 65,000
100	DEFENSE CONTRACT AUDIT AGENCY	604,835	589,835	- 15,000
190	DEFENSE CONTRACT AUDIT AGENCY—CYBER	3,282	3,282	.....
110	DEFENSE CONTRACT MANAGEMENT AGENCY	1,370,681	1,370,681	.....
210	DEFENSE CONTRACT MANAGEMENT AGENCY—CYBER	22,532	22,532	.....
120	DEFENSE HUMAN RESOURCES ACTIVITY	799,952	859,452	+ 59,500
120	DEFENSE HUMAN RESOURCES ACTIVITY—CYBER	20,806	20,806	.....
130	DEFENSE INFORMATION SYSTEMS AGENCY	1,883,190	1,821,190	- 62,000
240	DEFENSE INFORMATION SYSTEMS AGENCY—CYBER	582,639	532,639	- 50,000
150	DEFENSE LEGAL SERVICES AGENCY	37,637	37,637	.....
160	DEFENSE LOGISTICS AGENCY	382,084	377,084	- 5,000
170	DEFENSE MEDIA ACTIVITY	196,997	196,997	.....
180	DEFENSE PERSONNEL ACCOUNTING AGENCY	129,225	129,225	.....
190	DEFENSE SECURITY COOPERATION AGENCY	598,559	610,159	+ 11,600
200	DEFENSE COUNTERINTELLIGENCE AND SECURITY AGENCY ...	949,008	949,008	.....
340	DEFENSE COUNTERINTELLIGENCE AND SECURITY AGENCY—CYBER	9,577	9,577	.....
220	DEFENSE TECHNOLOGY SECURITY AGENCY	38,432	38,432	.....
230	DEFENSE THREAT REDUCTION AGENCY	591,780	591,780	.....
400	DEFENSE THREAT REDUCTION AGENCY—CYBER	24,635	24,635	.....
250	DEPARTMENT OF DEFENSE EDUCATION ACTIVITY	2,941,429	2,994,429	+ 53,000
280	OFFICE OF ECONOMIC ADJUSTMENT	40,272	195,272	+ 155,000
290	OFFICE OF THE SECRETARY OF DEFENSE	1,540,446	1,453,196	- 87,250
420	MISSILE DEFENSE AGENCY	505,858	597,535	+ 91,677
470	OFFICE OF THE SECRETARY OF DEFENSE—CYBER	51,630	51,630	.....
480	SPACE DEVELOPMENT AGENCY	48,166	48,166	.....
310	WASHINGTON HEADQUARTERS SERVICES	340,291	329,291	- 11,000
	OTHER PROGRAMS	17,348,749	17,162,156	- 186,593
	TOTAL, BUDGET ACTIVITY 4	31,210,685	31,229,619	+ 18,934
	PROGRAM INCREASE: VIETNAM DIOXIN REMEDIATION .....	.....	15,000	+ 15,000
	PUBLIC LAW 115-68 IMPLEMENTATION .....	.....	1,500	+ 1,500
	TOTAL, OPERATION AND MAINTENANCE, DEFENSE-WIDE	38,649,079	38,584,918	- 64,161

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
1PL1	Joint Chiefs of Staff	439,111	414,111	- 25,000
	Maintain program affordability: Unjustified growth			- 25,000
1PL6	Special Operations Command Combat Development Activities	1,069,971	1,066,275	- 3,696
	Transfer: SOCOM-requested realignment from SAG IPLR for civilian personnel costs			+ 5,485
	Transfer: SOCOM-requested realignment to SAG IPLU for MIP civilian personnel costs			- 1,638
	Transfer: SOCOM-requested realignment to SAG IPLR for MISO activities			- 7,543
1PLU	Special Operations Command Intelligence	561,907	563,133	+ 1,226
	Improving funds management: Repricing DOMEX contractor FTEs			- 6,000
	Improving funds management: Repricing data scientist contractor FTEs			- 1,865
	Improving funds management: Overestimation of SOC-RATES licensing costs			- 992
	Transfer: SOCOM-requested realignment from SAG IPLR for civilian personnel costs			+ 8,445
	Transfer: SOCOM-requested realignment from SAG IPL6 for MIP civilian personnel costs			+ 1,638
1PL7	Special Operations Command Maintenance	685,097	698,609	+ 13,512
	Improving funds management: Overestimation of CCM sustainment requirements			- 1,778
	Maintain program affordability: Unjustified CCA growth			- 776
	Improving funds management: MQ-9 program decrease unaccounted for			- 4,512
	Improving funds management: FSOV-program decrease unaccounted for			- 2,189
	Improving funds management: MH-47/MH-60/MH-6 program decrease unaccounted for			- 24,950
	Maintain program affordability: Unjustified DCS growth			- 1,283
	Program increase: Sustain 137th SOW MC-12 capability			+ 49,000
1PLM	Special Operations Command Management/Operational Headquarters	158,971	165,668	+ 6,697
	Transfer: SOCOM-requested realignment from SAG IPLR for civilian personnel costs			+ 7,767
	Improving funds management: Overestimation of civilian personnel costs			- 1,070
1PLV	Special Operations Command Operational Support	1,062,748	1,017,352	- 45,396
	Insufficient budget justification: One-time base support decreases not properly accounted for			- 6,338
	Improving funds management: Windows 10-program decrease unaccounted for			- 36,597
	Improving funds management: C2MS-program decrease unaccounted for			- 7,108
	Improving funds management: SIPR OPP licenses-program decrease unaccounted for			- 2,550
	Improving funds management: Repricing RAA/VAK contractor FTEs			- 8,878
	Transfer: SOCOM-requested realignment from SAG IPLR for civilian personnel costs			+ 7,191
	Improving funds management: Overestimation of civilian personnel costs			- 1,116
	Program increase: Identity management			+ 10,000
1PLR	Special Operations Command Theater Forces	2,598,385	2,550,880	- 47,505
	Improving funds management: Overestimation of flying hours			- 14,737
	Improving funds management: Overestimation of A/MH-6M cost per flying hour rate			- 8,823

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
	Improving funds management: Overestimation of civilian personnel costs			- 2,033
	Transfer: SOCOM-requested realignment to SAG IPL6 for civilian personnel costs			- 5,485
	Transfer: SOCOM-requested realignment to SAG IPLU for civilian personnel costs			- 8,445
	Transfer: SOCOM-requested realignment to SAG IPLM for civilian personnel costs			- 7,767
	Transfer: SOCOM-requested realignment to SAG IPLV for civilian personnel costs			- 7,191
	Transfer: SOCOM-requested realignment to SAG 3EV8 for civilian personnel costs			- 567
	Transfer: SOCOM-requested realignment from SAG IPL6 for MISO activities			+ 7,543
3EV8	Special Operations Command/Professional Development Education	33,301	33,868	+ 567
	Transfer: SOCOM-requested realignment from SAG IPLR for civilian personnel costs			+ 567
4GT3	Civil Military Programs	147,993	212,993	+ 65,000
	Program increase: STARBASE			+ 15,000
	Program increase: National Guard Youth Challenge			+ 50,000
4GT6	Defense Contract Audit Agency	604,835	589,835	- 15,000
	Improving funds management: Program decrease unaccounted for			- 15,000
4GT8	Defense Human Resources Activity	799,952	859,452	+ 59,500
	Maintain program affordability: Unjustified growth			- 30,000
	Program increase: Defense Language Training Centers			+ 15,000
	Program increase: Demonstration project for contractors employing persons with disabilities			+ 5,000
	Program increase: Defense Suicide Prevention Office ..			+ 3,000
	Program increase: Suicide Prevention with focus on rural, remote, isolated, and OCONUS installations ..			+ 2,000
	Program increase: Beyond Yellow Ribbon			+ 22,000
	Program increase: Special Victims' Counsel			+ 35,000
	Program increase: Sexual Assault Prevention			+ 7,500
4GT9	Defense Information Systems Agency	1,883,190	1,821,190	- 62,000
	Improving funds management: Program decrease unaccounted for			- 37,000
	Maintain program affordability: Unjustified growth			- 25,000
4GU9	Defense Information Systems Agency-Cyber	582,639	532,639	- 50,000
	Improving funds management: Program decrease unaccounted for			- 50,000
4GTB	Defense Logistics Agency	382,084	377,084	- 5,000
	Maintain program affordability: Unjustified growth			- 23,000
	Program increase: Procurement Technical Assistance Program			+ 18,000
4GTD	Defense Security Cooperation Agency	598,559	610,159	+ 11,600
	Maintain program affordability: Unjustified growth for Institute for Security Governance			- 10,000
	Program increase: Irregular Warfare Functional Center			+ 10,000
	Program increase: Arctic Regional Center			+ 10,000
	Program increase: Gender Advisors-Building Partnership Capacity-Women's Programs			+ 1,600
4GTJ	Department of Defense Education Activity	2,941,429	2,994,429	+ 53,000
	Maintain program affordability: Unjustified growth			- 17,000
	Program increase: Impact Aid			+ 50,000
	Program increase: Impact Aid for children with severe disabilities			+ 20,000
011A	Missile Defense Agency	505,858	597,535	+ 91,677
	Maintain program affordability: GMD unjustified growth			- 8,323
	Program increase: AN/TPY-2 spares			+ 100,000
4GTM	Office of Economic Adjustment	40,272	195,272	+ 155,000

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
	Program increase: Defense Community Infrastructure Program			+ 100,000
	Program increase: Military Aircraft Noise Mitigation			+ 5,000
	Program increase: Defense Manufacturing Communities			+ 50,000
4GTN	Office of the Secretary of Defense	1,540,446	1,453,196	- 87,250
	Maintain program affordability: Unjustified growth			- 115,000
	Program increase: Interstate compacts for licensure and credentialing			+ 2,750
	Program increase: Readiness and Environmental Protection Initiative			+ 10,000
	Program increase: CDC water contamination study and assessment			+ 15,000
4GTQ	Washington Headquarters Services	340,291	329,291	- 11,000
	Maintain program affordability: Unjustified growth			- 11,000
9999	Classified Programs	17,348,749	17,162,156	- 186,593
	Classified adjustment			- 186,593
UNDIST	Program increase: Vietnam Dioxin Remediation		15,000	+ 15,000
UNDIST	Program increase: Public Law 115-68 Implementation		1,500	+ 1,500

Preservation of the Force and Families.—The Committee recognizes the unique stressors placed on our Special Operations Forces [SOF] through their high operational tempo and dynamic deployments and commends the Commander, United States Special Operations Command, on his prioritization of the Preservation of the Force and Families [POTFF] program. The POTFF program provides vital human, cognitive, psychological, spiritual, and social performance programs to the SOF enterprise. Based on recent command assessments, initial operational capability is anticipated in the fourth quarter of fiscal year 2023 with full operational capability achievable in fourth quarter of fiscal year 2025. Therefore, the Committee recommends the full fiscal year 2021 President's budget request of \$80,200,000, an increase of \$9,100,000 over the fiscal year 2020 enacted level. Further, the Committee encourages the Commander, United States Special Operations Command, to continue the required level of investment to meet its full operational capability projection.

Training Diversity.—The Committee believes that training for Special Operation Forces is more effective when training locations replicate the environment of real world operations. The Committee notes that former surface mine sites provide a unique austere environment that can meet some of these training requirements and encourages the Commander, United States Special Operations Command, to assess the potential use of such environments for training purposes.

Special Victims' Counsel Program.—The Committee remains concerned with the level of sexual assault in the military and supports the Department's continuing efforts to strengthen its sexual assault prevention and response program. The needs of victims of sexual assault for legal advice and guidance are particularly acute. To ensure that the Department continues to make progress in protecting victims' confidentiality and ending alienation during the investigation and prosecution of their case, the Committee recommends \$35,000,000 for implementation of the Special Victims' Counsel Program across the services.

Sexual Assault Prevention Plan of Action.—The Committee recommends an additional \$7,500,000 for the Sexual Assault Prevention and Response Office for continued implementation of the Prevention Plan of Action and to fund prevention efforts throughout the services. The Committee acknowledges that the release of the Department of Defense Sexual Assault Prevention Plan of Action in April 2019 is a positive step toward preventing instances of sexual assault, but additional resources are needed to address the high rates of sexual assault across the force. The Director of the Sexual Assault Prevention and Response Office is directed to brief the House and Senate Appropriations Committees on the plans for the execution of the \$7,500,000 not later than 90 days after the enactment of this act.

Defense Language and National Security Education Office.—The Committee recognizes that, in partnership with universities across the country, the Defense Language and National Security Education Office provides critical college accredited training for service members and government officials in a number of languages and strategic cultures. The Committee encourages the Department of Defense to continue placing a high priority on the Language Training Centers and the Language Flagship strategic language training program. The Committee designates the funding included in the fiscal year 2021 President's budget request for the Language Training Centers as a congressional special interest item and directs that the funding profile for the Language Training Centers in total for the prior year, current year, and budget year be included in the Performance Criteria section of the Defense Human Resources Activity OP-5 budget exhibit in future submissions.

Feasibility of Language and Cultural Competency Training for State Partnership Program.—Through the Defense Language and National Security Education Office [DLNSEO], the Department of Defense provides critical language training and cultural competency to DoD personnel. The Secretary of Defense is directed to submit a feasibility study for a pilot of a language skills and cultural competency program through existing DLNSEO contracts to benefit the State Partnership Program [SPP] between National Guard units and partner governments. The pilot should look at multiple partnerships to provide insight into program design, curriculum, and utilization of accredited universities local to National Guard units to improve SPP interactions.

Defense POW/MIA Accounting Agency.—The Committee reaffirms its support for the significant remains recovery goals outlined in the National Defense Authorization Act for Fiscal Year 2010 (Public Law 111-84) and commends the Defense POW/MIA Accounting Agency [DPAA] for undertaking trial contracts with Carnegie R1 Research Universities to more effectively account for missing personnel and ensure their families receive accurate information. In light of this progress and the continued need for additional recovery efforts, the Committee directs the Director of DPAA to brief the House and Senate Appropriations Committees not later than 60 days after the enactment of this act on DPAA's plans for expanding these trial contracts into a systematic research and recovery process, through partnership(s) with Carnegie R1 research

universities, focusing both on previously prioritized cases and developing a pilot program for addressing inactive cases.

Enhancing the Capability of Military Criminal Investigative Organizations to Prevent and Combat Child Sexual Exploitation.—The Committee recognizes the important role that the Department of Defense plays in preventing and combating child sexual exploitation. The Committee directs a designee of the Secretary of Defense to provide a briefing to the House and Senate Appropriations Committees, not later than 30 days after the enactment of this act, regarding an update on the initiative established under Section 550D of the National Defense Authorization Act for Fiscal Year 2020 (Public Law 116–92). The briefing shall also address opportunities within the following subject matters: (1) establishing cooperative agreements and co-training with the relevant Federal, State, local, and other law enforcement agencies; (2) integrating child protective services and organizations into the initiative; and (3) implementing recommendations made in the General Accountability Office’s report titled “Increased Guidance and Collaboration Needed to Improve DoD’s Tracking and Response to Child Abuse” (GAO–20–110).

Private Sector Technology Solutions for Verifications.—The Committee values the use of technology to enhance capabilities and identify savings across administrative operations. The Committee encourages the Director of the Defense Finance and Accounting Service to consider the use of private sector technology solutions to provide verifications of the employment status and income of military personnel and retirees as permitted under the Fair Credit Reporting Act.

Security Assistance Reporting Requirements.—The Secretary of Defense is directed to submit reports, on a quarterly basis, to the congressional defense committees not later than 30 days after the last day of each quarter of the fiscal year that detail commitment, obligation, and expenditure data by sub-activity group for Operation and Maintenance, Defense-Wide, Defense Security Cooperation Agency.

OPERATION AND MAINTENANCE, ARMY RESERVE

Appropriations, 2020	\$2,984,494,000
Budget estimate, 2021	2,934,717,000
Committee recommendation	2,885,717,000

The Committee recommends an appropriation of \$2,885,717,000. This is \$49,000,000 below the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

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

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
	OPERATION AND MAINTENANCE, ARMY RESERVE			
	BUDGET ACTIVITY 1: OPERATING FORCES			
	LAND FORCES			
10	MODULAR SUPPORT BRIGADES	10,784	10,784	.....
20	ECHELONS ABOVE BRIGADES	530,425	530,425	.....
30	THEATER LEVEL ASSETS	123,737	123,737	.....
40	LAND FORCES OPERATIONS SUPPORT	589,582	559,582	- 30,000
50	AVIATION ASSETS	89,332	89,332	.....
	LAND FORCES READINESS			
60	FORCES READINESS OPERATIONS SUPPORT	387,545	387,545	.....
70	LAND FORCES SYSTEM READINESS	97,569	97,569	.....
80	DEPOT MAINTENANCE	43,148	43,148	.....
	LAND FORCES READINESS SUPPORT			
90	BASE OPERATIONS SUPPORT	587,098	587,098	.....
100	FACILITIES SUSTAINMENT, RESTORATION & MODERNIZATION	327,180	327,180	.....
110	MANAGEMENT AND OPERATIONS HEADQUARTERS	28,783	28,783	.....
120	CYBERSPACE ACTIVITIES—CYBERSPACE OPERATIONS	2,745	2,745	.....
130	CYBERSPACE ACTIVITIES—CYBERSECURITY	7,438	7,438	.....
	TOTAL, BUDGET ACTIVITY 1	2,825,366	2,795,366	- 30,000
	BUDGET ACTIVITY 4: ADMIN & SERVICEWIDE ACTIVITIES			
	ADMINISTRATION AND SERVICEWIDE ACTIVITIES			
120	SERVICEWIDE TRANSPORTATION	15,530	15,530	.....
130	ADMINISTRATION	17,761	12,761	- 5,000
140	SERVICEWIDE COMMUNICATIONS	14,256	14,256	.....
150	MANPOWER MANAGEMENT	6,564	6,564	.....
160	RECRUITING AND ADVERTISING	55,240	55,240	.....
	TOTAL, BUDGET ACTIVITY 4	109,351	104,351	- 5,000
	UNJUSTIFIED GROWTH .....	.....	- 14,000	- 14,000
	TOTAL, OPERATION AND MAINTENANCE, ARMY RESERVE	2,934,717	2,885,717	- 49,000

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
115	Land Forces Operations Support	589,582	559,582	- 30,000
	Maintain program affordability: Unjustified growth .....	.....	.....	- 30,000
431	Administration	17,761	12,761	- 5,000
	Improving funds management: Program decrease unaccounted for .....	.....	.....	- 5,000
UNDIST	Maintain program affordability: Unjustified growth .....	.....	- 14,000	- 14,000

OPERATION AND MAINTENANCE, NAVY RESERVE

Appropriations, 2020	\$1,102,616,000
Budget estimate, 2021	1,127,046,000
Committee recommendation	1,103,046,000

The Committee recommends an appropriation of \$1,103,046,000. This is \$24,000,000 below the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

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

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
	OPERATION AND MAINTENANCE, NAVY RESERVE			
	BUDGET ACTIVITY 1: OPERATING FORCES			
	RESERVE AIR OPERATIONS			
10	MISSION AND OTHER FLIGHT OPERATIONS	635,070	615,070	— 20,000
20	INTERMEDIATE MAINTENANCE	8,713	8,713	.....
30	AIRCRAFT DEPOT MAINTENANCE	105,088	105,088	.....
40	AIRCRAFT DEPOT OPERATIONS SUPPORT	398	398	.....
50	AVIATION LOGISTICS	27,284	27,284	.....
	RESERVE SHIP OPERATIONS			
	RESERVE COMBAT OPERATIONS SUPPORT			
70	COMBAT COMMUNICATIONS	17,894	17,894	.....
80	COMBAT SUPPORT FORCES	132,862	132,862	.....
90	CYBERSPACE ACTIVITIES	453	453	.....
	RESERVE WEAPONS SUPPORT			
100	ENTERPRISE INFORMATION TECHNOLOGY	26,073	26,073	.....
	BASE OPERATING SUPPORT			
110	FACILITIES SUSTAINMENT, RESTORATION & MODERNIZATION	48,762	48,762	.....
120	BASE OPERATING SUPPORT	103,580	103,580	.....
	TOTAL, BUDGET ACTIVITY 1	1,106,177	1,086,177	— 20,000
	BUDGET ACTIVITY 4: ADMIN & SERVICEWIDE ACTIVITIES			
	ADMINISTRATION AND SERVICEWIDE ACTIVITIES			
130	ADMINISTRATION	1,927	1,927	.....
140	MILITARY MANPOWER & PERSONNEL	15,895	15,895	.....
160	ACQUISITION AND PROGRAM MANAGEMENT	3,047	3,047	.....
	TOTAL, BUDGET ACTIVITY 4	20,869	20,869	.....
	OVERESTIMATION OF CIVILIAN FTE TARGETS .....	.....	— 4,000	— 4,000
	TOTAL, OPERATION AND MAINTENANCE, NAVY RESERVE	1,127,046	1,103,046	— 24,000

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
1A1A	Mission and Other Flight Operations	635,070	615,070	— 20,000
	Maintain program affordability: Projected underexecution .....	.....	.....	— 20,000
UNDIST	Maintain program affordability: Overestimation of Civilian FTE targets .....	.....	— 4,000	— 4,000

OPERATION AND MAINTENANCE, MARINE CORPS RESERVE

Appropriations, 2020	\$289,076,000
Budget estimate, 2021	284,656,000
Committee recommendation	281,656,000

The Committee recommends an appropriation of \$281,656,000. This is \$3,000,000 below the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

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

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
	OPERATION AND MAINTENANCE, MARINE CORPS RESERVE			
	BUDGET ACTIVITY 1: OPERATING FORCES			
	EXPEDITIONARY FORCES			
10	OPERATING FORCES	104,616	104,616	
20	DEPOT MAINTENANCE	17,053	17,053	
30	FACILITIES SUSTAINMENT, RESTORATION & MODERNIZATION	41,412	41,412	
40	BASE OPERATING SUPPORT	107,773	107,773	
	TOTAL, BUDGET ACTIVITY 1	270,854	270,854	
	BUDGET ACTIVITY 4: ADMIN & SERVICEWIDE ACTIVITIES			
	ADMINISTRATION AND SERVICEWIDE ACTIVITIES			
60	ADMINISTRATION	13,802	13,802	
	TOTAL, BUDGET ACTIVITY 4	13,802	13,802	
	OVERESTIMATION OF CIVILIAN FTE TARGETS		-3,000	-3,000
	TOTAL, OPERATION & MAINTENANCE, MARINE CORPS RESERVE	284,656	281,656	-3,000

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
UNDIST	Maintain program affordability: Overestimation of civilian FTE targets		-3,000	-3,000

OPERATION AND MAINTENANCE, AIR FORCE RESERVE

Appropriations, 2020	\$3,227,318,000
Budget estimate, 2021	3,350,284,000
Committee recommendation	3,251,284,000

The Committee recommends an appropriation of \$3,251,284,000. This is \$99,000,000 below the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

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

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
	OPERATION AND MAINTENANCE, AIR FORCE RESERVE			
	BUDGET ACTIVITY 1: OPERATING FORCES			
	AIR OPERATIONS			
10	PRIMARY COMBAT FORCES	1,782,016	1,742,016	- 40,000
20	MISSION SUPPORT OPERATIONS	215,209	206,209	- 9,000
30	DEPOT MAINTENANCE	453,896	453,896	.....
40	FACILITIES SUSTAINMENT, RESTORATION & MODERNIZATION	103,414	103,414	.....
70	CYBERSPACE ACTIVITIES	2,259	2,259	.....
50	CONTRACTOR LOGISTICS SUPPORT AND SYSTEM SUPPORT ...	224,977	224,977	.....
60	BASE OPERATING SUPPORT	452,468	452,468	.....
	TOTAL, BUDGET ACTIVITY 1	3,234,239	3,185,239	- 49,000
	BUDGET ACTIVITY 4: ADMIN & SERVICEWIDE ACTIVITIES			
	ADMINISTRATION AND SERVICEWIDE ACTIVITIES			
70	ADMINISTRATION	74,258	74,258	.....
80	RECRUITING AND ADVERTISING	23,121	23,121	.....
90	MILITARY MANPOWER AND PERSONNEL MANAGEMENT	12,006	12,006	.....
100	OTHER PERSONNEL SUPPORT	6,165	6,165	.....
110	AUDIOVISUAL	495	495	.....
	TOTAL, BUDGET ACTIVITY 4	116,045	116,045	.....
	OVERESTIMATION OF CIVILIAN FTE TARGETS .....	.....	- 40,000	- 40,000
	UNJUSTIFIED GROWTH .....	.....	- 30,000	- 30,000
	AUTHORIZATION ADJUSTMENT: RESTORE A-10 .....	.....	15,000	+ 15,000
	AUTHORIZATION ADJUSTMENT: RESTORE KC-135 .....	.....	5,000	+ 5,000
	TOTAL, OPERATION AND MAINTENANCE, AIR FORCE RESERVE	3,350,284	3,251,284	- 99,000

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
011A	Primary Combat Forces	1,782,016	1,742,016	- 40,000
	Maintain Program Affordability: Projected underexecution .....	.....	.....	- 40,000
011G	Mission Support Operations	215,209	206,209	- 9,000
	Maintain Program Affordability: Unjustified growth .....	.....	.....	- 9,000
UNDIST	Maintain program affordability: Overestimation of civilian FTE targets .....	.....	- 40,000	- 40,000
UNDIST	Maintain Program Affordability: Unjustified growth .....	.....	- 30,000	- 30,000
UNDIST	Authorization adjustment: Restore A-10 .....	.....	15,000	+ 15,000
UNDIST	Authorization adjustment: Restore KC-135 .....	.....	5,000	+ 5,000

OPERATION AND MAINTENANCE, ARMY NATIONAL GUARD

Appropriations, 2020	\$7,461,947,000
Budget estimate, 2021	7,420,014,000
Committee recommendation	7,349,548,000

The Committee recommends an appropriation of \$7,349,548,000. This is \$70,466,000 below the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

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

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
	OPERATION AND MAINTENANCE, ARMY NATIONAL GUARD			
	BUDGET ACTIVITY 1: OPERATING FORCES			
	LAND FORCES			
10	MANEUVER UNITS	769,449	781,449	+ 12,000
20	MODULAR SUPPORT BRIGADES	204,604	204,604	.....
30	ECHELONS ABOVE BRIGADE	812,072	812,072	.....
40	THEATER LEVEL ASSETS	103,650	93,650	- 10,000
50	LAND FORCES OPERATIONS SUPPORT	32,485	32,485	.....
60	AVIATION ASSETS	1,011,142	995,142	- 16,000
	LAND FORCES READINESS			
70	FORCE READINESS OPERATIONS SUPPORT	712,881	716,915	+ 4,034
80	LAND FORCES SYSTEMS READINESS	47,732	47,732	.....
90	LAND FORCES DEPOT MAINTENANCE	265,408	265,408	.....
	LAND FORCES READINESS SUPPORT			
100	BASE OPERATIONS SUPPORT	1,106,704	1,122,704	+ 16,000
110	FACILITIES SUSTAINMENT, RESTORATION & MODERNIZATION	876,032	876,032	.....
120	MANAGEMENT AND OPERATIONAL HEADQUARTERS	1,050,257	1,050,257	.....
130	CYBERSPACE ACTIVITIES—CYBERSPACE OPERATIONS	7,998	7,998	.....
140	CYBERSPACE ACTIVITIES—CYBERSECURITY	7,756	7,756	.....
	TOTAL, BUDGET ACTIVITY 1	7,008,170	7,014,204	+ 6,034
	BUDGET ACTIVITY 4: ADMIN & SERVICEWIDE ACTIVITIES			
	ADMINISTRATION AND SERVICEWIDE ACTIVITIES			
130	SERVICEWIDE TRANSPORTATION	8,018	8,018	.....
140	ADMINISTRATION	74,309	74,309	.....
150	SERVICEWIDE COMMUNICATIONS	66,140	66,140	.....
160	MANPOWER MANAGEMENT	9,087	9,087	.....
170	OTHER PERSONNEL SUPPORT	251,714	248,214	- 3,500
180	REAL ESTATE MANAGEMENT	2,576	2,576	.....
	TOTAL, BUDGET ACTIVITY 4	411,844	408,344	- 3,500
	UNJUSTIFIED GROWTH .....	.....	- 73,000	- 73,000
	TOTAL, OPERATION & MAINTENANCE, ARMY NATIONAL GUARD	7,420,014	7,349,548	- 70,466

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
111	Maneuver Units	769,449	781,449	+ 12,000
	Program increase: Exercise NORTHERN STRIKE			+ 12,000
114	Theater Level Assets	103,650	93,650	- 10,000
	Maintain program affordability: Unjustified growth			- 10,000
116	Aviation Assets	1,011,142	995,142	- 16,000
	Maintain program affordability: Unjustified growth			- 16,000
121	Force Readiness Operations Support	712,881	716,915	+ 4,034
	Program increase: Corrosion control			+ 2,000
	Program increase: Wildfire training			+ 1,500
	Program increase: Advanced trauma training program			+ 534
131	Base Operations Support	1,106,704	1,122,704	+ 16,000
	Improving funds management: Remove one-time fiscal year 2020 cost			- 7,000
	Program increase: PFAS remediation			+ 20,000
	Program increase: Warrior Resiliency and Fitness			+ 3,000
434	Other Personnel Support	251,714	248,214	- 3,500
	Improving funds management: Remove one-time fiscal year 2020 cost			- 3,500
UNDIST	Maintain program affordability: Unjustified growth		- 73,000	- 73,000

State Partnership Program.—The State Partnership Program [SPP] has been successfully building relationships for over 25 years by linking a State's National Guard with the armed forces or equivalent of a partner country in a cooperative, mutually beneficial relationship. It includes 78 unique security partnerships involving 84 nations around the globe. The Committee recognizes the importance of SPP and encourages continued robust support of this important partnership program.

OPERATION AND MAINTENANCE, AIR NATIONAL GUARD

Appropriations, 2020	\$6,655,292,000
Budget estimate, 2021	6,753,642,000
Committee recommendation	6,784,996,000

The Committee recommends an appropriation of \$6,784,996,000. This is \$31,354,000 above the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

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

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
	OPERATION AND MAINTENANCE, AIR NATIONAL GUARD			
	BUDGET ACTIVITY 1: OPERATING FORCES			
	AIR OPERATIONS			
10	AIRCRAFT OPERATIONS	2,476,205	2,476,205	.....
20	MISSION SUPPORT OPERATIONS	611,325	628,679	+ 17,354
30	DEPOT MAINTENANCE	1,138,919	1,138,919	.....
40	FACILITIES SUSTAINMENT, RESTORATION & MODERNIZATION	323,605	323,605	.....
80	CYBERSPACE ACTIVITIES	16,380	16,380	.....
80	CYBERSPACE SUSTAINMENT	27,028	27,028	.....
50	CONTRACTOR LOGISTICS SUPPORT AND SYSTEM SUPPORT ...	1,100,828	1,100,828	.....
60	BASE OPERATING SUPPORT	962,438	977,438	+ 15,000

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
	TOTAL, BUDGET ACTIVITY 1	6,656,728	6,689,082	+ 32,354
	BUDGET ACTIVITY 4: ADMIN & SERVICEWIDE ACTIVITIES			
	SERVICEWIDE ACTIVITIES			
70	ADMINISTRATION	48,218	37,218	- 11,000
80	RECRUITING AND ADVERTISING	48,696	48,696	.....
	TOTAL, BUDGET ACTIVITY 4	96,914	85,914	- 11,000
	UNJUSTIFIED GROWTH .....	.....	- 60,000	- 60,000
	AUTHORIZATION ADJUSTMENT: RESTORE A-10 .....	.....	70,000	+ 70,000
	TOTAL, OPERATION & MAINTENANCE, AIR NATIONAL GUARD	6,753,642	6,784,996	+ 31,354

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
011G	Mission Support Operations	611,325	628,679	+ 17,354
	Program increase: Joint Terminal Attack Controller training .....	.....	.....	+ 8,000
	Program increase: Tuition assistance .....	.....	.....	+ 4,000
	Program increase: Advanced trauma training program .....	.....	.....	+ 1,782
	Program increase: Wildfire training .....	.....	.....	+ 572
	Program increase: Warrior Resiliency and Fitness .....	.....	.....	+ 3,000
011Z	Base Support	962,438	977,438	+ 15,000
	Program increase: PFAS remediation .....	.....	.....	+ 15,000
042A	Administration	48,218	37,218	- 11,000
	Maintain program affordability: Overestimation of civilian FTEs .....	.....	.....	- 11,000
UNDIST	Maintain program affordability: Unjustified growth .....	.....	- 60,000	- 60,000
UNDIST	Authorization adjustment: Restore A-10 .....	.....	+ 70,000	+ 70,000

U.S. COURT OF APPEALS FOR THE ARMED FORCES

Appropriations, 2020	\$14,771,000
Budget estimate, 2021	15,211,000
Committee recommendation	15,211,000

The Committee recommends an appropriation of \$15,211,000. This is equal to the budget estimate.

ENVIRONMENTAL RESTORATION, ARMY

Appropriations, 2020	\$251,700,000
Budget estimate, 2021	207,518,000
Committee recommendation	207,518,000

The Committee recommends an appropriation of \$207,518,000. This is equal to the budget estimate.

ENVIRONMENTAL RESTORATION, NAVY

Appropriations, 2020	\$385,000,000
Budget estimate, 2021	\$335,932,000
Committee recommendation	352,932,000

The Committee recommends an appropriation of \$352,932,000. This is \$17,000,000 above the budget estimate to address costs associated with remediating contamination caused by perfluorinated chemicals.

ENVIRONMENTAL RESTORATION, AIR FORCE

Appropriations, 2020	\$485,000,000
Budget estimate, 2021	303,926,000
Committee recommendation	303,926,000

The Committee recommends an appropriation of \$303,926,000. This is equal to the budget estimate.

ENVIRONMENTAL RESTORATION, DEFENSE-WIDE

Appropriations, 2020	\$19,002,000
Budget estimate, 2021	9,105,000
Committee recommendation	9,105,000

The Committee recommends an appropriation of \$9,105,000. This is equal to the budget estimate.

ENVIRONMENTAL RESTORATION, FORMERLY USED DEFENSE SITES

Appropriations, 2020	\$275,000,000
Budget estimate, 2021	216,587,000
Committee recommendation	216,587,000

The Committee recommends an appropriation of \$216,587,000. This is equal to the budget estimate.

OVERSEAS HUMANITARIAN, DISASTER, AND CIVIC AID

Appropriations, 2020	\$135,000,000
Budget estimate, 2021	109,900,000
Committee recommendation	109,900,000

The Committee recommends an appropriation of \$109,900,000. This is equal to the budget estimate.

COOPERATIVE THREAT REDUCTION ACCOUNT

Appropriations, 2020	\$373,700,000
Budget estimate, 2021	238,490,000
Committee recommendation	238,490,000

The Committee recommends an appropriation of \$238,490,000. This is equal to the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

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

[In thousands of dollars]

Item	2021 budget estimate	Committee recommendation	Change from budget estimate
COOPERATIVE THREAT REDUCTION			
Strategic Offensive Arms Elimination	2,924	2,924	.....
Chemical Security and Elimination	11,806	11,806	.....
Global Nuclear Security	20,152	20,152	.....

[In thousands of dollars]

Item	2021 budget estimate	Committee recommendation	Change from budget estimate
Biological Threat Reduction Program	127,396	127,396	.....
Proliferation Prevention Program	52,064	52,064	.....
Other Assessments/Admin Costs	24,148	24,148	.....
Total, Cooperative Threat Reduction Account	238,490	238,490	.....

DEPARTMENT OF DEFENSE ACQUISITION WORKFORCE DEVELOPMENT ACCOUNT

Appropriations, 2020	\$400,000,000
Budget estimate, 2021	58,181,000
Committee recommendation	108,181,000

The Committee recommends an appropriation of 108,181,000. This is \$50,000,000 above the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

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

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
1	Training and Development	55,386	105,386	+ 50,000
	Program increase: Acquisition workforce training .....	.....	.....	+ 50,000
2	Retention and Recognition	1,358	1,358	.....
3	Recruiting and Hiring	1,437	1,437	.....
	Total, Department of Defense Acquisition Workforce Development Account	58,181	108,181	+ 50,000

Funding for the Department of Defense Acquisition Workforce.—The fiscal year 2021 President’s budget request proposes to transfer \$140,320,000 previously programmed in the Department of Defense Acquisition Workforce Development Account [DAWDA] to the Army, Navy, and Air Force operation and maintenance accounts for acquisition workforce personnel. The Committee supports these transfers and addresses the requirement to maintain visibility into funding for the acquisition workforce in the “Operation and Maintenance” section of this explanatory statement. In addition, the fiscal year 2021 President’s budget requests includes \$58,181,000 in DAWDA. The Committee reiterates its support for the Department of Defense acquisition workforce and recommends an additional \$50,000,000 for DAWDA training and development due to increased demands on the acquisition workforce.

The Committee expects the Under Secretary of Defense (Comptroller), the Under Secretary of Defense (Acquisition and Sustainment), the Director, Cost Assessment and Program Evaluation, as well as the service acquisition executives and service financial managers and comptroller to continue including clearly identified and appropriate funding requests for the Department of Defense acquisition workforce in DAWDA and the service operation and maintenance appropriation accounts.

Department of Defense Acquisition Workforce Reporting Requirements.—The Committee directs the Under Secretary for Defense (Acquisition and Sustainment) to provide the Department of Defense Acquisition Workforce Development Account annual report to the congressional defense committees not later than 30 days after submission of the fiscal year 2022 President’s budget request. Further, as in previous years, the Under Secretary of Defense (Acquisition and Sustainment) is directed to provide the congressional defense committees with the fiscal year 2022 President’s budget request additional details regarding total funding for the acquisition workforce by funding category and appropriations accounts.

Department of Defense Acquisition Workforce Development Account Reprogramming Guidance.—The Secretary of Defense is directed to follow reprogramming guidance for the DAWDA consistent with reprogramming guidance for acquisition accounts detailed elsewhere in this explanatory statement. The dollar threshold for reprogramming DAWDA funds remains \$10,000,000.

**TITLE III
PROCUREMENT**

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

The President's fiscal year 2021 budget requests a total of \$130,866,091,000 for procurement appropriations.

SUMMARY OF COMMITTEE ACTION

The Committee recommends procurement appropriations totaling \$133,304,819,000 for fiscal year 2021. This is \$2,438,728,000 above the budget estimate.

Committee recommended procurement appropriations for fiscal year 2021 are summarized below:

SUMMARY OF PROCUREMENT APPROPRIATIONS

[In thousands of dollars]

Account	2021 budget estimate	Committee recommendation	Change from budget estimate
Procurement:			
Aircraft Procurement, Army	3,074,594	3,233,194	+ 158,600
Missile Procurement, Army	3,491,507	3,190,699	- 300,808
Procurement of Weapons and Tracked Combat Vehicles, Army	3,696,740	3,825,082	+ 128,342
Procurement of Ammunition, Army	2,777,716	2,827,369	+ 49,653
Other Procurement, Army	8,625,206	8,647,745	+ 22,539
Aircraft Procurement, Navy	17,127,378	18,795,890	+ 1,668,512
Weapons Procurement, Navy	4,884,995	4,626,495	- 258,500
Procurement of Ammunition, Navy and Marine Corps	883,602	819,809	- 63,793
Shipbuilding and Conversion, Navy	19,902,757	21,346,405	+ 1,443,648
Other Procurement, Navy	10,948,518	10,889,894	- 58,624
Procurement, Marine Corps	2,903,976	2,722,853	- 181,123
Aircraft Procurement, Air Force	17,908,145	18,360,141	+ 451,996
Missile Procurement, Air Force	2,396,417	2,281,817	- 114,600
Procurement of Ammunition, Air Force	596,338	562,844	- 33,494
Other Procurement, Air Force	23,695,720	23,225,804	- 469,916
Procurement, Space Force	2,446,064	2,227,179	- 218,885
Procurement, Defense-Wide	5,324,487	5,556,960	+ 232,473
Defense Production Act Purchases	181,931	164,639	- 17,292
Total	130,866,091	133,304,819	+ 2,438,728

**REPROGRAMMING GUIDANCE FOR ACQUISITION ACCOUNTS
(INCLUDING BASE AND OVERSEAS CONTINGENCY OPERATIONS
FUNDING)**

The Secretary of Defense is directed to continue to follow the reprogramming guidance as specified in the report accompanying the

House version of the Department of Defense appropriations bill for fiscal year 2008 (House Report 110–279). Specifically, the dollar threshold for reprogramming funds will remain at \$10,000,000 for procurement and research, development, test and evaluation.

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

FUNDING INCREASES

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

PROCUREMENT SPECIAL INTEREST ITEMS

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

PROCUREMENT OVERVIEW

Budgeting for Advance Procurement.—Advance procurement [AP] appropriations are provided as an exception to the policy of full funding of end items. The Committee notes that AP funding is, by policy, to be used to procure long lead items whose early procurement allows for production schedules to be maintained.

The Committee notes that in the fiscal year 2020 President’s budget request, the Navy planned to procure 12 CH–53Ks in fiscal year 2021 and therefore requested and was subsequently appropriated \$215,000,000 in AP for those 12 aircraft. However, the fiscal year 2021 President’s budget request includes \$813,324,000 in Aircraft Procurement, Navy for the procurement of seven CH–53K helicopters, a reduction of \$515,464,000 and a quantity of five aircraft from the amount identified in the prior year budget justifica-

tion materials for fiscal year 2021. The Committee notes that not only did the Navy reduce the helicopters requested in fiscal year 2021 contrary to its prior year plans, it failed to fully budget for the procurement of the seven CH-53Ks requested. The budget request proposed to apply excess fiscal year 2020 AP appropriations to cover the balance of the fiscal year 2021 funding shortfall. The Committee notes that this blurs the line between the purpose for AP funding and full funding of procurement items, which injects uncertainty into the industrial base, jeopardizes the stability of the program, and complicates oversight. In addition, downward adjustments to end items following the request for and receipt of advance procurement appropriations absent a clear rationale, such as a reduction in the acquisition objective or challenges with the industrial base, violate the agreement between the Department of Defense and the congressional defense committees with respect to granting exceptions to the full funding policy. The Committee notes that similar downward adjustments to end items following receipt of advance procurement appropriations occurred in the budget requests for the F-35B, MQ-4, and several shipbuilding programs in recent years.

Therefore, the Committee directs that with the fiscal year 2022 President's budget request, and for each submission thereafter, the Under Secretary of Defense (Comptroller) in coordination with the service acquisition executives for the Army, Navy, and Air Force provide, for any program for which AP is requested, the following information to the congressional defense committees: (1) list of the long lead items to be procured and associated end item these items will be incorporated into; (2) quantity of each type of item; (3) unit cost of each type of item; (4) schedule for production of each of the items; (5) an assessment of how much time and cost is saved by using advance procurement funding to buy the long lead items requested; and (6) certification that the balance of the funds for end items is included in the budget submission.

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

Arsenal Sustainment Initiative.—The Committee continues to support the Department of the Army's efforts to ensure that the critical manufacturing capabilities of the nation's organic industrial base are maintained, and commends the Army for issuing a definitive make-or-buy directive for the manufacturing arsenals. The guidance ensures that the arsenals will be given fair consideration for every Army acquisition; provides for a 30-day review of all such decisions by the Army Acquisition Executive; requires all private

sector companies to consider the arsenals as a potential supplier of component parts; and provides for an annual review of this overall process. The Committee encourages the Army to implement the directive consistently to ensure the arsenals have the workload necessary to maintain the proficiency and capacity to meet the manufacturing needs of the nation during war and peacetime. The Committee notes that it has not yet received detailed recommendations from the Secretary of Defense on how the Air Force, Navy, and Marine Corps can better use the arsenals for their manufacturing needs, or what opportunities may exist for the arsenals to assist the services and the Defense Logistics Agency to procure for the Department's spare parts inventory, as required by Senate Report 114-63.

AIRCRAFT PROCUREMENT, ARMY

Appropriations, 2020	\$3,771,329,000
Budget estimate, 2021	3,074,594,000
Committee recommendation	3,233,194,000

The Committee recommends an appropriation of \$3,233,194,000. This is \$158,600,000 above the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

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

[Dollars in thousands]

Line	Item	Qty.	2021 budget estimate	Qty.	Committee recommendation	Change from	
						Qty.	Budget estimate
	AIRCRAFT						
	FIXED WING						
1	UTILITY F/W CARGO AIRCRAFT		1,100		\$82,000		+ 82,000
3	FUTURE UAS FAMILY		20,851		1,100		
4	RQ-11 (RAVEN)				16,551		- 4,300
	ROTARY						
7	AH-64 APACHE BLOCK IIIA REMAN	50	792,027	50	792,027		
8	AH-64 APACHE BLOCK IIIA REMAN [AP-CY]		169,460		169,460		
11	UH-60 BLACKHAWK [MYP]	36	742,998	36	738,798		- 4,200
12	UH-60 BLACKHAWK [MYP] [AP-CY]		87,427		87,427		
13	UH-60 BLACKHAWK A AND L MODELS	24	172,797	24	165,197		- 7,600
14	CH-47 HELICOPTER	6	160,750	6	279,750		+ 119,000
15	CH-47 HELICOPTER [AP-CY]		18,372		18,372		
	TOTAL, AIRCRAFT		2,165,782		2,350,682		+ 184,900
	MODIFICATION OF AIRCRAFT						
18	UNIVERSAL GROUND CONTROL EQUIPMENT		7,509		7,509		
19	GRAY EAGLE MODS2		16,280		16,280		
20	MULTI SENSOR ABN RECON [MIP]		35,864		35,864		
21	AH-64 MODS		118,316		99,816		- 18,500
22	CH-47 CARGO HELICOPTER MODS		15,548		15,548		
23	GRCS SEMA MODS [MIP]		2,947		2,947		
24	ARL SEMA MODS [MIP]		9,598		9,598		
25	EMARSS SEMA MODS [MIP]		2,452		2,452		
26	UTILITY/CARGO AIRPLANE MODS		13,868		13,868		
27	UTILITY HELICOPTER MODS		25,842		25,842		
28	NETWORK AND MISSION PLAN		77,432		77,432		
29	COMMS, NAV SURVEILLANCE		101,355		101,355		
31	AVIATION ASSURED PNT		54,609		53,509		- 1,100
32	GATM ROLLUP		12,180		12,180		

[Dollars in thousands]

Line	Item	Qty.	2021 budget estimate	Qty.	Committee recommendation	Change from	
						Qty.	Budget estimate
34	UAS MODS		4,204		4,204		
	TOTAL, MODIFICATION OF AIRCRAFT		498,004		478,404		-19,600
	SUPPORT EQUIPMENT AND FACILITIES						
	GROUND SUPPORT AVIONICS						
35	AIRCRAFT SURVIVABILITY EQUIPMENT		49,455		49,455		
36	SURVIVABILITY CM		8,035		8,035		
37	CMWS		10,567		10,567		
38	COMMON INFRARED COUNTERMEASURES	120	237,467	120	230,767		-6,700
	OTHER SUPPORT						
39	AVIONICS SUPPORT EQUIPMENT		1,789		1,789		
40	COMMON GROUND EQUIPMENT		17,584		17,584		
41	AIRCREW INTEGRATED SYSTEMS		48,265		48,265		
42	AIR TRAFFIC CONTROL		26,408		26,408		
44	LAUNCHER, 275 ROCKET		2,256		2,256		
45	LAUNCHER GUIDED MISSILE: LONGBOW HELIFIRE XM2		8,982		8,982		
	TOTAL, SUPPORT EQUIPMENT AND FACILITIES		410,808		404,108		-6,700
	TOTAL, AIRCRAFT PROCUREMENT, ARMY		3,074,594		3,233,194		+158,600

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
1	Utility F/W Aircraft		82,000	+ 82,000
	Program increase: EMARSS-E			+ 82,000
4	RQ-11 (RAVEN)	20,851	16,551	- 4,300
	Restoring acquisition accountability: Spares acquisition strategy			- 4,300
11	UH-60 Blackhawk M Model [MYP]	742,998	738,798	- 4,200
	Restoring acquisition accountability: Program management growth			- 4,200
13	UH-60 Black Hawk A and L Models	172,797	165,197	- 7,600
	Restoring acquisition accountability: UH-60V installation u/c growth			- 3,200
	Improving funds management: H-60V installations previously funded			- 4,400
14	CH-47 Helicopter	160,750	279,750	+ 119,000
	Program increase: CH-47F Block II			+ 119,000
21	AH-64 Mods	118,316	99,816	- 18,500
	Restoring acquisition accountability: U/c growth sensors			- 18,500
31	Aviation Assured PNT	54,609	53,509	- 1,100
	Maintain program affordability: Program management maintain level of effort			- 1,100
38	Common Infrared Countermeasures (CIRCM)	237,467	230,767	- 6,700
	Restoring acquisition accountability: U/c cost growth			- 6,700

CH-47F Block II program.—The Committee recognizes that the Chinook is the only heavy-lift cargo helicopter in Army inventory and that plans to field a replacement capability have yet to be developed. The Committee commends the Army for its proactive approach to modernize its fleet of heavy lift helicopters with a Block II modernization program, which was determined to be the best value by an independent analysis of alternatives and would improve payload capability while decreasing sustainment costs. However, the Committee is concerned that a delay in production of Block II aircraft will cause uncertainty in the domestic supply chain, and delay or reduce the promised benefits of the modernization. Prior to submitting the fiscal year 2022 President's budget request, the Committee strongly encourages the Secretary of the Army to assess the increased cost, expected production issues, as well as industrial base risks of a delay in the Block II modernization.

MISSILE PROCUREMENT, ARMY

Appropriations, 2020	\$2,995,673,000
Budget estimate, 2021	3,491,507,000
Committee recommendation	3,190,699,000

The Committee recommends an appropriation of \$3,190,699,000. This is \$300,808,000 below the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

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

[Dollars in thousands]

Line	Item	Qty.	2021 budget estimate	Qty.	Committee recommendation	Change from	
						Qty.	Budget estimate
	MISSILE PROCUREMENT, ARMY						
	OTHER MISSILES						
	SURFACE-TO-AIR MISSILE SYSTEM						
2	M-SHORAD—PROCUREMENT	50	378,654	50	363,054		-15,600
3	MSE MISSILE	122	603,188	122	501,563		-101,625
4	PRECISION STRIKE MISSILE (PRSM)	30	49,941				-49,941
5	INDIRECT FIRE PROTECTION CAPABILITY		106,261		62,469		-43,792
	AIR-TO-SURFACE MISSILE SYSTEM						
6	HELLFIRE SYS SUMMARY	428	91,225	428	91,225		
7	JOINT AIR-TO-GROUND MSLS (JAGM)	657	213,397	657	213,397		
8	LONG RANGE PRECISION MUNITION		45,307		38,107		-7,200
	ANTI-TANK/ASSAULT MISSILE SYSTEM						
9	JAVELIN (AAWS-M) SYSTEM SUMMARY	773	190,325	773	181,325		-9,000
10	TOW 2 SYSTEM SUMMARY	1,405	121,074	1,405	112,974		-8,100
11	GUIDED MLRS ROCKET (GMLRS)	5,384	850,157	5,384	789,107		-61,050
12	MLRS REDUCED RANGE PRACTICE ROCKETS (RRPR)	3,270	30,836	3,270	30,836		
13	HIGH MOBILITY ARTILLERY ROCKET SYSTEM (HIMARS)	5	41,226	5	42,326		+1,100
	TOTAL, OTHER MISSILES		2,721,591		2,426,383		-295,208
	MODIFICATION OF MISSILES						
	MODIFICATIONS						
16	PATRIOT MODS		278,050		278,050		
17	ATACMS MODS		141,690		136,090		-5,600
20	AVENGER MODS		13,942		13,942		
21	ITAS/TOW MODS		5,666		5,666		
22	MLRS MODS		310,419		310,419		
23	HIMARS MODIFICATIONS		6,081		6,081		
	TOTAL, MODIFICATION OF MISSILES		755,848		750,248		-5,600
	SPARES AND REPAIR PARTS						
24	SPARES AND REPAIR PARTS		5,090		5,090		

[Dollars in thousands]

Line	Item	Qty.	2021 budget estimate	Qty.	Committee recommendation	Change from	
						Qty.	Budget estimate
25	SUPPORT EQUIPMENT AND FACILITIES		8,978		8,978		
	AIR DEFENSE TARGETS		8,978		8,978		
	TOTAL, SUPPORT EQUIPMENT AND FACILITIES		3,491,507		3,190,699		- 300,808

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
2	M-SHORAD—Procurement	378,654	363,054	— 15,600
	Restoring acquisition accountability: U/c growth			— 15,600
3	MSE Missile	603,188	501,563	— 101,625
	Restoring acquisition accountability: MRT/ERT u/c growth			— 5,100
	Insufficient budget justification: Obsolescence			— 6,725
	Restoring acquisition accountability: AUR u/c cost growth			— 89,800
4	PRECISION STRIKE MISSILE (PRSM)	49,941		— 49,941
	Restoring acquisition accountability: Schedule slips			— 49,941
5	INDIRECT FIRE PROTECTION CAPABILITY INC 2-1	106,261	62,469	— 43,792
	Restoring acquisition accountability: Acquisition strategy			— 40,492
	Restoring acquisition accountability: U/c growth			— 3,300
8	Long Range Precision Munition	45,307	38,107	— 7,200
	Restoring acquisition accountability: Acquisition strategy			— 7,200
9	Javelin (AAWS-M) System Summary	190,325	181,325	— 9,000
	Restoring acquisition accountability: LWCLU Schedule slips			— 9,000
10	Tow 2 System Summary	121,074	112,974	— 8,100
	Restoring acquisition accountability: U/c cost growth			— 1,000
	Restoring acquisition accountability: CAPS obsolescence concurrency			— 2,350
	Improving funds management: LAT prior year carry-over			— 4,750
11	Guided MLRS Rocket [GMLRS]	850,157	789,107	— 61,050
	Restoring acquisition accountability: GMLRS u/c growth			— 57,300
	Improving funds management: PVT forward financing			— 3,750
13	High Mobility Artillery Rocket System (HIMARS)	41,226	42,326	+ 1,100
	Insufficient budget justification: Fielding costs			— 1,000
	Insufficient budget justification: Support costs			— 7,900
	Transfer: Army-requested transfer of Homeland Defense increase from Operation and Maintenance, Army line 121			+ 10,000
17	ATACMS MODS	141,690	136,090	— 5,600
	Restoring acquisition accountability: U/c growth			— 5,600

**PROCUREMENT OF WEAPONS AND TRACKED COMBAT VEHICLES,
ARMY**

Appropriations, 2020	\$4,663,597,000
Budget estimate, 2021	3,696,740,000
Committee recommendation	3,825,082,000

The Committee recommends an appropriation of \$3,825,082,000. This is \$128,342,000 above the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

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

[Dollars in thousands]

Line	Item	Qty.	2021 budget estimate	Qty.	Committee recommendation	Change from	
						Qty.	Budget estimate
	PROCUREMENT OF WEAPONS AND TRACKED COMBAT VEHICLES (W&TCV), ARMY						
	TRACKED COMBAT VEHICLES						
2	ARMORED MULTI PURPOSE VEHICLE (AMPV)	32	192,971		79,254	-32	-113,717
4	MODIFICATION OF TRACKED COMBAT VEHICLES						
5	STRYKER UPGRADE	154	847,212	237	1,194,712	+83	+347,500
6	BRADLEY PROGRAM (MOD)		493,109		460,723		-32,386
7	M109 FOV MODIFICATIONS		26,893		26,893		
9	PALADIN INTEGRATED MANAGEMENT [PIM]	30	435,825	37	463,425	+7	+27,600
10	ASSAULT BRIDGE (MOD)		5,074		5,074		
11	ASSAULT BREACHER VEHICLE	4	19,500	4	19,500		
12	M88 FOV MODS		18,382		18,382		
13	JOINT ASSAULT BRIDGE	14	72,178	14	19,247		
14	M1 ABRAMS TANK (MOD)		392,013		392,013		-52,931
	ABRAMS UPGRADE PROGRAM	89	1,033,253	89	977,471		-55,782
	TOTAL, TRACKED COMBAT VEHICLES		3,536,410		3,656,694		+120,284
	WEAPONS AND OTHER COMBAT VEHICLES						
15	M240 MEDIUM MACHINE GUN (762MM)				12,500		+12,500
16	MULTI-ROLE ANTI-ARMOR ANTI-PERSONNEL WEAPONS				17,864		
18	MORTAR SYSTEMS		17,864		10,288		
19	XM320 GRENADE LAUNCHER MODULE (GLM)		10,288		5,969		
20	PRECISION SNIPER RIFLE		5,969		8,895		-1,242
21	COMPACT SEMI-AUTOMATIC SNIPER SYSTEM		10,137		999		
22	CARBINE		999		5,411		-2,000
23	NEXT GENERATION SQUAD WEAPON		7,411		35,822		
24	COMMON REMOTELY OPERATED WEAPONS STATION		35,822		24,534		
25	HANDGUN		24,534		4,662		
	MOD OF WEAPONS AND OTHER COMBAT VEH						
26	MK-19 GRENADE MACHINE GUN MODS		6,444		6,444		
27	M777 MODS		10,983		9,783		-1,200
28	M4 CARBINE MODS		4,824		4,824		
31	M240 MEDIUM MACHINE GUN MODS		6,385		6,385		

32	SNIPER RIFLES MODIFICATIONS	1,898	1,898	.....	.....	.....	.....
33	M119 MODIFICATIONS	2,009	2,009	.....	.....	.....	.....
34	MORTAR MODIFICATION	1,689	1,689	.....	.....	.....	.....
35	MODIFICATIONS LESS THAN \$50M (WOCV-WTCV)	2,604	2,604	.....	.....	.....	.....
	SUPPORT EQUIPMENT AND FACILITIES .....			.....	.....	.....	.....
36	ITEMS LESS THAN \$50M (WOCV-WTCV)	2,763	2,763	.....	.....	.....	.....
37	PRODUCTION BASE SUPPORT (WOCV-WTCV)	3,045	3,045	.....	.....	.....	.....
	TOTAL WEAPONS AND OTHER COMBAT VEHICLES	160,330	168,388	.....	.....	.....	+ 8,058
	TOTAL PROCUREMENT OF W&TCV, ARMY	3,696,740	3,825,082	.....	.....	.....	+ 128,342

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
2	Armored Multi Purpose Vehicle (AMPV)	192,971	79,254	- 113,717
	Improving funds management: Forward financing of vehicle manufacturing			- 113,717
4	Stryker Upgrade	847,212	1,194,712	+ 347,500
	Program increase: Stryker DVHA1 Procurement			+ 337,000
	Program increase: Stryker Terrestrial Layered System ..			+ 64,500
	Restoring acquisition accountability: Revised vehicle pricing			- 54,000
5	Bradley Program (MOD)	493,109	460,723	- 32,386
	Restoring acquisition accountability: Revised Underbelly Interim Solution (UBIS) pricing			- 17,229
	Improving funds management: Forward financing of system technical support			- 15,157
7	Paladin Integrated Management [PIM]	435,825	463,425	+ 27,600
	Program increase: Seven vehicles			+ 54,600
	Restoring acquisition accountability: Unit cost growth			- 27,000
12	Joint Assault Bridge	72,178	19,247	- 52,931
	Restoring acquisition accountability: Testing delays ...			- 52,931
14	Abrams Upgrade Program	1,033,253	977,471	- 55,782
	Restoring acquisition accountability: Revised vehicle pricing			- 55,782
15	M240 Medium Machine Gun (7.62mm)		12,500	+ 12,500
	Program increase: M240 Medium Machine Gun			+ 12,500
20	Precision Sniper Rifle	10,137	8,895	- 1,242
	Restoring acquisition accountability: Revised hardware costs			- 1,242
22	Carbine	7,411	5,411	- 2,000
	Insufficient budget justification: Contradiction in budget justification and program brief for PMO			- 2,000
27	M777 Mods	10,983	9,783	- 1,200
	Improving funds management: Forward financing of M777 retrofit			- 1,200

M240 Medium Machine Gun.—The Committee remains concerned with the stability of the M240 medium machine gun small arms industrial base. Therefore, the Committee recommends an additional \$12,500,000 above the fiscal year 2021 President's budget request for M240 medium machine gun production.

Mk93 Machine Gun Mount Upgrade Program.—The Committee continues to support the Army's effort to invest in soldier lethality improvements that ensure U.S. personnel are equipped with the best technology available, particularly with crew-served platforms such as the M2 50 caliber machine gun and the Mk19 grenade machine gun. The Committee commends the Army for investing in multiple upgrades to these weapon systems to increase their lethality and effectiveness. However, the Committee is concerned that, without upgrades to the Army's full inventory of Mk93 machine gun mounts utilized by the M2 and Mk19, the significant and important Army investments made in upgrades to weapon optics, fire control, enablers, and ammunition will not be fully realized.

The Committee encourages the Secretary of the Army to include funding for the Mk93 machine gun mount upgrade in the fiscal year 2022 President's budget request. Further, not later than 90

days after enactment of this act, the Committee directs the Secretary of the Army to provide to the congressional defense committees a report detailing plans to implement the Mk93 machine gun mount upgrade.

PROCUREMENT OF AMMUNITION, ARMY

Appropriations, 2020	\$2,578,575,000
Budget estimate, 2021	2,777,716,000
Committee recommendation	2,827,369,000

The Committee recommends an appropriation of \$2,827,369,000. This is \$49,653,000 above the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

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

[Dollars in thousands]

Line	Item	Qty.	2021 budget estimate	Qty.	Committee recommendation	Change from	
						Qty.	Budget estimate
	AMMUNITION						
	SMALL/MEDIUM CAL AMMUNITION						
1	CTG. 56MM, ALL TYPES		68,472		65,659		-2,813
2	CTG. 762MM, ALL TYPES		109,933		109,933		
3	NEXT GENERATION SQUAD WEAPON AMMUNITION		11,988		11,988		
4	CTG. HANDGUN, ALL TYPES		853		853		
5	CTG. 50 CAL, ALL TYPES		58,280		57,927		-353
6	CTG. 20MM, ALL TYPES		31,708		31,708		
7	CTG. 25MM, ALL TYPES		9,111		9,111		
8	CTG. 30MM, ALL TYPES		58,172		57,876		-296
9	CTG. 40MM, ALL TYPES		114,638		114,638		
	MORTAR AMMUNITION						
10	60MM MORTAR, ALL TYPES		31,222		31,222		
11	81MM MORTAR, ALL TYPES		42,857		42,857		
12	120MM MORTAR, ALL TYPES		107,762		117,762		+10,000
	TANK AMMUNITION						
13	CTG. TANK 105MM AND 120MM: ALL TYPES		233,444		232,226		-1,218
	ARTILLERY AMMUNITION						
14	CTG. ARTY. 75MM AND 105MM: ALL TYPES		35,963		35,963		
15	ARTILLERY PROJECTILE, 155MM, ALL TYPES		293,692		291,292		-2,400
16	PROJ. 155MM EXTENDED RANGE XM982	597	69,159	597	54,412		-14,747
17	ARTILLERY PROPPELLANTS, FUZES AND PRIMERS, ALL TYPES		232,913		232,913		
	MINES						
18	MINES AND CLEARING CHARGES, ALL TYPES		65,278		65,278		
19	CLOSE TERRAIN SHAPING OBSTACLE		4,995		4,995		
	ROCKETS						
20	SHOULDER LAUNCHED MUNITIONS, ALL TYPES		69,112		69,112		
21	ROCKET, HYDRA 70, ALL TYPES		125,915		125,915		

22	OTHER AMMUNITION							
23	CAD/PAD ALL TYPES	8,891			8,891			
24	DEMOLITION MUNITIONS, ALL TYPES	54,043			54,043			
25	GRENADES, ALL TYPES	28,931			32,931			+ 4,000
26	SIGNALS, ALL TYPES	27,036			27,036			
	SIMULATORS, ALL TYPES	10,253			10,253			
	MISCELLANEOUS							
27	AMMO COMPONENTS, ALL TYPES	3,476			3,476			
29	ITEMS LESS THAN \$5 MILLION	10,569			10,569			
30	AMMUNITION PECULIAR EQUIPMENT	12,338			12,338			
31	FIRST DESTINATION TRANSPORTATION (AMMO)	15,908			15,908			
32	CLOSEOUT LIABILITIES	99			99			
	TOTAL, AMMUNITION	1,947,011			1,939,184			- 7,827
	AMMUNITION PRODUCTION BASE SUPPORT							
	PRODUCTION BASE SUPPORT							
33	PROVISION OF INDUSTRIAL FACILITIES	592,224			696,724			+ 104,500
34	CONVENTIONAL MUNITIONS DEMILITARIZATION, ALL	235,112			188,092			- 47,020
35	ARMS INITIATIVE	3,369			3,369			
	TOTAL, AMMUNITION PRODUCTION BASE SUPPORT	830,705			888,185			+ 57,480
	TOTAL, PROCUREMENT OF AMMUNITION, ARMY	2,777,716			2,827,369			+ 49,653

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
1	CTG, 5.56MM, All Types	68,472	65,659	- 2,813
	Restoring acquisition accountability: E95700 unit cost growth			- 2,813
5	CTG, .50 Cal, All Types	58,280	57,927	- 353
	Restoring acquisition accountability: E07302 unit cost growth			- 353
8	CTG, 30mm, All Types	58,172	57,876	- 296
	Restoring acquisition accountability: E10100 excess production engineering cost			- 296
12	120MM Mortar, All Types	107,762	117,762	+ 10,000
	Program increase: 120mm mortars, M929			+ 10,000
13	Cartridges, Tank, 105MM And 120MM, All Types	233,444	232,226	- 1,218
	Restoring acquisition accountability: E73201 excess cost growth			- 1,218
15	ARTILLERY PROJECTILE, 155MM, All Types	293,692	291,292	- 2,400
	Restoring acquisition accountability: E68510 excess production engineering			- 2,400
16	Proj 155mm Extended Range M982	69,159	54,412	- 14,747
	Maintain program affordability: E80103 unit cost savings			- 14,747
24	Grenades, All Types	28,931	32,931	+ 4,000
	Program increase: Grenades, M14 and M18			+ 4,000
33	Industrial Facilities	592,224	696,724	+ 104,500
	Program increase: Industrial Facilities Safety and Environmental Upgrades			+ 104,500
34	Conventional Munitions Demilitarization	235,112	188,092	- 47,020
	Improving funds management: Reduce carryover			- 47,020

Smoke Artillery.—The Committee recognizes the current need for the M825 155mm smoke artillery due to increased threats. Further, the Committee recognizes the specialized Joint Service production capability inherent to produce these systems. The Committee supports the fiscal year 2021 President’s budget request for production of M825 155mm smoke artillery to best support the National Defense Strategy.

Army Non-Lethal Conductive Electrical Weapon Upgrade.—The Committee is aware that the Army is currently working to upgrade its existing stocks of Conductive Electrical Weapons [CEWs], which are 5 years past their recommended end-of-life date. Functionality is critical at the moment personnel determine non-lethal force is warranted, but currently deployed taser CEWs have an unacceptably high risk of failing to operate when most needed, which could necessitate an escalation to lethal force. The Committee encourages the Army to proceed with its ongoing qualification efforts. However, the Committee is concerned by the lack of any published plan to immediately transition from qualification to procurement and deployment. This raises a concern that the Army will still be using outdated and unsupported CEW models even after qualification occurs. Therefore, the Committee directs the Assistant Secretary of the Army (Acquisition, Logistics and Technology) to submit a report to the congressional defense committees, not later than 60 days after enactment of this act, detailing a 5-year upgrade plan

for CEWs, including whether the Army has considered the possible benefits of a continuous support and upgrade plan.

Polymer Technology.—The Committee supports Department of the Army efforts to reduce the weight burden placed upon soldiers during training and combat operations. Recent advances in polymer technology show great promise in reducing the weight of traditional brass cased ammunition in a variety of calibers. Therefore, the Committee encourages the Army to pursue aggressively advances in polymer cased ammunition.

Munitions Pilot.—The Committee is aware of the Joint Munitions Command’s [JMC] purpose to provide the Army and Joint Forces with ready, reliable, and lethal munitions at the right place and time to sustain global operations. Further, the Committee recognizes that since 2002 JMC and the Army have taken significant steps to address critical readiness in the munitions readiness report. While significant challenges have been overcome, the Committee is aware that additional steps must be taken to ensure that the life cycle needs for ammunition are available to the warfighter. The Committee is also aware of the interagency report “Assessing and Strengthening the Manufacturing and Defense Industrial Base and Supply Chain Resiliency of the United States” recently published by the White House in fulfillment of Executive Order 13806. The report indicates the myriad challenges, especially to the organic industrial base, to securing the supply chain for a wide range of systems, including munitions. The report provides an opportunity for JMC to help support the Department of Defense enterprise and mitigate or fix issues addressed in the report. As such, the Committee encourages the Secretary of the Army to consider a pilot program at JMC for the sustainment of munitions as part of the overall life-cycle management of any given munitions program. A pilot program could be used to address the Department of Defense recommendations in the interagency report to help “diversify away from complete dependency on source of supply” as well as “modernize the organic industrial base.” A pilot program could demonstrate cost savings and operational efficiencies that could be gained by centralizing the sustainment of munitions. Further, a pilot program could be useful in developing an automated process to determine the critical levels of requirements and the required sources necessary to fulfill them.

OTHER PROCUREMENT, ARMY

Appropriations, 2020	\$7,581,524,000
Budget estimate, 2021	8,625,206,000
Committee recommendation	8,647,745,000

The Committee recommends an appropriation of \$8,647,745,000. This is \$22,539,000 above the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

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

[Dollars in thousands]

Line	Item	Qty.	2021 budget estimate	Qty.	Committee recommendation	Change from	
						Qty.	Budget estimate
	OTHER PROCUREMENT, ARMY						
	TACTICAL AND SUPPORT VEHICLES						
	TACTICAL VEHICLES						
1	TACTICAL TRAILERS/DOLLY SETS		12,986		6,493		-6,493
2	SEMITRAILERS, FLATBED		31,443		27,205		-4,238
3	SEMITRAILERS, TANKERS		17,082		17,082		
4	HIGH MOBILITY MULTI-PURPOSE WHEELED VEHICLE (HMMWV)		44,795		44,795		
5	GROUND MOBILITY VEHICLES (GMV)		37,932		29,247		-8,685
7	JOINT LIGHT TACTICAL VEHICLE		894,414		894,414		
9	TRUCK, DUMP, 20T (GCE)		29,368		29,368		
10	FAMILY OF MEDIUM TACTICAL VEH (FMTV)		95,092		181,092		+86,000
11	FAMILY OF COLD WEATHER ALL-TERRAIN VEHICLE (C)		999		9,249		+8,250
12	FIRETRUCKS & ASSOCIATED FIREFIGHTING EQUIPMENT		27,687		27,687		
14	PLS ESP		21,969		19,771		-2,198
15	HEAVY EXPANDED MOBILE TACTICAL TRUCK EXT SERV		65,635		65,619		-16
16	HMMWV RECAPITALIZATION PROGRAM		5,927		5,927		
17	TACTICAL WHEELED VEHICLE PROTECTION KITS		36,497		36,497		
18	MODIFICATION OF IN SVC EQUIP		114,977		114,977		
	NON-TACTICAL VEHICLES						
20	PASSENGER CARRYING VEHICLES		1,246		1,246		
21	NON-TACTICAL VEHICLES, OTHER		19,870				-19,870
	TOTAL, TACTICAL AND SUPPORT VEHICLES		1,457,919		1,510,669		+52,750
	COMMUNICATIONS AND ELECTRONICS EQUIPMENT						
	COMM—JOINT COMMUNICATIONS						
22	SIGNAL MODERNIZATION PROGRAM		160,469		160,469		
23	TACTICAL NETWORK TECHNOLOGY MOD IN SERVICE		360,379		360,379		
24	SITUATION INFORMATION TRANSPORT		63,396		63,396		
26	JCSF EQUIPMENT (USREDCOM)		5,170		5,170		
	COMM—SATELLITE COMMUNICATIONS						
29	DEFENSE ENTERPRISE WIDEBAND SATCOM SYSTEMS		101,498		101,498		

30	TRANSPORTABLE TACTICAL COMMAND COMMUNICATIONS	72,450	110,450	.....	.....	+ 38,000
31	SHF TERM	13,173	13,173	.....	.....	.....
32	ASSURED POSITIONING, NAVIGATION AND TIMING	134,928	128,387	.....	.....	-6,541
33	SMART-T (SPACE)	8,611	8,611	.....	.....	.....
34	GLOBAL BRODCST SVC—GBS	8,191	8,191	.....	.....	.....
	COMM—COMBAT SUPPORT COMM					
	COMM—C3 SYSTEM					
36	COE TACTICAL SERVER INFRASTRUCTURE (TSI)	94,871	92,119	.....	.....	-2,752
	COMM—COMBAT COMMUNICATIONS					
37	HANDHELD MANPACK SMALL FORM FIT (HMS)	550,848	540,448	.....	.....	-10,400
38	RADIO TERMINAL SET, MDS LVT(2)	8,237	8,237	.....	.....	.....
41	SPIDER FAMILY OF NETWORKED MUNITIONS INCREASE	13,967	.....	.....	.....	-13,967
43	UNIFIED COMMAND SUITE	19,579	19,579	.....	.....	.....
44	COTS COMMUNICATIONS EQUIPMENT	94,156	112,156	.....	.....	18,000
45	FAMILY OF MED COMM FOR COMBAT CASUALTY CARE	18,313	18,313	.....	.....	.....
46	ARMY COMMUNICATIONS & ELECTRONICS	51,480	38,613	.....	.....	-12,867
	COMM—INTELLIGENCE COMM					
48	CI AUTOMATION ARCHITECTURE [IMP]	13,146	13,146	.....	.....	.....
49	DEFENSE MILITARY DECEPTION INITIATIVE	5,624	5,624	.....	.....	.....
	INFORMATION SECURITY					
51	INFORMATION SYSTEM SECURITY PROGRAM—ISSP	4,596	4,596	.....	.....	.....
52	COMMUNICATIONS SECURITY (COMSEC)	159,272	159,272	.....	.....	.....
53	DEFENSIVE CYBER OPERATIONS	54,753	42,753	.....	.....	-12,000
54	INSIDER THREAT PROGRAM—UNIT ACTIVITY MONITOR	1,760	1,760	.....	.....	.....
56	ITEMS LES THAN \$5M (INFO SECURITY)	260	260	.....	.....	.....
	COMM—LONG HAUL COMMUNICATIONS					
57	BASE SUPPORT COMMUNICATIONS	29,761	29,761	.....	.....	.....
	COMM—BASE COMMUNICATIONS					
58	INFORMATION SYSTEMS	147,696	147,696	.....	.....	.....
59	EMERGENCY MANAGEMENT MODERNIZATION PROGRAM	4,900	.....	.....	.....	-4,900
60	HOME STATION MISSION COMMAND CENTERS (MSMCC)	15,227	15,227	.....	.....	.....
61	JOINT INFORMATION ENVIRONMENT (JIE)	3,177	3,177	.....	.....	.....
62	INSTALLATION INFO INFRASTRUCTURE MOD PROGRAM	300,035	269,720	.....	.....	-30,315
	ELECT EQUIP					
	ELECT EQUIP—TACT INT REL ACT [IARAI]					
65	JTT/CIBS-M [IMP]	5,304	5,304	.....	.....	.....

[Dollars in thousands]

Line	Item	Qty.	2021 budget estimate	Qty.	Committee recommendation	Change from	
						Qty.	Budget estimate
66	TERRESTRIAL LAYER SYSTEMS (TLS) [MIP]		8,081		8,081		
68	DCGS-A [MIP]		151,886		151,886		
70	TROJAN [MIP]		17,593		17,593		
71	MOD OF IN-SVC EQUIP (INTEL SFT) [MIP]		28,558		28,558		
73	BIOMETRIC TACTICAL COLLECTION DEVICES [MIP]		999		999		
75	ELECT EQUIP—ELECTRONIC WARFARE [EW]		5,332		5,332		
76	LIGHTWEIGHT COUNTER MORTAR RADAR		7,849		7,849		
77	EW PLANNING AND MANAGEMENT TOOLS		8,160		8,160		
79	AIR VIGILANCE (AV)		8,669		8,669		
82	MULTI-FUNCTION ELECTRONIC WARFARE (MFEW) SYST		300		300		
	CI MODERNIZATION [MIP]						
	ELECT EQUIP—TACTICAL SURV (TAC SURV)						
83	SENTINEL MODS		58,884		58,884		
84	NIGHT VISION DEVICES		1,127,375		1,102,749		-24,626
86	SMALL TACTICAL OPTICAL RIFLE MOUNTED MLRF		13,954		13,954		
88	INDIRECT FIRE PROTECTION FAMILY OF SYSTEMS		10,069		10,069		
89	FAMILY OF WEAPON SIGHTS (FWS)		133,590		86,389		-47,201
91	JOINT BATTLE COMMAND—PLATFORM [JBC-P]		243,850		243,850		
92	JOINT EFFECTS TARGETING SYSTEM (JETS)		69,641		69,641		
94	COMPUTER BALLISTICS: LHMCB XM32		7,509		7,509		
95	MORTAR FIRE CONTROL SYSTEM		3,800		3,800		
96	MORTAR FIRE CONTROL SYSTEM MODIFICATIONS		7,292		7,292		
97	COUNTERFIRE RADARS		72,421		71,404		-1,017
	ELECT EQUIP—TACTICAL C2 SYSTEMS						
98	ARMY COMMAND POST INTEGRATED INFRASTRUCTURE		49,947		49,947		
99	FIRE SUPPORT C2 FAMILY		9,390		9,390		
100	AIR & MSL DEFENSE PLANNING & CONTROL SYS (AMID)		47,374		47,374		
101	IAMD BATTLE COMMAND SYSTEM		201,587		201,587		
102	LIFE CYCLE SOFTWARE SUPPORT (LCSS)		4,495		4,495		
103	NETWORK MANAGEMENT INITIALIZATION AND SERVICE		18,651		18,651		
105	GLOBAL COMBAT SUPPORT SYSTEM—ARMY		2,792		2,792		
106	INTEGRATED PERSONNEL AND PAY SYSTEM—ARMY		9,071		9,071		
107	RECONNAISSANCE AND SURVEYING INSTRUMENT SET		12,117		12,117		

108	MOD OF IN-SERVICE EQUIPMENT (ENFIRE)		3,004		3,004			
	ELECT EQUIP—AUTOMATION							
	ARMY TRAINING MODERNIZATION		14,574		14,574			
110	AUTOMATED DATA PROCESSING EQUIPMENT		140,619		134,857			-5,762
111	GENERAL FUND ENTERPRISE BUSINESS SYSTEM		4,448		4,448			
112	HIGH PERF COMPUTING MOD PROGRAM		68,405		88,405			+ 20,000
113	CONTRACT WRITING SYSTEM		8,459		2,459			-6,000
114	CSS COMMUNICATIONS		57,651		57,651			
115	RESERVE COMPONENT AUTOMATION SYS [RCAS]		14,848		14,848			
	ELECT EQUIP—AUDIO VISUAL SYS (A/V)							
117	ITEMS LESS THAN \$5M (SURVEYING EQUIPMENT)		4,995		4,995			
	ELECT EQUIP—SUPPORT							
119	BCT EMERGING TECHNOLOGIES		16,983		16,983			
	TOTAL, COMMUNICATIONS AND ELECTRONICS EQUIPMENT		5,200,449		5,098,101			-102,348
	OTHER SUPPORT EQUIPMENT							
	CHEMICAL DEFENSIVE EQUIPMENT							
123	CBRN DEFENSE		28,456		28,456			
124	SMOKE & OBSCURANT FAMILY: SOF (NON AAO ITEM)		13,995		13,995			
	BRIDGING EQUIPMENT							
125	TACTICAL BRIDGING		10,545		10,545			
126	TACTICAL BRIDGE, FLOAT—RIBBON		72,074		72,074			
127	BRIDGE SUPPLEMENTAL SET		32,493		32,493			
128	COMMON BRIDGE TRANSPORTER RECAP		62,978		62,978			
	ENGINEER (NON—CONSTRUCTION) EQUIPMENT							
129	HANDHELD STANDOFF MINEFIELD DETECTION SYS—HST		5,570		5,570			
130	GROUND STANDOFF MINE DETECTION SYSTEM [GSTMIDS]		2,497		2,497			
132	HUSKY MOUNTED DETECTION SYSTEM (HMDS)		109,069		95,608			-13,461
134	EOD ROBOTICS SYSTEMS RECAPITALIZATION		36,584		36,584			
135	ROBOTICS AND APPLIQUE SYSTEMS		179,544		179,544			
137	RENDER SAFE SETS KITS OUTFITS		64,583		64,583			
139	FAMILY OF BOATS AND MOTORS		5,289		5,289			
	COMBAT SERVICE SUPPORT EQUIPMENT							
140	HEATERS AND ECUS		8,200		8,200			
142	PERSONNEL RECOVERY SUPPORT SYSTEM [PRSS]		4,625		4,625			
143	GROUND SOLDIER SYSTEM		154,937		102,562			-52,375

[Dollars in thousands]

Line	Item	Qty.	2021 budget estimate	Qty.	Committee recommendation	Change from	
						Qty.	Budget estimate
144	MOBILE SOLDIER POWER		34,297		34,297		
147	CARGO AERIAL DEL. & PERSONNEL PARACHUTE SYSTEM		53,021		53,021		
148	FAMILY OF ENGR. COMBAT AND CONSTRUCTION SETS		23,324		23,324		
149	ITEMS LESS THAN \$5M (ENG SPT)		8,014		8,014		
150	PETROLEUM EQUIPMENT						- 198
	DISTRIBUTION SYSTEMS, PETROLEUM & WATER		78,448		78,250		
151	MEDICAL EQUIPMENT						
	COMBAT SUPPORT MEDICAL		59,485		59,485		
152	MAINTENANCE EQUIPMENT						
	MOBILE MAINTENANCE EQUIPMENT SYSTEMS		40,337		160,337		+ 120,000
153	ITEMS LESS THAN \$50M (MAINT EQ)		5,386		5,386		
154	CONSTRUCTION EQUIPMENT						
	GRADER, ROAD MTZD, HVY, 6X4 (CCE)		5,406		5,406		
155	SCRAPERS, EARTHMOVING		4,188		4,188		
156	LOADERS		4,521		4,521		
157	HYDRAULIC EXCAVATOR		5,186		5,186		
158	TRACTOR, FULL TRACKED		4,715		4,715		
159	ALL TERRAIN CRANES		70,560		70,560		
162	CONST EQUIP ESP		8,925		8,925		
	RAIL FLOAT CONTAINERIZATION EQUIPMENT						
164	ARMY WATERCRAFT ESP		40,910		40,910		
165	MANEUVER SUPPORT VESSEL (MSV)		76,576		76,576		
166	ITEMS LESS THAN \$50M (FLOAT/RAIL)		1,844		1,844		
	GENERATORS						
167	GENERATORS AND ASSOCIATED EQUIPMENT		53,433		83,433		+ 30,000
168	TACTICAL ELECTRIC POWER RECAPITALIZATION		22,216		22,216		
169	MATERIAL HANDLING EQUIPMENT						
	FAMILY OF FORKLIFTS		16,145		16,110		- 35
	TRAINING EQUIPMENT						
170	COMBAT TRAINING CENTERS SUPPORT		90,580		90,580		

171	TRAINING DEVICES, NONSYSTEM		161,814		161,814	
172	SYNTHETIC TRAINING ENVIRONMENT (STE)		13,063		13,063	
175	GAMING TECHNOLOGY IN SUPPORT OF ARMY TRAINING		1,950		1,950	
	TEST MEASURE AND DIG EQUIPMENT (TMD)					
176	CALIBRATION SETS EQUIPMENT		2,511		2,511	
177	INTEGRATED FAMILY OF TEST EQUIPMENT [IFTE]		78,578		78,578	
178	TEST EQUIPMENT MODERNIZATION (TMOD)		14,941		14,941	
	OTHER SUPPORT EQUIPMENT					
180	RAPID EQUIPPING SOLDIER SUPPORT EQUIPMENT		8,629		8,629	
181	PHYSICAL SECURITY SYSTEMS (OPAS)		75,499		75,499	
182	BASE LEVEL COM'L EQUIPMENT		27,444		15,650	- 11,794
183	MODIFICATION OF IN-SVC EQUIPMENT (OPA-3)		32,485		32,485	
186	SPECIAL EQUIPMENT FOR USER TESTING		39,436		39,436	
	TOTAL, OTHER SUPPORT EQUIPMENT		1,955,306		2,027,443	+ 72,137
	SPARE AND REPAIR PARTS					
189	INITIAL SPARES—C&E		9,950		9,950	
	TOTAL, SPARE AND REPAIR PARTS		9,950		9,950	
999	CLASSIFIED PROGRAMS		1,582		1,582	
	TOTAL, OTHER PROCUREMENT, ARMY		8,625,206		8,647,745	+ 22,539

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
1	Tactical Trailers/Dolly Sets	12,986	6,493	- 6,493
	Restoring acquisition accountability: Insufficient acquisition strategy			- 6,493
2	Semitrailers, Flatbed:	31,443	27,205	- 4,238
	Improving funds management: 25-ton Low bed—Production verification testing early to need			- 4,238
5	Ground Mobility Vehicles (GMV)	37,932	29,247	- 8,685
	Transfer: Army-requested transfer to Research, Development, Test and Evaluation, Army line 126 for Infantry Squad Vehicle			- 2,289
	Maintain program affordability: Anticipated unit cost savings			- 6,396
10	Family of Medium Tactical Veh (FMTV)	95,092	181,092	+ 86,000
	Program increase: FMTV			+ 86,000
11	Family of Cold Weather All-Terrain Vehicle (C	999	9,249	+ 8,250
	Program increase: Arctic Overland Mobility			+ 8,250
14	PLS ESP	21,969	19,771	- 2,198
	Maintain program affordability: Anticipated unit cost savings			- 2,198
15	Hvy Expanded Mobile Tactical Truck Ext Serv	65,635	65,619	- 16
	Maintain program affordability: Unit cost growth M983A4			- 16
21	NonTactical Vehicles, Other	19,870		- 19,870
	Improving funds management: excess carryover			- 19,870
30	Transportable Tactical Command Communications	72,450	110,450	+ 38,000
	Program increase: Tactical network extension			+ 38,000
32	Assured Positioning, Navigation and Timing	134,928	128,387	- 6,541
	Improving funds management: Reduce carryover for mounted APNT			- 6,541
36	COE Tactical Server Infrastructure (TSI)	94,871	92,119	- 2,752
	Maintain program affordability: Contract management growth			- 2,752
37	Handheld Manpack Small Form Fit (HMS)	550,848	540,448	- 10,400
	Maintain program affordability: Excess system technical support growth			- 10,400
41	Spider Family of Networked Munitions Incr	13,967		- 13,967
	Restoring acquisition accountability: Program cancellation			- 13,967
44	COTS Communications Equipment	94,156	112,156	+ 18,000
	Program increase: Radio software license			+ 18,000
46	Army Communications & Electronics	51,480	38,613	- 12,867
	Restoring acquisition accountability: Unjustified growth			- 12,867
53	Defensive CYBER Operations	54,753	42,753	- 12,000
	Transfer: Army-requested transfer to Research, Development, Test & Evaluation, Army line 267 for program management			- 12,000
59	Emergency Management Modernization Program	4,900		- 4,900
	Improving funds management: Reduce carryover			- 4,900
62	Installation Info Infrastructure Mod Program	300,035	269,720	- 30,315
	Improving funds management: Reduce carryover for SWA and CONUS			- 30,315
84	Night Vision Devices	1,127,375	1,102,749	- 24,626
	Restoring acquisition accountability: ENVG-B contract delays			- 26,626
	Program increase: Night vision test system			+ 2,000
89	FAMILY OF WEAPON SIGHTS (FWS)	133,590	86,389	- 47,201
	Maintain program affordability: FWS-I unit cost growth			- 15,340

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
	Restoring acquisition accountability: FWS-CS early to need			- 31,861
97	Counterfire Radars	72,421	71,404	- 1,017
	Improving funds management: Reduce fielding carry-over			- 1,017
110	Automated Data Processing Equip	140,619	134,857	- 5,762
	Restoring acquisition accountability: Accessions Information Environment travel for training excess			- 1,778
	Restoring acquisition accountability: Accessions Information Environment licenses excess to need			- 3,984
112	High Perf Computing Mod Pgm (HPCMP)	68,405	88,405	+ 20,000
	Program increase: Virtual prototyping capability			+ 20,000
113	Contract Writing System	8,459	2,459	- 6,000
	Improving funds management: Reduce carryover			- 6,000
132	HUSKY MOUNTED DETECTION SYSTEM (HMDS)	109,069	95,608	- 13,461
	Maintain program affordability: Expected contract savings—wire detection kits hardware			- 12,334
	Maintain program affordability: Expected contract savings—ground penetrating radar initial spares ..			- 1,127
143	Ground Soldier System	154,937	102,562	- 52,375
	Maintain program affordability: NW soldier worn hardware unit cost growth			- 3,591
	Restoring acquisition accountability: Vehicle integration kits growth			- 6,019
	Restoring acquisition accountability: Network support equipment growth			- 23,395
	Restoring acquisition accountability: Battery and recharging equipment growth			- 19,370
150	Distribution Systems, Petroleum & Water	78,448	78,250	- 198
	Maintain program affordability: Tank rack module unit cost growth			- 198
152	Mobile Maintenance Equipment Systems	40,337	160,337	+ 120,000
	Program increase: Next Generation HMMWV Shop Equipment			+ 120,000
167	Generators And Associated Equip	53,433	83,433	+ 30,000
	Program increase: Advance medium mobile power source			+ 30,000
169	Family Of Forklifts	16,145	16,110	- 35
	Maintain program affordability: Unit cost growth			- 35
182	Base Level Common Equipment	27,444	15,650	- 11,794
	Maintain program affordability: Unjustified program growth			- 11,794

Arctic Overland Mobility.—The Committee encourages the Secretary of the Army to pursue equipment and vehicles necessary for Arctic and Cold Weather environments. As such, the Committee recommends \$8,250,000 above the fiscal year 2021 President's budget request for the Family of Cold Weather Vehicles to move more quickly than planned to procurement. In addition to funding, not later than 60 days after enactment of this act, the Assistant Secretary of the Army (Acquisition, Logistics and Technology) shall submit to the congressional defense committees a report on Arctic overland mobility capabilities. The report should include the following: a description and assessment of current capabilities, requirements, and operational challenges for cold weather tracked vehicles; an assessment of the current family of cold weather all-terrain vehicle program, together with a detailed justification of the current procurement timeline for that program; and an assessment of requirements for a joint program.

Integrated Visual Augmentation System.—The Committee supports the Army’s efforts to modernize the force and maintain squad level overmatch against peer competitors. Specifically, the Committee commends the Army on its iterative development approach to the Integrated Visual Augmentation System [IVAS] program, which includes a continual feedback cycle with industry and soldiers through both instrumented test and qualitative measurements. The Committee supports the fiscal year 2021 President’s budget request of \$906,045,000 for IVAS. This funding will enable the start of procurement in support of the Army’s plans to provide equipment to Close Combat Forces.

The Committee notes that the program is pursuing an aggressive fielding schedule to a large population of Close Combat Forces, resulting in a significant Low-Rate Initial Production procurement for an end-item that has not been operationally tested using production representative units, or its militarized form factor, as is planned for Soldier Touch Point Four. While the Committee appreciates the potential leap-ahead in capability that this weapon system offers, it is essential that an appropriate amount of operational testing, including use by soldiers in realistic combat conditions with production representative units, inform the Army’s decision to move to large-scale procurement. Therefore, the Committee directs the Program Executive Office Soldier, in coordination with the program manager for IVAS, to provide a briefing to the congressional defense committees, not later than 60 days after conclusion of Soldier Touch Point Four, to identify hardware and software design changes that will be incorporated into the final form factor prior to initiation of the first procurement lot.

Further, beginning with the fiscal year 2022 President’s budget request, the Committee directs the program manager for IVAS to provide the following information as cost elements within the P–40 Budget Line Item Justification, P–5 Cost Analysis, and P–5A Procurement History and Planning budget exhibits for IVAS: heads up display, puck, conformal wearable battery, IVAS radio, advance battery charger, and tactical cloud package. For each item, the program should provide quantity and unit cost along with contract award schedule and manufacturer information. The program budget briefings should include information about the size of the force that will receive the hardware and software requested in the budget year. The program manager is encouraged to provide any additional information—including additional cost elements—it believes will add clarity and specificity regarding overall procurement within the multi-billion dollar investment.

AIRCRAFT PROCUREMENT, NAVY

Appropriations, 2020	\$19,605,513,000
Budget estimate, 2021	17,127,378,000
Committee recommendation	18,795,890,000

The Committee recommends an appropriation of \$18,795,890,000. This is \$1,668,512,000 above the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

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

[Dollars in thousands]

Line	Item	Qty.	2021 budget estimate	Qty.	Committee recommendation	Change from	
						Qty.	Budget estimate
AIRCRAFT PROCUREMENT, NAVY							
COMBAT AIRCRAFT							
1	F/A-18E/F (FIGHTER) HORNET [MYP]	24	1,761,146	24	1,721,889	.....	- 39,257
3	JOINT STRIKE FIGHTER CV	21	2,181,780	26	2,697,397	.....	+ 515,617
4	JOINT STRIKE FIGHTER CV [AP-CY]	.....	330,386	.....	330,386	.....	.....
5	JSF STOVL	10	1,109,393	10	1,075,465	.....	- 33,928
6	JSF STOVL [AP-CY]	.....	303,035	.....	303,035	.....	.....
7	CH-53K (HEAVY LIFT)	7	813,324	7	884,314	.....	+ 70,990
8	CH-53K (HEAVY LIFT) [AP-CY]	.....	201,188	.....	201,188	.....	.....
9	V-22 (MEDIUM LIFT)	9	934,793	13	1,250,549	.....	+ 315,756
10	V-22 (MEDIUM LIFT) [AP-CY]	.....	39,547	.....	39,547	.....	.....
11	UH-1Y/AH-1Z	.....	7,267	.....	7,267	.....	.....
13	P-8A POSEIDON	.....	80,134	.....	1,646,534	.....	+ 1,566,400
15	E-2D ADV HAWKEYE	4	626,109	4	611,106	.....	- 15,003
16	E-2D ADV HAWKEYE [AP-CY]	.....	123,166	.....	123,166	.....	.....
	TOTAL, COMBAT AIRCRAFT	.....	8,511,268	.....	10,891,843	.....	+ 2,380,575
TRAINER AIRCRAFT							
17	ADVANCED HELICOPTER TRAINING SYSTEM	36	269,867	36	185,893	.....	- 83,974
TOTAL, TRAINER AIRCRAFT							
		.....	269,867	.....	185,893	.....	- 83,974
OTHER AIRCRAFT							
18	KC-130J	5	380,984	5	375,554	.....	- 5,430
19	KC-130J [AP-CY]	.....	67,022	.....	67,022	.....	.....
21	MQ-4 TRITON	.....	150,570	.....	100,966	.....	- 49,604
23	MQ-8 UAV	.....	40,375	.....	40,375	.....	.....
24	STUASLO UAV	.....	30,930	.....	30,065	.....	- 865
26	VH-92A EXECUTIVE HELO	5	610,231	5	589,042	.....	- 21,189
TOTAL, OTHER AIRCRAFT							
		.....	1,280,112	.....	1,203,024	.....	- 77,088
MODIFICATION OF AIRCRAFT							
28	F-18 A-D UNIQUE	.....	208,261	.....	195,710	.....	- 12,551

29	F-18E/F AND EA-18G MODERNIZATION AND SUSTAIN	468,954	425,904	—	43,050
30	AEA SYSTEMS	21,061	21,061	.....	.....
31	AV-8 SERIES	34,082	34,082	.....	.....
32	INFRARED SEARCH AND TRACK (IRST)	158,055	113,205	.....	44,850
33	ADVERSARY	42,946	34,240	.....	8,706
34	F-18 SERIES	379,351	379,351	.....	.....
35	H-53 SERIES	74,771	74,771	.....	.....
36	MH-60 SERIES	131,584	131,584	.....	.....
37	H-1 SERIES	185,140	116,340	.....	68,800
38	EP-3 SERIES	26,602	10,233	.....	16,369
40	E-2 SERIES	175,540	170,290	.....	5,250
41	TRAINER A/C SERIES	7,085	7,085	.....	.....
42	C-2A	9,525	8,453	.....	1,072
43	C-130 SERIES	141,705	121,628	.....	20,077
44	FEMSG	684	684	.....	.....
45	CARGO/TRANSPORT A/C SERIES	8,911	8,911	.....	.....
46	E-6 SERIES	197,206	197,206	.....	.....
47	EXECUTIVE HELICOPTERS SERIES	29,086	29,086	.....	.....
49	T-45 SERIES	155,745	154,600	.....	1,145
50	POWER PLANT CHANGES	24,633	24,633	.....	.....
51	JPATS SERIES	22,682	22,682	.....	.....
52	AVIATION LIFE SUPPORT MODS	40,401	45,401	.....	+5,000
53	COMMON ECM EQUIPMENT	138,480	134,370	.....	4,110
54	COMMON AVIONICS CHANGES	143,322	143,322	.....	.....
55	COMMON DEFENSIVE WEAPON SYSTEM	2,142	2,142	.....	.....
56	ID SYSTEMS	35,999	35,999	.....	.....
57	P-8 SERIES	180,530	74,711	.....	105,819
58	MAGTF EW FOR AVIATION	27,794	27,794	.....	.....
59	MQ-8 SERIES	28,774	28,774	.....	.....
60	V-22 (TILT/ROTOR AGFT) OSPREY	334,405	334,405	.....	.....
61	NEXT GENERATION JAMMER (NGJ)	176,638	176,638	.....	.....
62	F-35 STOVL SERIES	153,588	87,485	.....	66,103
63	F-35 CV SERIES	105,452	39,244	.....	66,208
64	QUICK REACTION CAPABILITY (QRC)	126,618	126,618	.....	.....
65	MQ-4 SERIES	12,998	6,613	.....	6,385
66	RQ-21 SERIES	18,550	7,794	.....	10,756
	TOTAL, MODIFICATION OF AIRCRAFT	4,029,300	3,553,049	.....	476,251
70	AIRCRAFT SPARES AND REPAIR PARTS	2,198,460	2,197,486	.....	974
	SPARES AND REPAIR PARTS	.....	.....	.....	.....

[Dollars in thousands]

Line	Item	Qty.	2021 budget estimate	Qty.	Committee recommendation	Change from	
						Qty.	Budget estimate
	AIRCRAFT SUPPORT EQUIPMENT AND FACILITIES						
71	COMMON GROUND EQUIPMENT		543,559		543,559		
72	AIRCRAFT INDUSTRIAL FACILITIES		75,685		75,685		
73	WAR CONSUMABLES		40,633		40,633		
74	OTHER PRODUCTION CHARGES		21,194				- 21,194
75	SPECIAL SUPPORT EQUIPMENT		155,179		102,597		- 52,582
76	FIRST DESTINATION TRANSPORTATION		2,121		2,121		
	TOTAL, AIRCRAFT SUPPORT EQUIPMENT & FACILITIES		838,371		764,595		- 73,776
	TOTAL, AIRCRAFT PROCUREMENT, NAVY		17,127,378		18,795,890		+ 1,668,512

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
1	F/A-18E/F (Fighter) Hornet	1,761,146	1,721,889	- 39,257
	Restoring acquisition accountability: Unjustified ECO growth			- 8,300
	Maintain program affordability: Unit cost adjustment			- 30,957
3	Joint Strike Fighter CV	2,181,780	2,697,397	+ 515,617
	Restoring acquisition accountability: Unit cost adjustment			- 9,883
	Program increase: Five aircraft			+ 525,500
5	JSF STOVL	1,109,393	1,075,465	- 33,928
	Restoring acquisition accountability: Unit cost adjustment			- 33,928
7	CH-53K (Heavy Lift)	813,324	884,314	+ 70,990
	Full funding of fiscal year 2021 aircraft			+ 89,590
	Restoring acquisition accountability: Pubs/tech data previously funded			- 18,600
9	V-22 (Medium Lift)	934,793	1,250,549	+ 315,756
	Maintain program affordability: CMV unit cost adjustment			- 24,244
	Program increase: Four aircraft			+ 340,000
13	P-8A Poseidon	80,134	1,646,534	+ 1,566,400
	Improving funds management: Line shutdown costs early to need			- 53,600
	Program increase: Nine aircraft			+ 1,620,000
15	E-2D Adv Hawkeye	626,109	611,106	- 15,003
	Restoring acquisition accountability: Unjustified growth—peculiar training equipment			- 15,003
17	Advanced Helicopter Training System	269,867	185,893	- 83,974
	Maintain program affordability: Contract savings Other ILS			- 83,974
18	KC-130J	380,984	375,554	- 5,430
	Maintain program affordability: Unit cost adjustment			- 5,430
21	MQ-4 Triton	150,570	100,966	- 49,604
	Restoring acquisition accountability: Production engineering support excess growth			- 5,993
	Restoring acquisition accountability: Other ILS excess growth			- 7,505
	Restoring acquisition accountability: Line preservation costs early to need			- 36,106
24	STUASLO UAV	30,930	30,065	- 865
	Maintain program affordability: USN air vehicle unit cost adjustment			- 865
26	VH-92A Executive Helo	610,231	589,042	- 21,189
	Maintain program affordability: ECO price adjustment			- 1,010
	Maintain program affordability: Unit cost adjustment			- 20,179
28	F-18 A-D Unique	208,261	195,710	- 12,551
	Maintain program affordability: USMC AESA radar excess unit cost growth (OSIP 21-00; ECP 583)			- 12,551
29	F-18E/F and EA-18G Modernization and Sustainment	468,954	425,904	- 43,050
	Restoring acquisition accountability: Early to need—next Gen Jammer—Mid Band kits (OSIP 011-10; ECP 6472)			- 8,227
	Maintain program affordability: Kit cost growth—weapons replaceable assemblies (OSIP 011-10; 6482)			- 13,921
	Maintain program affordability: Unjustified growth—other support (OSIP 011-10)			- 11,917
	Maintain program affordability: Unjustified growth—installation equipment (OSIP 011-10)			- 8,985
32	Infrared Search and Track (IRST)	158,055	113,205	- 44,850

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
	Restoring acquisition accountability: Reduce concurrency IRST pods (OSIP 04-14)			- 44,850
33	Adversary	42,946	34,240	- 8,706
	Restoring acquisition accountability: F-16 SLEP ahead of need			- 8,706
37	H-1 Series	185,140	116,340	- 68,800
	Maintain program affordability: Unjustified growth—program OSIPs			- 68,800
38	EP-3 Series	26,602	10,233	- 16,369
	Maintain program affordability: Unjustified growth—JCC obsolescence (OSIP 11-01)			- 16,369
40	E-2 Series	175,540	170,290	- 5,250
	Restoring acquisition accountability: Unjustified—SIPR chat conversion (OSIP 003-18)			- 5,250
42	C-2A	9,525	8,453	- 1,072
	Restoring acquisition accountability: Navy identified SIPR chat no longer valid (OSIP 011-07)			- 1,072
43	C-130 Series	141,705	121,628	- 20,077
	Maintain program affordability: Unjustified growth—LAIRCM A kit installation (OSIP 020-12)			- 2,530
	Maintain program affordability: Unjustified growth—block 7.1/8.0 GFE (OSIP 019-14)			- 11,127
	Maintain program affordability: Unjustified growth—training equipment block upgrade (OSIP 019-14) ..			- 6,420
49	T-45 Series	155,745	154,600	- 1,145
	Maintain program affordability: Transponder organic contract actual savings (OSIP 006-16)			- 1,145
52	Aviation Life Support Mods	40,401	45,401	+ 5,000
	Program increase: Body armor vest			+ 5,000
53	Common ECM Equipment	138,480	134,370	- 4,110
	Maintain program affordability: MV-22 kit cost growth (OSIP 014-90)			- 2,019
	Maintain program affordability: H-1 kit cost growth (OSIP 014-90)			- 2,091
57	P-8 Series	180,530	74,711	- 105,819
	Restoring acquisition accountability: ECP 6 kits—early to need (OSIP 006-18)			- 105,819
62	F-35 STOVL Series	153,588	87,485	- 66,103
	Improving funds management: Reduce carryover (OSIP 012-20: Block 4 upgrade)			- 3,010
	Insufficient budget justification: Correction of deficiencies (OSIP: 004-19)			- 63,093
63	F-35 CV Series	105,452	39,244	- 66,208
	Improving funds management: Reduce carryover (OSIP 011-20: Block 4 upgrade)			- 2,200
	Insufficient budget justification: Correction of deficiencies (OSIP: 001-21)			- 64,008
65	MQ-4 Series	12,998	6,613	- 6,385
	Restoring acquisition accountability: Ground station kit early to need (OSIP 009-18)			- 6,385
66	RQ-21 Series	18,550	7,794	- 10,756
	Improving funds management: Excess unobligated funds			- 9,275
	Maintain program affordability: Unjustified growth—SURFR payload (OSIP 004-20)			- 1,481
70	Spares and Repair Parts	2,198,460	2,197,486	- 974
	Maintain program affordability: Excess to need			- 167,974
	Program increase: F/A-18 E/F engine spares			+ 137,000
	Program increase: F-35B/C initial spares			+ 30,000
74	Other Production Charges	21,194		- 21,194
	Restoring acquisition accountability: TCTS procurement funds early to need			- 21,194
75	Special Support Equipment	155,178	102,596	- 52,582

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
	Classified adjustment .....	.....	.....	-52,582

F/A-18E/F Super Hornet.—The Committee has been encouraged over the last several years with the Navy’s focus on its tactical aviation fleet and supports the budget request for 24 additional F/A-18E/F Block III Super Hornets. The Navy has made deliberate and thoughtful investments in recent years and has significantly reduced its strike fighter shortfall and increased readiness across the fleet. The Committee was pleased that after several years of relying on congressional increases to fill the Navy’s fighter shortfall, it entered into a multiyear procurement for new aircraft in fiscal year 2019.

The Future Years Defense Program [FYDP] submitted with the fiscal year 2021 President’s budget request shows no F/A-18E/F procurement beyond fiscal year 2021. Compared to last year’s FYDP, this represents a reduction of 3 years of production (2022 through 2024), eliminating 36 previously planned new aircraft. While the Navy’s investment in a Service Life Modification [SLM] program will extend the service life of fleet aircraft, it is unclear whether this will provide the tactical air capability and capacity that is lost with the reduction of 36 aircraft.

The Committee would like to understand the impact of eliminating new Super Hornets on SLM cost and/or effectiveness and the long-term cost of sustaining an increasingly aging fleet. The Committee directs the Secretary of the Navy to provide a briefing to the congressional defense committees not later than 30 days after the enactment of this act that provides an update on the Navy’s strike fighter shortfall projected over the next 20 years, the impact of the 36-aircraft reduction on this shortfall, and an updated schedule of inductions and deliveries of aircraft in the SLM program.

Joint Strike Fighter Service Life.—The fiscal year 2021 President’s budget request includes \$259,040,000 for F-35B and F-35C modifications. This is an increase of \$178,097,000 over fiscal year 2020. The majority of this program increase is to support the structural life limited parts [SLLP] program, which has a Future Years Defense Program estimate of \$1,447,588,000. The Committee notes this increase was not projected in the fiscal year 2020 President’s budget request, when the FYDP projection was \$283,881,000, which is \$1,163,707,000 less than what is reflected in 2021.

The Committee understands SLLP will be a significant effort going forward. The Committee notes the increasing maturity of the F-35 program and appreciates the attention of the Joint Program Office on the long-term sustainment costs of all variants of the aircraft. With the significant investment that has been made and will continue to be made into the future, it is imperative that the service life of the aircraft be adequately understood and any programmatic efforts to extend the service life be fully detailed to the congressional defense committees.

The Committee is concerned by the lack of detail about the SLLP program in the P-40, budget line item justification, and the P-3a,

individual modification, exhibits, and the supporting budget briefing materials. The Committee expects budget materials to contain more detail going forward, to include visibility into A kits, B kits, installations, and support costs for SLLP-related engineering change proposals.

Further, the Committee directs the Assistant Secretary of the Navy (Research, Development and Acquisition) in concert with the Program Executive Officer, F-35 Joint Program Office, not later than 30 days after enactment of this act, to provide a briefing to the Committee on the service life extension efforts. The briefing should include—by variant—costs to date, the planned total investment in the effort, service life of aircraft after investment is complete, and the schedule for the effort. The briefing should also include information about any cost-sharing between the Department of Defense and the manufacturer.

Nuclear Command and Control.—The Committee is aware of the requirement for the replacement of the current E-6B TACAMO aircraft. The E-6B plays a critical role in the nuclear command, control and communication architecture for the United States strategic deterrence, particularly for our submarine force. The E-6B aircraft is based on the Boeing 707 airframe, and like many other aging aircraft, needs a replacement to ensure the critical communications link with our strategic nuclear forces is not diminished. The Committee is aware that the Navy and Air Force are working together to explore options for the replacement of the E-6B TACAMO. The Committee appreciates the joint efforts to holistically review the need to replacement aircraft that support the nuclear command, control and communication mission. The Committee urges the Navy to ensure that this mission continues and that a suitable aircraft design is utilized. Further, the Committee encourages the Navy to consider facilities and ground communication system upgrades that may be needed to support the follow-on TACAMO aircraft. The Committee urges the Navy to utilize existing facilities and expertise to reduce the overall cost of the program.

WEAPONS PROCUREMENT, NAVY

Appropriations, 2020	\$4,017,470,000
Budget estimate, 2021	4,884,995,000
Committee recommendation	4,626,495,000

The Committee recommends an appropriation of \$4,626,495,000. This is \$258,500,000 below the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

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

[Dollars in thousands]

Line	Item	Qty.	2021 budget estimate	Qty.	Committee recommendation	Change from	
						Qty.	Budget estimate
WEAPONS PROCUREMENT, NAVY							
BALLISTIC MISSILES							
MODIFICATION OF MISSILES							
1	TRIDENT II MODS		1,173,837		1,173,837		
SUPPORT EQUIPMENT AND FACILITIES							
2	MISSILE INDUSTRIAL FACILITIES		7,275		7,275		
TOTAL, BALLISTIC MISSILES							
			1,181,112		1,181,112		
OTHER MISSILES							
STRATEGIC MISSILES							
3	TOMAHAWK	155	277,694	90	195,494	-65	-82,200
TACTICAL MISSILES							
4	AMRAAM	325	326,952	325	326,952		
5	SIDEWINDER	270	126,485	270	126,485		
7	STANDARD MISSILE	125	456,206	125	406,206		-50,000
8	STANDARD MISSILE [AP-CY]		66,716		66,716		
9	SMALL DIAMETER BOMB II	357	78,867	357	74,267		-4,600
10	RAM	100	90,533	100	90,533		
11	JOINT AIR GROUND MISSILE [JAGM]	203	49,386	203	49,386		
14	AERIAL TARGETS		174,336		170,636		-3,700
15	DRONES AND DECOYS	68	41,256	68	19,956		-21,300
16	OTHER MISSILE SUPPORT		3,501		3,501		
17	LRASM	48	168,845	48	168,845		
18	LCS OTH MISSILE	15	32,910	15	31,610		-1,300
MODIFICATION OF MISSILES							
TOMAHAWK MODS							
19	TOMAHAWK MODS		164,915		124,015		-40,900
20	ESSM	120	215,375	120	215,375		
22	HARM MODS	24	147,572	16	86,072	-8	-61,500
23	STANDARD MISSILES MODS		83,654		74,654		-9,000

[Dollars in thousands]

Line	Item	Qty.	2021 budget estimate	Qty.	Committee recommendation	Change from	
						Qty.	Budget estimate
24	SUPPORT EQUIPMENT AND FACILITIES		1,996		13,996		+ 12,000
25	WEAPONS INDUSTRIAL FACILITIES		53,401		53,401		
	FLEET SATELLITE COMM FOLLOW-ON						
	ORDNANCE SUPPORT EQUIPMENT		215,659		215,659		
27	ORDNANCE SUPPORT EQUIPMENT						
	TOTAL, OTHER MISSILES		2,776,259		2,513,759		- 262,500
	TORPEDOES AND RELATED EQUIPMENT						
	TORPEDOES AND RELATED EQUIP						
28	SSTD		5,811		5,811		
29	MK-48 TORPEDO	110	284,901	110	284,901		
30	ASW TARGETS		13,833		13,833		
	MOD OF TORPEDOES AND RELATED EQUIP						
31	MK-54 TORPEDO MODS		110,286		110,286		
32	MK-48 TORPEDO ADCAP MODS		57,214		57,214		
33	MARTIME MINES		5,832		5,832		
	SUPPORT EQUIPMENT						
34	TORPEDO SUPPORT EQUIPMENT		97,581		97,581		
35	ASW RANGE SUPPORT		4,159		4,159		
	DESTINATION TRANSPORTATION						
36	FIRST DESTINATION TRANSPORTATION		4,106		4,106		
	TOTAL, TORPEDOES AND RELATED EQUIPMENT		583,723		583,723		
	OTHER WEAPONS						
	GUNS AND GUN MOUNTS						
37	SMALL ARMS AND WEAPONS		16,030		16,030		
	MODIFICATION OF GUNS AND GUN MOUNTS						
38	CWS MODS		37,147		41,147		+ 4,000
39	COAST GUARD WEAPONS		45,804		45,804		
40	GUN MOUNT MODS		74,427		74,427		

41	LCS MODULE WEAPONS	32	4,253	32	4,253	.....
42	AIRBORNE MINE NEUTRALIZATION SYSTEMS		6,662		6,662	.....
	TOTAL, OTHER WEAPONS		184,323		188,323	+ 4,000
45	SPARES AND REPAIR PARTS		159,578		159,578	.....
	TOTAL, WEAPONS PROCUREMENT, NAVY		4,884,995		4,626,495	- 258,500

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
3	Tomahawk	277,694	195,494	- 82,200
	Maintain program affordability: Maintain production level of effort			- 79,000
	Restoring acquisition accountability: Mk14 Canister unit cost growth			- 3,200
7	Standard Missile	456,206	406,206	- 50,000
	Maintain program affordability: Transition to production request unjustified			- 50,000
9	Small Diameter Bomb II	78,867	74,267	- 4,600
	Restoring acquisition accountability: AUR u/c growth			- 4,600
14	Aerial Targets	174,336	170,636	- 3,700
	Restoring acquisition accountability: BQM-177A FRP u/c growth			- 3,700
15	Drones And Decoys	41,256	19,956	- 21,300
	Restoring acquisition accountability: MALD concurrency			- 21,300
18	LCS OTH Missile	32,910	31,610	- 1,300
	Insufficient budget justification: Support costs unjustified			- 1,300
19	Tomahawk Mods	164,915	124,015	- 40,900
	Restoring acquisition accountability: MST production concurrency			- 40,900
22	Harm Mods	147,572	86,072	- 61,500
	Restoring acquisition accountability: AARGM-ER LRIP early to need			- 61,500
23	Standard Missiles Mods	83,654	74,654	- 9,000
	Restoring acquisition accountability: SM-2 BLK HIAZ Modification unit cost growth			- 4,900
	Maintain program affordability: Unjustified DMS request			- 4,100
24	Weapons Industrial Facilities	1,996	13,996	+ 12,000
	Program increase: NIROP facilitization			+ 12,000
38	CIWS Mods	37,147	41,147	+ 4,000
	Program increase: Phalanx SeaRAM Weapons Computer Control (WCC) upgrade			+ 4,000

PROCUREMENT OF AMMUNITION, NAVY AND MARINE CORPS

Appropriations, 2020	\$843,401,000
Budget estimate, 2021	883,602,000
Committee recommendation	819,809,000

The Committee recommends an appropriation of \$819,809,000. This is \$63,793,000 below the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

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

[Dollars in thousands]

Line	Item	Qty.	2021 budget estimate	Qty.	Committee recommendation	Change from	
						Qty.	Budget estimate
	PROC AMMO, NAVY						
	NAVY AMMUNITION						
	GENERAL PURPOSE BOMBS	2,865	41,496		39,017		-2,479
1	JDM		64,631		64,631		
2	AIRBORNE ROCKETS, ALL TYPES		60,719		60,719		
3	MACHINE GUN AMMUNITION		11,158		11,158		
4	PRACTICE BOMBS		51,409		41,218		-10,191
5	CARTRIDGES & CART ACTUATED DEVICES		64,694		64,694		
6	AIR EXPENDABLE COUNTERMEASURES		51,523		51,523		
7	JATOS		6,761		6,761		
8	5 INCH/54 GUN AMMUNITION		31,517		28,670		-2,847
9	INTERMEDIATE CALIBER GUN AMMUNITION		38,005		30,432		-7,573
10	OTHER SHIP GUN AMMUNITION		40,626		40,626		
11	SMALL ARMS & LANDING PARTY AMMO		48,202		48,202		
12	PYROTECHNIC AND DEMOLITION		9,766		9,766		
13	AMMUNITION LESS THAN \$5 MILLION		2,115		2,115		
14	TOTAL, PROC AMMO, NAVY		522,622		499,532		-23,090
	PROC AMMO, MARINE CORPS						
	MARINE CORPS AMMUNITION						
	MORTARS		46,781		45,761		-1,020
16	DIRECT SUPPORT MUNITIONS		119,504		79,662		-39,842
17	INFANTRY WEAPONS AMMUNITION		83,220		73,379		-9,841
18	COMBAT SUPPORT MUNITIONS		32,650		32,650		
19	AMMO MODERNIZATION		15,144		15,144		
20	ARTILLERY MUNITIONS		59,539		69,539		+10,000
21	ITEMS LESS THAN \$5 MILLION		4,142		4,142		
22	TOTAL, PROC AMMO, MARINE CORPS		360,980		320,277		-40,703

[Dollars in thousands]

Line	Item	Qty.	2021 budget estimate	Qty.	Committee recommendation	Change from	
						Qty.	Budget estimate
	TOTAL, PROCUREMENT OF AMMO, NAVY & MARINE CORPS		883,602		819,809		— 63,793

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
1	General Purpose Bombs	41,496	39,017	- 2,479
	Restoring acquisition accountability: Q2919 previously funded			- 2,479
5	Practice Bombs	51,409	41,218	- 10,191
	Restoring acquisition accountability: Q1300 expected contract savings			- 2,141
	Restoring acquisition accountability: Q1040 contract delay			- 3,988
	Restoring acquisition accountability: Q1050 acquisition uncertainty			- 4,062
9	5 Inch/54 Gun Ammunition	31,517	28,670	- 2,847
	Restoring acquisition accountability: DA53 unit cost adjustment			- 2,847
10	Intermediate Caliber Gun Ammunition	38,005	30,432	- 7,573
	Restoring acquisition accountability: BA23 contract delay			- 7,573
16	Mortars	46,781	45,761	- 1,020
	Restoring acquisition accountability: CA66 fuze unit cost growth			- 1,020
17	Direct Support Munitions	119,504	79,662	- 39,842
	Restore acquisition accountability: USMC-identified asset—force redesign			- 39,842
18	Infantry Weapons Ammunition	83,220	73,379	- 9,841
	Restoring acquisition accountability: A940 LAP contract price savings			- 79
	Restoring acquisition accountability: AB57 LAP unit cost growth			- 1,149
	Restoring acquisition accountability: A059 unit cost growth			- 8,613
21	Artillery Munitions	59,539	69,539	+ 10,000
	Program increase: Artillery, 155mm M825			+ 10,000

SHIPBUILDING AND CONVERSION, NAVY

Appropriations, 2020	\$23,975,378,000
Budget estimate, 2021	19,902,757,000
Committee recommendation	21,346,405,000

The Committee recommends an appropriation of \$21,346,405,000. This is \$1,443,648,000 above the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

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

[Dollars in thousands]

Line	Item	Qty.	2021 budget estimate	Qty.	Committee recommendation	Change from	
						Qty.	Budget estimate
SHIPBUILDING & CONVERSION, NAVY							
FLEET BALLISTIC MISSILE SHIPS							
1	COLUMBIA CLASS SUBMARINE	1	2,891,475	1	2,891,475		
2	COLUMBIA CLASS SUBMARINE [AP-CY]		1,123,175		1,253,175		+130,000
OTHER WARSHIPS							
3	CARRIER REPLACEMENT PROGRAM (CVN 80)		997,544		997,544		
4	CARRIER REPLACEMENT PROGRAM (CVN 81)		1,645,606		1,645,606		
5	VIRGINIA CLASS SUBMARINE	1	1,862,693	1	2,334,693		+472,000
6	VIRGINIA CLASS SUBMARINE [AP-CY]		2,373,187		2,373,187		
7	CVN REFUELING OVERHAUL		1,878,453		1,531,153		-347,300
8	CVN REFUELING OVERHAULS [AP-CY]		17,384		17,384		
9	DDG 1000		78,205		78,205		
10	DDG-51	2	3,040,270	2	3,255,270		+215,000
11	DDG-51 [AP-CY]		29,297		159,297		+130,000
13	FFG-FRIGATE	1	1,053,123	1	1,053,123		
TOTAL, OTHER WARSHIPS							
			12,975,762		13,445,462		+469,700
AMPHIBIOUS SHIPS							
14	LPD FLIGHT II	1	1,155,801	1	1,125,801		-30,000
15	LPD 32 (AP)				1,000		+1,000
15A	LPD 33 (AP)				1,000		+1,000
16A	EXPEDITIONARY SEA BASE (ESB) [AP-CY]				73,000		+73,000
17	LHA REPLACEMENT				500,000		+500,000
19	EXPEDITIONARY FAST TRANSPORT			1	260,000		+260,000
TOTAL, AMPHIBIOUS SHIPS							
			1,155,801		1,960,801		+805,000
AUXILIARIES, CRAFT, AND PRIOR-YEAR PROGRAM COSTS							
22	TOWING, SALVAGE, AND RESCUE SHIP (ATS)	2	168,209	2	168,209		
23	LCU 1700	5	87,395	5	87,395		
24	OUTFITTING		825,586		766,334		-59,252
26	SERVICE CRAFT		249,781		249,781		
27	LOGC SLEP	3	56,461	3	56,461		

28	COMPLETION OF PY SHIPBUILDING PROGRAMS	369,112	.....	407,312	.....	+ 38,200
XXX	AUXILIARY VESSELS .....	.....	.....	60,000	.....	+ 60,000
	TOTAL, AUXILIARIES, CRAFT, AND PRIOR-YEAR PROGRAM	1,756,544	.....	1,795,492	.....	+ 38,948
	TOTAL, SHIPBUILDING & CONVERSION, NAVY	19,902,757	.....	21,346,405	.....	+ 1,443,648

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
2	OHIO Replacement Submarine [AP-CY]	1,123,175	1,253,175	+ 130,000
	SSBN 827 AP (FF FY24-25)	[1,015,652]	[1,015,652]	.....
	SSBN 828 AP (FF FY26)	[93,034]	[93,034]	.....
	SSBN 829 AP (FF FY27)	[140]	[140]	.....
	SSBN 830 AP (FF FY28)	[1,070]	[1,070]	.....
	SSBN 831 AP (FF FY29)	[140]	[140]	.....
	SSBN 832 AP (FF FY30)	[140]	[140]	.....
	SSBN 833 AP (FF FY31)	[140]	[140]	.....
	SSBN 834 AP (FF FY32)	[140]	[140]	.....
	SSBN 835 AP (FF FY33)	[140]	[140]	.....
	SSBN 836 AP (FF FY34)	[140]	[140]	.....
	SSBN 837 AP (FF FY35)	[12,439]	[12,439]	.....
	Program increase: Submarine industrial base expansion .....	.....	.....	+ 130,000
5	Virginia Class Submarine	1,862,693	2,334,693	+ 472,000
	Improving funds management: Navy requested transfer from line 6 for justification material error .....	.....	.....	+ 472,000
6	Virginia Class Submarine [AP-CY]	2,373,187	2,373,187	.....
	SSN 807 AP (FF FY22)	[416,546]	[416,546]	.....
	SSN 808 AP (FF FY22)	[416,546]	[416,546]	.....
	SSN 809 AP (FF FY23)	[878,501]	[878,501]	.....
	SSN 810 AP (FF FY23)	[189,596]	[189,596]	.....
	Improving funds management: Navy requested transfer to line 5 for justification material error .....	.....	.....	- 472,000
	Program increase: Advance procurement for additional Virginia Class Submarine .....	.....	.....	+ 472,000
7	CVN Refueling Overhauls	1,878,453	1,531,153	- 347,300
	Improving funds management: CVN 74 RCOH prior year carryover .....	.....	.....	- 226,300
	Improving funds management: Additional CVN 74 RCOH prior year carryover .....	.....	.....	- 121,000
8	CVN Refueling Overhauls [AP-CY]	17,384	17,384	.....
	CVN 75 AP (FF in FY25-26)	[17,384]	[17,384]	.....
10	DDG-51	3,040,270	3,255,270	+ 215,000
	Program increase: Surface combatant shipyard infrastructure .....	.....	.....	+ 215,000
11	DDG-51 [AP-CY]	29,297	159,297	+ 130,000
	DDG 138 AP (FF FY22)	[14,649]	[14,649]	.....
	DDG 139 AP (FF FY22)	[14,648]	[14,648]	.....
	Program increase: Long lead time material only for 3rd DDG-51 in fiscal year 2022 .....	.....	.....	+ 130,000
14	LPD Flight II	1,155,801	1,125,801	- 30,000
	Improving funds management: LPD 31 contract award savings .....	.....	.....	- 28,000
	Restoring acquisition accountability: Transfer to line 15 only for LPD 32 EOQ .....	.....	.....	- 1,000
	Restoring acquisition accountability: Transfer to line 15A only for LPD 33 EOQ .....	.....	.....	- 1,000
15	LPD 32 [AP-CY] .....	.....	1,000	+ 1,000
	Restoring acquisition accountability: Transfer from line 14 only for LPD 32 EOQ .....	.....	.....	+ 1,000
15A	LPD-33 [AP-CY] .....	.....	1,000	+ 1,000
	Restoring acquisition accountability: Transfer from line 14 only for LPD 33 EOQ .....	.....	.....	+ 1,000
16A	Expeditionary Sea Base (ESB) [AP-CY] .....	.....	73,000	+ 73,000
	Program increase: Advance procurement for ESB-8 .....	.....	.....	+ 73,000
17	LHA Replacement .....	.....	500,000	+ 500,000
	Program increase: LHA 9 .....	.....	.....	+ 500,000
19	Expeditionary Fast Transport (EPF) .....	.....	260,000	+ 260,000

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
	Program increase: One additional ship			+ 260,000
24	Outfitting	825,586	766,334	– 59,252
	Improving funds management: CVN 79 outfitting			– 37,847
	Improving funds management: SSN 801 outfitting			– 12,005
	Improving funds management: LHA 8 outfitting			– 9,400
28	Completion of PY Shipbuilding Programs	369,112	407,312	+ 38,200
	CVN 73 RCOH scope expansion			– 11,800
	Program increase: EPF unmanned logistics prototype conversion			+ 50,000
XX	Auxiliary Vessels		60,000	+ 60,000
	Transfer: Two used sealift vessels for National Defense Reserve Fleet from OMN, line 2A2F			+ 60,000

Budget Justification Materials for Shipbuilding Programs.—Federal Appropriations Law requires that the entire procurement cost of a weapon be funded in the fiscal year in which the item is procured (“full funding policy”). However, Congress has provided legislative exceptions to the full funding policy for several shipbuilding programs that are funded with fiscal year 2021 appropriations, including SSBNs 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836 and 837; USS Enterprise (CVN 80) and USS Doris Miller (CVN 81); aircraft carrier refueling and complex overhauls of USS George Washington (CVN 73), USS John C. Stennis (CVN 74) and USS Harry S. Truman (CVN 75); LPDs 31, 32, 33; and LHA 9. The Committee notes that the legislative authorities for exceptions to the full funding policy and appropriations for these programs were provided at the request of the Navy with the understanding that these exceptions would improve the Navy’s purchasing power and improve maritime capacity and capability, and that subsequent budget submissions would fully reflect these acquisition and funding strategies.

The Committee notes, however, that the Navy’s budget justification materials for incrementally funded shipbuilding programs have not been updated to reflect exceptions to the full funding policy, and that the current P–5c, “Ship Cost Activity”, P–8a, “Analysis of Ship Cost Estimates”, and P–35, “Major Ship Component Fact Sheet”, budget exhibits do not clearly explain or justify funds identified on the P–40, “Budget Line Item Justification”, budget exhibit for the pending budget request. The Committee further notes that the Navy’s detailed budget justification briefs also do not routinely contain such information, nor is additional amplifying information provided at the time of the budget submission, despite previous congressional direction to do so. The Committee does not believe that future Navy budget requests can be supported absent improved budget justification materials for incrementally funded shipbuilding programs and directs the Assistant Secretary of Navy (Financial Management and Comptroller), in consultation with the Assistant Secretary of the Navy (Research, Development and Acquisition), to provide to the congressional defense committees, not later than 30 days after enactment of this act, templates for improved Navy shipbuilding budget justification materials and budget justification briefs for Navy shipbuilding programs.

COLUMBIA Class Submarines.—The fiscal year 2021 President’s budget request includes \$4,014,650,000 in Shipbuilding and Conversion, Navy, for the incrementally funded procurement of the first *COLUMBIA* Class submarine [CLB] and for advance procurement [AP] of eleven additional hulls of the *COLUMBIA* Class. The Committee notes that unprecedented acquisition and funding flexibilities have been provided by the Congress for the acquisition of the CLB, including authority to enter into economic order quantity contracts in fiscal year 2016, authority to award contracts for advance construction in fiscal year 2016, authority to award contracts for continuous production in fiscal year 2017, the expansion of such continuous production authority in fiscal year 2018, incremental funding authority for advance procurement in fiscal year 2016, authority for incremental full funding of the first two CLB hulls in fiscal year 2021, as well as sizeable additional appropriations to support the submarine industrial base for both *COLUMBIA* and *VIRGINIA* Class submarines. Additionally, in fiscal year 2021, the Navy requested 3-year AP appropriations of nuclear propulsion equipment components for the second CLB, which the Committee believes is an unprecedented use of AP, but does not object to in this instance. However, the Committee is displeased with the way this request was presented to the Congress and is concerned about the potential future such use of AP. Therefore, the Assistant Secretary of the Navy (Research, Development and Acquisition), in consultation with the Assistant Secretary of the Navy (Financial Manager and Comptroller) is directed to submit to the congressional defense committees, with submission of the President’s fiscal year 2022 budget request, a certification of the need for any 3-year AP requested in fiscal year 2022, as well as to provide a detailed execution update by component of 3-year AP appropriated in fiscal year 2021, to include any deviations from information previously provided to the congressional defense committees in support of the Navy’s 3-year AP request for nuclear propulsion equipment in fiscal year 2021.

The Committee notes that despite the significant legislative support provided by the Congress for the CLB, challenges have occurred in certain design, prototyping, and advance construction efforts of the program. In particular, ongoing missile tube issues have consumed the majority of the common missile compartment schedule margin, thereby causing additional risk to the ship construction schedule. Further, the Committee notes that despite Navy leadership’s repeated statements that the CLB is the Navy’s top acquisition priority, the Navy’s budgets and acquisition plans do not reflect that prioritization. For instance, the fiscal year 2021 budget request for the *COLUMBIA* Class includes \$16,400,000 for the submarine industrial base, a decrease of \$129,000,000 from amounts appropriated for fiscal year 2020 despite repeated statements by Navy leadership that the supplier industrial base presents the most significant risk to the program. Further, the Navy continues to inject risk into the CLB program by destabilizing the *VIRGINIA* Class submarine program, as addressed elsewhere in this explanatory statement. The Committee recommends an additional \$130,000,000 to support the submarine industrial base, and believes that further erosion of performance of the CLB program

would warrant a review of the Department of Defense and Navy acquisition enterprise as it relates to submarines.

VIRGINIA Class Submarines.—The fiscal year 2021 President’s budget request includes \$4,235,880,000 for the procurement of a single *VIRGINIA* Class submarine [VCS] as part of a nine-ship Block V multi-year procurement [MYP] contract that was awarded on December 2, 2019. The Committee notes that the contract includes options for one additional VCS in fiscal years 2021, 2022, or 2023. The Committee further notes that the Block V contract award represents a change to the Navy’s acquisition strategy for Block V VCS from fiscal years 2018 and 2019, when the Navy requested and was authorized by the Congress MYP authority for 10-ship Block V VCS acquisition. The Committee is aware of challenges and schedule delays in ongoing construction of the previously awarded 10-ship Block IV VCS program, but also believes that repeated adjustments to acquisition and funding strategies negatively impact the submarine industrial base and its suppliers. The Committee is concerned that the Navy continues to inject programmatic, acquisition, and fiscal uncertainty into the VCS program, which will likely have detrimental effects on the acquisition of the *COLUMBIA* Class. The Committee recommends an additional \$472,000,000 in advance procurement for a potential tenth Block V VCS and directs that none of these funds may be obligated and expended until the Assistant Secretary of the Navy (Research, Development and Acquisition) provides an update to the congressional defense committees on the Navy’s submarine enterprise management and acquisition plans, to include progress updates of VCS Block IV performance against established metrics and cost impacts.

DDG-51 Flight III Acquisition Strategy.—The Committee notes that the current multi-year procurement contract for the DDG-51 Flight III destroyer ends in fiscal year 2022, and that with submission of the fiscal year 2021 President’s budget request the Navy further delayed the detailed design and construction schedule of the planned follow-on program, the future Large Surface Combatant [LSC], until no sooner than fiscal year 2026. The Committee notes that despite this delay to LSC, the Navy is planning to procure only four DDG-51 Flight III destroyers from fiscal years 2023–2025, well below the current 2.4 DDG-51 destroyers per year MYP acquisition, and that the Navy in each of the last two budget submissions has reduced the procurement profile for DDG-51 Flight III destroyers. The Committee finds this inconsistent with previously stated shipbuilding objectives and believes that the lack of a predictable and stable acquisition strategy for large surface combatants undercuts naval maritime superiority and injects risk into the industrial base. The Assistant Secretary of the Navy (Research, Development and Acquisition) is directed to provide to the congressional defense committees, with submission of the fiscal year 2022 President’s budget request, the Navy’s fully funded strategy for large surface combatants. The Committee recommends an additional \$130,000,000 in advance procurement only for an additional DDG-51 Flight III destroyer in fiscal year 2022.

CONSTELLATION Class Frigate.—The fiscal year 2021 President’s budget request includes \$1,053,123,000 for the procurement

of a second *CONSTELLATION* Class Frigate [CCF]. The Committee notes that the detail design and construction contract for FFG 62 USS *CONSTELLATION*, the first ship of the class, was awarded in April 2020, and that the Navy plans a design period of no less than 14 months prior to the start of construction of FFG 62 in the fourth quarter of fiscal year 2022. The Committee further notes that the Navy did not plan a “gap year” between construction of the first and second ships of the CCF that would allow for potential design changes to be incorporated into the build plan prior to start of construction of the second ship. Instead, the Navy plans to exercise the contract option for the second CCF ship in fiscal year 2021 prior to the conclusion of the Critical Design and Production Readiness Reviews scheduled in fiscal year 2022, and plans to start construction of the second Frigate in the first quarter of fiscal year 2023.

Given the Navy’s past challenges in managing costs and schedule of lead ships of a class, the Committee believes that a high percentage of design completion is necessary to ensure success of this new shipbuilding program. For instance, the Committee notes that for the previous class of small surface combatants, arrangements for the two ship designs were 60 percent and 34 percent complete at the start of construction, respectively, and experienced cost growth in excess of 150 percent. By contrast, arrangements are 100 percent complete and design disclosures were over 80 percent complete prior to start of construction of the *COLUMBIA* Class submarine. The Assistant Secretary of the Navy (Research, Development and Acquisition) is directed to provide to the congressional defense committees, no later than with the fiscal year 2022 President’s budget request, quarterly planned and actual design progress curves for tech requirements, arrangements, design disclosures, and work instructions for the CCF leading up to the start of construction of FFG 62. The Committee further directs that no funds for construction of the second CCF may be obligated until the Director, Cost Assessment and Program Evaluation, has provided to the congressional defense committees an updated cost assessment for the CCF based on the actual contract award and design changes implemented since the previous Independent Cost Estimate.

OTHER PROCUREMENT, NAVY

Appropriations, 2020	\$10,075,257,000
Budget estimate, 2021	10,948,518,000
Committee recommendation	10,889,894,000

The Committee recommends an appropriation of \$10,889,894,000. This is \$58,624,000 below the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

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

[Dollars in thousands]

Line	Item	Qty.	2021 budget estimate	Qty.	Committee recommendation	Change from	
						Qty.	Budget estimate
	OTHER PROCUREMENT, NAVY						
	SHIPS SUPPORT EQUIPMENT						
	SHIP PROPULSION EQUIPMENT						
1	SURFACE POWER EQUIPMENT		11,738		11,738		
	GENERATORS						
2	SURFACE COMBATANT HM&E		58,497		58,497		
	NAVIGATION EQUIPMENT						
3	OTHER NAVIGATION EQUIPMENT		74,084		74,084		
	PERISCOPES						
4	SUB PERISCOPES AND IMAGING SUPPORT EQUIPMENT PROGRAM		204,806		204,806		
	OTHER SHIPBOARD EQUIPMENT						
5	DDG MOD		547,569		547,569		
6	FIREFIGHTING EQUIPMENT		18,394		18,394		
7	COMMAND AND CONTROL SWITCHBOARD		2,374		2,374		
8	LHA/LHD MIDLIFE		78,265		78,265		
9	POLLUTION CONTROL EQUIPMENT		23,035		23,035		
10	SUBMARINE SUPPORT EQUIPMENT		64,632		64,632		
11	VIRGINIA CLASS SUPPORT EQUIPMENT		22,868		22,868		
12	LCS CLASS SUPPORT EQUIPMENT		3,976		3,976		
13	SUBMARINE BATTERIES		31,322		31,322		
14	LPD CLASS SUPPORT EQUIPMENT		50,475		50,475		
15	DDG-1000 SUPPORT EQUIPMENT		42,279		42,279		
16	STRATEGIC PLATFORM SUPPORT EQUIP		15,429		15,429		
17	DSSP EQUIPMENT		2,918		2,918		
18	CRUISER MODERNIZATION		87,978		87,978		
19	LCAC		9,366		9,366		
20	UNDERWATER EOD PROGRAMS		16,842		16,842		
21	ITEMS LESS THAN \$5 MILLION		105,715		105,715		
22	CHEMICAL WARFARE DETECTORS		3,044		3,044		
23	SUBMARINE LIFE SUPPORT SYSTEM		5,885		5,885		
24	SHIP MAINTENANCE, REPAIR AND MODERNIZATION		1,260,721		1,260,721		

[Dollars in thousands]

Line	Item	Qty.	2021 budget estimate	Qty.	Committee recommendation	Change from	
						Qty.	Budget estimate
25	REACTOR PLANT EQUIPMENT		5,305		5,305		
26	REACTOR POWER UNITS		415,404		415,404		
27	OCEAN ENGINEERING		11,143		11,143		
28	DIVING AND SALVAGE EQUIPMENT		52,371		52,371		
29	SMALL BOATS		233,667		233,667		
30	STANDARD BOATS						
31	PRODUCTION FACILITIES EQUIPMENT		39,714		39,714		
32	OPERATING FORCES IPE		218,822		194,122		-24,700
33	OTHER SHIP SUPPORT		61,759		38,359		-23,400
34	LCS COMMON MISSION MODULES EQUIPMENT		24,412		24,412		
35	LCS MCM MISSION MODULES		121,848		121,848		
	LCS ASW MISSION MODULES		67,709		37,585		-30,124
	LCS SUW MISSION MODULES		3,994,366		3,916,142		-78,224
	LCS IN-SERVICE MODERNIZATION						
	LOGISTICS SUPPORT						
	SMALL & MEDIUM UUV						
	TOTAL, SHPS SUPPORT EQUIPMENT		3,994,366		3,916,142		-78,224
	COMMUNICATIONS AND ELECTRONICS EQUIPMENT						
37	SHIP SONARS		27,517		27,517		
38	SPQ-9B RADAR		128,664		128,664		
39	AN/SQQ-89 SURF ASW COMBAT SYSTEM		374,737		374,737		
40	SSN ACOUSTICS EQUIPMENT		9,286		9,286		
41	UNDERSEA WARFARE SUPPORT EQUIPMENT		26,066		26,066		
42	ASW ELECTRONIC EQUIPMENT		13,241		13,241		
43	SUBMARINE ACOUSTIC WARFARE SYSTEM		193,446		193,446		
44	SSID		63,838		63,838		
	FIXED SURVEILLANCE SYSTEM						
	SURTASS						

45	ELECTRONIC WARFARE EQUIPMENT AN/SLO-32	387,195	387,195	387,195	387,195
46	RECONNAISSANCE EQUIPMENT SHIPBOARD IW EXPLOIT	235,744	235,744	235,744	235,744
47	AUTOMATED IDENTIFICATION SYSTEM (AIS)	3,862	3,862	3,862	3,862
48	OTHER SHIP ELECTRONIC EQUIPMENT COOPERATIVE ENGAGEMENT CAPABILITY	26,006	26,006	26,006	26,006
49	NAVAL TACTICAL COMMAND SUPPORT SYSTEM (NTCSS)	15,385	15,385	15,385	15,385
50	ATDLs	103,835	103,835	103,835	103,835
51	NAVY COMMAND AND CONTROL SYSTEM (NCCS)	3,594	3,594	3,594	3,594
52	MINESWEEPING SYSTEM REPLACEMENT	15,744	15,744	15,744	15,744
53	SHALLOW WATER MCM	5,493	5,493	5,493	5,493
54	NAVSTAR GPS RECEIVERS (SPACE)	38,043	38,043	38,043	38,043
55	ARMED FORCES RADIO AND TV	2,592	2,592	2,592	2,592
56	STRATEGIC PLATFORM SUPPORT EQUIP	7,985	7,985	7,985	7,985
57	AVIATION ELECTRONIC EQUIPMENT ASHORE ATC EQUIPMENT	83,475	83,475	83,475	83,475
58	AFLOAT ATC EQUIPMENT	65,113	65,113	65,113	65,113
59	ID SYSTEMS	23,815	23,815	23,815	23,815
60	JOINT PRECISION APPROACH AND LANDING SYSTEM	100,751	100,751	100,751	100,751
61	NAVAL MISSION PLANNING SYSTEMS	13,947	13,947	13,947	13,947
62	OTHER SHORE ELECTRONIC EQUIPMENT MARITIME INTEGRATED BROADCAST SYSTEM	1,375	1,375	1,375	1,375
63	TACTICAL/MOBILE C4I SYSTEMS	22,771	22,771	22,771	22,771
64	DCGS-N	18,872	18,872	18,872	18,872
65	CANES	389,585	389,585	389,585	389,585
66	RADIAC	10,335	10,335	10,335	10,335
67	CANES-INTELL	48,654	48,654	48,654	48,654
68	GPETE	8,133	8,133	8,133	8,133
69	NETWORK TACTICAL COMMON DATA LINK	4,150	4,150	4,150	4,150
70	INTEG COMBAT SYSTEM TEST FACILITY	5,934	5,934	5,934	5,934
71	EMI CONTROL INSTRUMENTATION	4,334	4,334	4,334	4,334
72	ITEMS LESS THAN \$5 MILLION	159,815	159,815	159,815	159,815
73	SHIPBOARD COMMUNICATIONS SHIPBOARD TACTICAL COMMUNICATIONS	56,106	56,106	56,106	56,106
74	SHIP COMMUNICATIONS AUTOMATION	124,288	124,288	124,288	124,288
75	COMMUNICATIONS ITEMS UNDER \$5M	45,120	45,120	45,120	45,120

[Dollars in thousands]

Line	Item	Qty.	2021 budget estimate	Qty.	Committee recommendation	Change from	
						Qty.	Budget estimate
76	SUBMARINE COMMUNICATIONS		31,133		31,133		
77	SUBMARINE BROADCAST SUPPORT		62,214		62,214		
	SUBMARINE COMMUNICATION EQUIPMENT						
78	SATELLITE COMMUNICATIONS		47,421		47,421		
79	SATELLITE COMMUNICATIONS SYSTEMS		64,552		64,552		
	NAVY MULTIBAND TERMINAL [NMT]						
	SHORE COMMUNICATIONS						
80	JCS COMMUNICATIONS EQUIPMENT		4,398		4,398		
	CRYPTOGRAPHIC EQUIPMENT						
81	INFO SYSTEMS SECURITY PROGRAM [ISSP]		157,551		157,551		
82	MIO INTEL EXPLOITATION TEAM		985		985		
	CRYPTOLOGIC EQUIPMENT						
83	CRYPTOLOGIC COMMUNICATIONS EQUIP		15,906		15,906		
	OTHER ELECTRONIC SUPPORT						
90	COAST GUARD EQUIPMENT		70,689		70,689		
	TOTAL, COMMUNICATIONS AND ELECTRONICS EQUIPMENT		3,323,695		3,323,695		
	AVIATION SUPPORT EQUIPMENT						
	SONOBUOYS						
92	SONOBUOYS—ALL TYPES		237,639		237,639		+ 50,000
	AIRCRAFT SUPPORT EQUIPMENT						
93	MINOTAUR		5,077		5,077		
94	WEAPONS RANGE SUPPORT EQUIPMENT		83,969		81,469		-2,500
95	AIRCRAFT SUPPORT EQUIPMENT		187,758		187,758		
96	ADVANCED ARRESTING GEAR (AAG)		16,059		16,059		
97	METEOROLOGICAL EQUIPMENT		15,192		15,192		
99	LEGACY AIRBORNE MINE COUNTERMEASURES		6,674		6,674		
100	COMMON CONTROL SYSTEM		1,189		1,189		
101	AVIATION SUPPORT EQUIPMENT		58,873		58,873		

102	UMCS-UNMAN CARRIER AVIATION (UCA) MISSION CONTROL	60,937	50,037	.....	.....	- 10,900
	TOTAL, AVIATION SUPPORT EQUIPMENT	673,367	709,967	.....	.....	+ 36,600
	ORDNANCE SUPPORT EQUIPMENT					
	SHIP GUN SYSTEM EQUIPMENT	5,540	5,540	.....	.....
103	SHIP GUN SYSTEMS EQUIPMENT					
	SHIP MISSILE SYSTEMS EQUIPMENT	208	208	.....	.....
104	HARPOON SUPPORT EQUIPMENT	262,077	262,077	.....	.....
105	SHIP MISSILE SUPPORT EQUIPMENT	84,087	84,087	.....	.....
106	TOMAHAWK SUPPORT EQUIPMENT					
	FBM SUPPORT EQUIPMENT	258,910	258,910	.....	.....
107	STRATEGIC MISSILE SYSTEMS EQUIP					
	ASW SUPPORT EQUIPMENT	173,770	173,770	.....	.....
108	SSN COMBAT CONTROL SYSTEMS	26,584	26,584	.....	.....
109	ASW SUPPORT EQUIPMENT					
	OTHER ORDNANCE SUPPORT EQUIPMENT	7,470	7,470	.....	.....
110	EXPLOSIVE ORDNANCE DISPOSAL EQUIP	6,356	6,356	.....	.....
111	ITEMS LESS THAN \$5 MILLION					
	OTHER EXPENDABLE ORDNANCE	86,356	72,056	.....	.....	- 14,300
112	ANTI-SHIP MISSILE DECOY SYSTEM	69,240	69,240	.....	.....
113	SUBMARINE TRAINING DEVICE MODS	192,245	192,245	.....	.....
114	SURFACE TRAINING EQUIPMENT					
	TOTAL, ORDNANCE SUPPORT EQUIPMENT	1,172,843	1,158,543	.....	.....	- 14,300
	CIVIL ENGINEERING SUPPORT EQUIPMENT					
115	PASSENGER CARRYING VEHICLES	6,123	6,123	.....	.....
116	GENERAL PURPOSE TRUCKS	2,693	2,693	.....	.....
117	CONSTRUCTION & MAINTENANCE EQUIP	47,301	47,301	.....	.....
118	FIRE FIGHTING EQUIPMENT	10,352	10,352	.....	.....
119	TACTICAL VEHICLES	31,475	31,475	.....	.....
120	POLLUTION CONTROL EQUIPMENT	2,630	2,630	.....	.....
121	ITEMS UNDER \$5 MILLION	47,972	44,272	.....	.....	- 3,700
122	PHYSICAL SECURITY VEHICLES	1,171	1,171	.....	.....
123	PHYSICAL SECURITY VEHICLES					
	TOTAL, CIVIL ENGINEERING SUPPORT EQUIPMENT	149,717	146,017	.....	.....	- 3,700

[Dollars in thousands]

Line	Item	Qty.	2021 budget estimate	Qty.	Committee recommendation	Change from	
						Qty.	Budget estimate
124	SUPPLY SUPPORT EQUIPMENT						
	SUPPLY EQUIPMENT		19,693		19,693		
	FIRST DESTINATION TRANSPORTATION		4,956		4,956		
126	SPECIAL PURPOSE SUPPLY SYSTEMS		668,639		668,639		
	TOTAL, SUPPLY SUPPORT EQUIPMENT		693,288		693,288		
	PERSONNEL AND COMMAND SUPPORT EQUIPMENT						
	TRAINING DEVICES						
127	TRAINING SUPPORT EQUIPMENT		4,026		4,026		
128	TRAINING AND EDUCATION EQUIPMENT		73,454		73,454		
	COMMAND SUPPORT EQUIPMENT						
129	COMMAND SUPPORT EQUIPMENT		32,390		32,390		
130	MEDICAL SUPPORT EQUIPMENT		974		12,974		+ 12,000
132	NAVAL MIP SUPPORT EQUIPMENT		5,606		5,606		
133	OPERATING FORCES SUPPORT EQUIPMENT		16,024		16,024		
134	CAISR EQUIPMENT		6,697		6,697		
135	ENVIRONMENTAL SUPPORT EQUIPMENT		27,503		27,503		
136	PHYSICAL SECURITY EQUIPMENT		138,281		138,281		
137	ENTERPRISE INFORMATION TECHNOLOGY		42,680		42,680		
140	NEXT GENERATION ENTERPRISE SERVICE		184,443		173,443		- 11,000
141	CYBERSPACE ACTIVITIES		16,523		16,523		
	TOTAL, PERSONNEL AND COMMAND SUPPORT EQUIPMENT		548,601		549,601		+ 1,000
142	SPARES AND REPAIR PARTS		374,195		374,195		
999	CLASSIFIED PROGRAMS		18,446		18,446		
	TOTAL, OTHER PROCUREMENT, NAVY		10,948,518		10,889,894		- 58,624

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
31	LCS MCM Mission Modules	218,822	194,122	- 24,700
	Restoring acquisition accountability: Concurrency			- 24,700
32	LCS ASW Mission Modules	61,759	38,359	- 23,400
	Restoring acquisition accountability: Schedule slips			- 23,400
35	Small & Medium UUV	67,709	37,585	- 30,124
	Restoring acquisition accountability: Concurrency			- 30,124
92	Sonobuoys—All Types	237,639	287,639	+ 50,000
	Program increase: Sonobuoys—All Types			+ 50,000
94	Weapons Range Support Equipment	83,969	81,469	- 2,500
	Program increase: TCTS restore capability			+ 1,500
	Restoring acquisition accountability: TCTS concurrency			- 4,000
102	UMCS-Unman Carrier Aviation(UCA)Mission Cntrl	60,937	50,037	- 10,900
	Improving funds management: CVN funding early to need			- 10,900
112	Anti-Ship Missile Decoy System	86,356	72,056	- 14,300
	Restoring acquisition accountability: AOEW production ramp			- 10,800
	Insufficient budget justification: AOEW production support			- 3,500
122	Items Under \$5 Million	47,972	44,272	- 3,700
	Improving funds management: Prior year carryover			- 3,700
130	Medical Support Equipment	974	12,974	+ 12,000
	Program increase: Navy fleet hospitals			+ 12,000
140	Next Generation Enterprise Service	184,443	173,443	- 11,000
	Improving funds management: Prior year carryover			- 11,000

Military Specifications.—The Committee understands that the Navy periodically updates military specifications [MIL-SPECs] for ship support equipment and spare parts. The Committee strongly believes that in order to preserve and promote competition within the industrial base, these updated MIL-SPECs should include commercial off the shelf products and technologies.

PROCUREMENT, MARINE CORPS

Appropriations, 2020	\$2,898,422,000
Budget estimate, 2021	2,903,976,000
Committee recommendation	2,722,853,000

The Committee recommends an appropriation of \$2,722,853,000. This is \$181,123,000 below the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

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

[Dollars in thousands]

Line	Item	Qty.	2021 budget estimate	Qty.	Committee recommendation	Change from	
						Qty.	Budget estimate
	PROCUREMENT, MARINE CORPS						
	WEAPONS AND COMBAT VEHICLES						
	TRACKED COMBAT VEHICLES						
1	AAV7A1 PIP	72	87,476	87,476	87,476		
2	AMPHIBIOUS COMBAT VEHICLE FAMILY OF VEHICLES		478,874	72	452,037		-26,837
3	LAV PIP		41,988		41,988		
	ARTILLERY AND OTHER WEAPONS						
4	155MM LIGHTWEIGHT TOWED HOWITZER		59		59		
5	ARTILLERY WEAPONS SYSTEM		174,687		49,687		-125,000
6	WEAPONS AND COMBAT VEHICLES UNDER \$5 MILLION		24,867		23,957		-910
	OTHER SUPPORT						
7	MODIFICATION KITS		3,067				-3,067
	TOTAL, WEAPONS AND COMBAT VEHICLES		811,018		655,204		-155,814
	GUIDED MISSILES AND EQUIPMENT						
	GUIDED MISSILES						
8	GROUND BASED AIR DEFENSE		18,920		18,920		
9	ANTI-ARMOR MISSILE—JAVELIN	98	19,888	98	19,888		
10	FAMILY OF ANTI-ARMOR WEAPON SYSTEMS		21,891		21,891		
11	ANTI-ARMOR MISSILE—TOW		34,985		34,985		
12	GUIDED MLRS ROCKET (GMLRS)	952	133,689	952	133,689		
	TOTAL, GUIDED MISSILES AND EQUIPMENT		229,373		229,373		
	COMMUNICATIONS AND ELECTRONICS EQUIPMENT						
	COMMAND AND CONTROL SYSTEMS						
13	COMMON AVIATION COMMAND AND CONTROL SYSTEM		35,057		35,057		
	REPAIR AND TEST EQUIPMENT						
14	REPAIR AND TEST EQUIPMENT		24,405		24,405		
15	MODIFICATION KITS		1,006		1,006		

[Dollars in thousands]

Line	Item	Qty.	2021 budget estimate	Qty.	Committee recommendation	Change from	
						Qty.	Budget estimate
44	POWER EQUIPMENT ASSORTED		23,430		23,430		
45	AMPHIBIOUS SUPPORT EQUIPMENT		5,752		5,752		
46	EOD SYSTEMS		20,939		20,939		
47	MATERIALS HANDLING EQUIPMENT						
	PHYSICAL SECURITY EQUIPMENT		23,063		23,063		
	GENERAL PROPERTY						
48	FIELD MEDICAL EQUIPMENT		4,187		4,187		
49	TRAINING DEVICES		101,765		83,867		-17,898
50	FAMILY OF CONSTRUCTION EQUIPMENT		19,305		19,305		
51	ULTRA-LIGHT TACTICAL VEHICLE		678		678		
	OTHER SUPPORT						
52	ITEMS LESS THAN \$5 MILLION		9,174		9,174		
	TOTAL, ENGINEER AND OTHER EQUIPMENT		209,179		191,281		-17,898
53	SPARES AND REPAIR PARTS		27,295		27,295		
999	CLASSIFIED PROGRAMS		3,797		3,797		
	TOTAL, PROCUREMENT, MARINE CORPS		2,903,976		2,722,853		-181,123

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
2	Amphibious Combat Vehicle Family of Vehicles	478,874	452,037	- 26,837
	Restoring acquisition accountability: Engineering change orders excess growth			- 11,137
	Restoring acquisition accountability: Integrated logistics support excess growth			- 15,700
5	Artillery Weapons System	174,687	49,687	- 125,000
	Program adjustment			- 125,000
6	Weapons and Combat Vehicles Under \$5 Million	24,867	23,957	- 910
	Improving funds management: Previously funded for Reducible Height Gunners Protection Kits			- 910
7	Modification Kits	3,067		- 3,067
	Improving funds management: Marine Corps-identified Improved Recovery Vehicle excess to need			- 3,067
29	Next Generation Enterprise Network (NGEN)	78,922	76,411	- 2,511
	Improving funds management: Previously funded for Enterprise Infrastructure Modernization			- 2,511
30	Common Computer Resources	35,349	33,349	- 2,000
	Improving funds management: Marine Corps Wargaming Capability forward financing			- 2,000
32	Radio Systems	343,250	340,350	- 2,900
	Improving funds management: Ancillary and Accessory Components forward financing			- 2,900
49	Training Devices	101,765	83,867	- 17,898
	Improving funds management: Carryover Production of the Force on Force Training Systems			- 11,898
	Improving funds management: Ranges and training area management early to need			- 6,000

AIRCRAFT PROCUREMENT, AIR FORCE

Appropriations, 2020	\$17,512,361,000
Budget estimate, 2021	17,908,145,000
Committee recommendation	18,360,141,000

The Committee recommends an appropriation of \$18,360,141,000. This is \$451,996,000 above the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

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

[Dollars in thousands]

Line	Item	Qty.	2021 budget estimate	Qty.	Committee recommendation	Change from	
						Qty.	Budget estimate
	COMBAT AIRCRAFT						
	TACTICAL FORCES						
1	F-35	48	4,567,018	60	5,438,899	+12	+ 871,881
2	F-35 (AP-CY)		610,800		610,800		
4	F-19EX	12	1,269,847	12	1,179,847		- 90,000
5	F-19EX (AP-CY)		133,500		133,500		
	TOTAL, COMBAT AIRCRAFT		6,581,165		7,363,046		+ 781,881
	AIRLIFT AIRCRAFT/TACTICAL AIRLIFT						
7	KC-46A MDAP	15	2,850,151	15	2,665,299		- 184,852
	OTHER AIRLIFT						
8	C-130J		37,131	8	797,131	+8	+760,000
10	MC-130J	4	362,807	4	345,107		- 17,700
11	MC-130J (AP)		39,987		39,987		
	TOTAL, AIRLIFT AIRCRAFT		3,290,076		3,847,524		+ 557,448
	OTHER AIRCRAFT						
	HELICOPTERS						
12	UH-1H REPLACEMENT	8	194,016	8	194,016		
13	COMBAT RESCUE HELICOPTER	16	973,473	16	909,909		- 63,564
	MISSION SUPPORT AIRCRAFT						
15	CIVIL AIR PATROL A/C		2,811		11,200		+ 8,389
	OTHER AIRCRAFT						
16	TARGET DRONES	38	133,273	38	133,273		
18	COMPASS CALL	1	161,117	1	130,000		- 31,117
20	MQ-9		29,409				- 29,409
20A	E-11			1	63,419	+1	+ 63,419
	TOTAL, OTHER AIRCRAFT		1,494,099		1,441,817		- 52,282

(Dollars in thousands)

Line	Item	Qty.	2021 budget estimate	Qty.	Committee recommendation	Change from	
						Qty.	Budget estimate
59	E-4 .....	.....	58,803	.....	44,140	.....	-14,663
60	E-8 .....	.....	11,037	.....	11,037	.....	.....
60	AIRBORNE WARNING AND CONTROL SYSTEM .....	.....	53,343	.....	53,343	.....	.....
62	FAMILY OF BEYOND LINE-OF-SIGHT TERMINALS .....	.....	1,573	.....	1,573	.....	.....
63	H-1 .....	.....	4,410	.....	4,410	.....	.....
64	H-60 .....	.....	44,538	.....	20,238	.....	-24,300
65	RQ-4 MODS .....	.....	40,468	.....	12,350	.....	-28,118
66	HG/MC-130 MODIFICATIONS .....	.....	20,780	.....	20,780	.....	.....
67	OTHER AIRCRAFT .....	.....	100,774	.....	100,774	.....	.....
68	MQ-9 MODS .....	.....	188,387	.....	188,387	.....	.....
70	CV-22 MODS .....	.....	122,306	.....	67,106	.....	-55,200
	TOTAL, MODIFICATION OF INSERVICE AIRCRAFT .....	.....	3,800,965	.....	3,194,576	.....	-606,389
71	AIRCRAFT SPARES AND REPAIR PARTS .....	.....	926,683	.....	907,949	.....	-18,734
	INITIAL SPARES/REPAIR PARTS .....	.....	.....	.....	.....	.....	.....
	TOTAL, AIRCRAFT SPARES AND REPAIR PARTS .....	.....	926,683	.....	907,949	.....	-18,734
73	AIRCRAFT SUPPORT EQUIPMENT AND FACILITIES .....	.....	132,719	.....	128,219	.....	-4,500
	COMMON SUPPORT EQUIPMENT .....	.....	.....	.....	.....	.....	.....
	AIRCRAFT REPLACEMENT SUPPORT EQUIP .....	.....	.....	.....	.....	.....	.....
	POST PRODUCTION SUPPORT .....	.....	.....	.....	.....	.....	.....
74	B-2A .....	.....	1,683	.....	1,683	.....	.....
75	B-2B .....	.....	46,734	.....	37,310	.....	-9,424
76	B-52 .....	.....	1,034	.....	1,034	.....	.....
79	E-11 BACW/HAG .....	.....	63,419	.....	.....	.....	-63,419
80	F-15 .....	.....	2,632	.....	2,632	.....	.....
81	F-16 .....	.....	14,163	.....	14,163	.....	.....
83	OTHER AIRCRAFT .....	.....	4,595	.....	4,595	.....	.....
84	RQ-4 POST PRODUCTION CHARGES .....	.....	32,585	.....	1,750	.....	-30,835
	INDUSTRIAL PREPAREDNESS .....	.....	.....	.....	.....	.....	.....
85	INDUSTRIAL RESPONSIVENESS .....	.....	18,215	.....	18,215	.....	.....

	WAR CONSUMABLES								
86	WAR CONSUMABLES		36,046			32,046			-4,000
	OTHER PRODUCTION CHARGES								
87	OTHER PRODUCTION CHARGES		1,439,640			1,341,890			-97,750
	TOTAL, AIRCRAFT SUPPORT EQUIPMENT AND FACILITIES		1,793,465			1,583,537			-209,928
999	CLASSIFIED PROGRAMS		21,692			21,692			
	TOTAL, AIRCRAFT PROCUREMENT, AIR FORCE		17,908,145			18,360,141			+451,996

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
1	F-35	4,567,018	5,438,899	+ 871,881
	Restoring acquisition accountability: Unit cost adjustment			- 101,119
	Restoring acquisition accountability: Prior-year credit adjustment excess to need			- 156,000
	Program increase: Twelve aircraft			+ 1,129,000
4	F-15EX	1,269,847	1,179,847	- 90,000
	Restoring acquisition accountability: Unit cost adjustment			- 90,000
7	KC-46A MDAP	2,850,151	2,665,299	- 184,852
	Improving funds management: Lot 7 funding excess to NTE ceiling			- 142,352
	Improving funds management: Forward financing depot standup activities			- 42,500
8	C-130J	37,131	797,131	+ 760,000
	Program increase: Eight aircraft for the Air National Guard and Air Force Reserve			+ 760,000
10	MC-130J	362,807	345,107	- 17,700
	Restoring acquisition accountability: Air Force-identified excess to need			- 17,700
13	Combat Rescue Helicopter	973,473	909,909	- 63,564
	Maintain program affordability: Unjustified request			- 63,564
15	Civil Air Patrol A/C	2,811	11,200	+ 8,389
	Program increase			+ 8,389
18	Compass Call	161,117	130,000	- 31,117
	Restoring acquisition accountability: Unit cost growth			- 29,867
	Improving funds management: PMA funded in mods line			- 1,250
20	MQ-9	29,409		- 29,409
	Improving funds management: Shutdown costs ahead of need			- 29,409
20A	E-11		63,419	+ 63,419
	Transfer: Air Force-requested technical adjustment from line 79			+ 63,419
22	B-1	3,853		- 3,853
	Maintain program affordability: CITS unjustified request			- 3,853
23	B-2A	31,476	30,819	- 657
	Maintain program affordability: LOSSM PMA unjustified growth			- 657
25	B-52	53,949	27,279	- 26,670
	Restoring acquisition accountability: GPS-IU contract delay			- 11,857
	Restoring acquisition accountability: Bomber Tactical Data Link kit rephasing			- 12,813
	Restoring acquisition accountability: Bomber Tactical Data Link installations ahead of need			- 2,000
29	F-15	349,304	215,922	- 133,382
	Improving funds management: APG-82(V)1 carryover			- 101,000
	Improving funds management: APG-82(V)1 other government costs excess to need			- 12,094
	Improving funds management: Overestimation of APG-82(V)1 installation costs			- 10,728
	Improving funds management: MUOS ahead of need ..			- 8,050
	Restoring acquisition accountability: F-15 C APG-63(V)3 common configuration requirement rescinded			- 1,510
30	F-16	615,760	516,362	- 99,398

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
	Transfer: Air Force-requested transfer to RDT&E, AF line 187 for AIFF Mode 5			- 9,868
	Restoring acquisition accountability: ALR-69A undefinitized acquisition strategy			- 28,187
	Improving funds management: Forward financing Comm Suite Upgrade			- 58,044
	Restoring acquisition accountability: AESA unit cost adjustment			- 3,299
32	F-22A	387,905	344,386	- 43,519
	Improving funds management: Link 16 installations ahead of need			- 13,200
	Insufficient budget justification: Sensor Enhancement discrepancy			- 6,597
	Restoring acquisition accountability: Crypto mod installation funding excess to need			- 3,115
	Restoring acquisition accountability: RAMP excess to need			- 20,607
33	F-35 Modifications	322,185	275,832	- 46,353
	Improving funds management: Correction of deficiencies ICS overestimation			- 27,836
	Improving funds management: DTIP kits carryover			- 12,000
	Restoring acquisition accountability: DTIP B-kits unit cost adjustment			- 6,517
34	F-15 EPAW	31,995		- 31,995
	Restoring acquisition accountability: EPAWSS development delays			- 31,995
36	KC-46A MDAP	24,085		- 24,085
	Restoring acquisition accountability: Ahead of need			- 24,085
37	C-5	62,108	50,279	- 11,829
	Restoring acquisition accountability: CMC WxRadar installation delays			- 6,098
	Restoring acquisition accountability: Air Force identified-CNS/ATM excess to need			- 2,131
	Maintain program affordability: CNS/ATM advisory services unjustified growth			- 3,600
38	C-17A	66,798	43,431	- 23,367
	Restoring acquisition accountability: BLOS program delay			- 23,367
41	C-37A	12,985	10,985	- 2,000
	Improving funds management: Wideband SATCOM installations ahead of need			- 2,000
45	T-38	36,806	35,806	- 1,000
	Improving funds management: TRIM kit installations ahead of need			- 1,000
51	C-130	5,871	56,980	+ 51,109
	Improving funds management: AMP Increment 2 ahead of need			- 50
	Restoring acquisition accountability: AMP Increment 1 excess to need			- 3,841
	Program increase: Eight blade propeller upgrade			+ 55,000
52	C-130J Mods	140,032	136,632	- 3,400
	Improving funds management: Forward financing Block 8.1 OGC			- 3,400
53	C-135	88,250	82,350	- 5,900
	Improving funds management: RPI forward financing			- 5,900
55	Compass Call	193,389	169,653	- 23,736
	Insufficient budget justification: Baseline 4 cost discrepancies			- 15,030
	Restoring acquisition accountability: Baseline 3 installation delays			- 8,706
58	E-3	172,141	118,068	- 54,073
	Maintain program affordability: IPEC B-kit NRE unjustified growth			- 6,593

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
	Maintain program affordability: IPEC change orders unjustified growth			- 5,579
	Improving funds management: Overestimation of DRAGON installation costs			- 5,500
	Transfer: Air Force-requested technical adjustment for NATO AWACS to line 87			- 36,401
59	E-4	58,803	44,140	- 14,663
	Restoring acquisition accountability: SSHF acquisition strategy change			- 14,663
64	H-60	44,538	20,238	- 24,300
	Improving funds management: DVE kits ahead of need			- 24,300
65	RQ-4 Mods	40,468	12,350	- 28,118
	Maintain program affordability: Unjustified mod funding			- 26,118
	Improving funds management: ASIP SW/HW upgrades and support forward financed			- 2,000
70	CV-22 Mods	122,306	67,106	- 55,200
	Restoring acquisition accountability: Nacelle improvements concurrency			- 55,200
71	Initial Spares/Repair Parts	926,683	907,949	- 18,734
	Improving funds management: F-16 DRWR carryover			- 3,535
	Improving funds management: F-16 AIFF Mode 5 excess to need			- 1,003
	Improving funds management: Forward financing F-16 Auto GCAS			- 1,906
	Improving funds management: F-15 EPAWSS ahead of need			- 8,044
	Improving funds management: AWACS ahead of need			- 14,246
	Program increase: F-35A spares			+ 10,000
73	Aircraft Replacement Support Equip	132,719	128,219	- 4,500
	Maintain program affordability: ARTS ICS unjustified growth			- 2,500
	Maintain program affordability: Aircraft engine trailers unjustified growth			- 2,000
75	B-2B	46,734	37,310	- 9,424
	Maintain program affordability: Unjustified support costs			- 9,424
79	E-11 BACN/HAG	63,419		- 63,419
	Transfer: Air Force-requested technical adjustment to line 20A			- 63,419
84	RQ-4 Post Production Charges	32,585	1,750	- 30,835
	Restoring acquisition accountability: GSMP development delays			- 7,330
	Improving funds management: MS-177 ICS forward financed			- 23,505
86	War Consumables	36,046	32,046	- 4,000
	Improving funds management: Prioryear carryover			- 4,000
87	Other Production Charges	1,439,640	1,341,890	- 97,750
	Restoring acquisition accountability: Air Force identified-CNS/ATM excess to need			- 9,304
	Improving funds management: Forward financing EW POD			- 43,830
	Improving funds management: Forward financing F-15 depot standup			- 7,200
	Transfer: Air Force-requested technical adjustment for NATO AWACS from line 58			+ 36,401
	Classified adjustment			- 73,817

C-130 Roadmap.—The Committee directs the Secretary of the Air Force to submit a report to the congressional defense committees, not later than 120 days after enactment of this act, outlining the fleet management plan for C-130 aircraft. The report shall in-

clude, but is not limited to, an assessment of the following: theater and domestic airlift requirements; Primary Aircraft Authorizations, Backup Aircraft Authorization, Attrition Reserve, and total active aircraft inventory by type; desired C-130H/J fleet mix; modernization and recapitalization plans; and funding requirements by appropriation and budget line item. The report shall encompass the fiscal year 2022 Future Years Defense Program.

LC-130H Recapitalization.—The Committee notes that the Air National Guard operates the Department of Defense’s LC-30H fleet, which is a ski-equipped version of the C-130 cargo plane. This unique capability provides the Department of Defense with access to remote polar regions, otherwise inaccessible with traditional aircraft. Under Presidential Decision Memorandum 6646, the Department also provides reimbursable transportation services to the National Science Foundation for its efforts at McMurdo Station, Antarctica.

The Committee believes that recapitalizing this fleet to the newer J model aircraft will ensure continued access to these polar regions in the future, a vital capability to preserving our national interests in the region. Therefore, the Committee directs the Chief of the National Guard Bureau to provide a report to the congressional defense committees, not later than 120 days after enactment of this act, on the plan for managing and modernizing the existing LC-130H fleet. This plan should include, at a minimum, an analysis of the current fleet force structure and capabilities requirements, a modernization roadmap, and a list of the fleet’s unfunded priorities. Further, the Committee encourages the Secretary of the Air Force to program and budget for recapitalization of the LC-130H in future year’s budget cycles.

E-8C Joint Surveillance Target Attack Radar System.—The Committee notes that the fiscal year 2021 President’s budget request for the E-8C Joint Surveillance Target Attack Radar System [JSTARS] is \$11,037,000. Further, the Committee notes that in fiscal year 2020, the Air Force proposed \$20,000,000 from this program as a source on the omnibus reprogramming. The Committee believes that this level of funding is inadequate to support modernization of the platform through validated requirements, including avionics and communications upgrades. The Committee encourages the Secretary of the Air Force to ensure that robust funding is requested in the Future Years Defense Program accompanying the fiscal year 2022 President’s budget request to modernize the JSTARS fleet until a replacement of equal or superior capability is fielded and operational.

MISSILE PROCUREMENT, AIR FORCE

Appropriations, 2020	\$2,575,890,000
Budget estimate, 2021	2,396,417,000
Committee recommendation	2,281,817,000

The Committee recommends an appropriation of \$2,281,817,000. This is \$114,600,000 below the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

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

[Dollars in thousands]

Line	Item	Qty.	2021 budget estimate	Qty.	Committee recommendation	Change from	
						Qty.	Budget estimate
	MISSILE PROCUREMENT, AIR FORCE						
	BALLISTIC MISSILES						
	MISSILE REPLACEMENT EQUIPMENT—BALLISTIC						
1	MISSILE REPLACEMENT EQ—BALLISTIC		75,012		75,012		
	OTHER MISSILES						
	TACTICAL						
2	REPLAC EQUIP & WAR CONSUMABLES		4,495		4,495		
4	JOINT AIR-SURFACE STANDOFF MISSILE (JASSM)	376	475,949	376	475,949		
5	LONG RANGE ANTI-SHIP MISSILE (LRASMO)	5	19,800	5	19,800		
6	SIDEWINDER (AIM-9X)	331	164,769	331	164,769		
7	AWRAAM	414	453,223	414	451,923		-1,300
8	PREDATOR HELFIRE MISSILE	548	40,129	548	40,129		
9	SMALL DIAMETER BOMB	1,179	45,475	1,179	45,475		
10	SMALL DIAMETER BOMB II	1,133	273,272	1,133	209,972		-63,300
	INDUSTRIAL FACILITIES						
11	INDUSTRIAL PREPAREDNESS/POLLUTION PREVENTION		814		814		
	TOTAL, OTHER MISSILES		1,477,926		1,413,326		-64,600
	MODIFICATION OF INSERVICE MISSILES						
	CLASS IV						
13	ICBM FUZE MOD	20	3,458	20	3,458		
14	ICBM FUZE MOD		43,450		43,450		
15	MM III MODIFICATIONS		85,310		81,137		-4,173
16	AGM-65D MAVERICK		298		298		
17	AIR LAUNCH CRUISE MISSILE		52,924		52,924		
	TOTAL, MODIFICATION OF INSERVICE MISSILES		185,440		181,267		-4,173
	SPARES AND REPAIR PARTS						
18	INITIAL SPARES/REPAIR PARTS		9,402		13,575		+4,173

[Dollars in thousands]

Line	Item	Qty.	2021 budget estimate	Qty.	Committee recommendation	Change from	
						Qty.	Budget estimate
19	REPLEN SPARES/REPAIR PARTS		84,671		84,671		
	TOTAL, SPARES AND REPAIR PARTS		94,073		98,246		+4,173
	SPECIAL PROGRAMS						
23	SPECIAL UPDATE PROGRAMS		23,501		23,501		
999	CLASSIFIED PROGRAMS		540,465		490,465		- 50,000
	TOTAL, SPECIAL PROGRAMS		563,966		513,966		- 50,000
	TOTAL, MISSILE PROCUREMENT, AIR FORCE		2,396,417		2,281,817		- 114,600

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
7	AMRAAM	453,223	451,923	- 1,300
	Restoring acquisition accountability: AUR u/c growth			- 1,300
10	SMALL DIAMETER BOMB II	273,272	209,972	- 63,300
	Restoring acquisition accountability: Container u/c growth			- 2,400
	Restoring acquisition accountability: AUR u/c adjustment			- 60,900
15	MM III Modifications	85,310	81,137	- 4,173
	Transfer LCCBU initial spares: Air Force-requested to line 18			- 4,173
18	Msl Sprs/Repair Parts (Initial)	9,402	13,575	+ 4,173
	Transfer LCCBU initial spares: Air Force-requested from line 15			+ 4,173
999	Classified Programs	540,465	490,465	- 50,000
	Classified adjustment			- 50,000

SPACE PROCUREMENT, AIR FORCE

Appropriations, 2020	\$2,353,383,000
Budget estimate, 2021	
Committee recommendation	

The fiscal year 2021 President's budget request did not include funding for Space Procurement, Air Force.

PROCUREMENT OF AMMUNITION, AIR FORCE

Appropriations, 2020	\$1,625,661,000
Budget estimate, 2021	596,338,000
Committee recommendation	562,844,000

The Committee recommends an appropriation of \$562,844,000. This is \$33,494,000 below the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

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

[Dollars in thousands]

Line	Item	Qty.	2021 budget estimate	Qty.	Committee recommendation	Change from	
						Qty.	Budget estimate
PROCUREMENT OF AMMUNITION, AIR FORCE							
1	PROCUREMENT OF AMMO, AIR FORCE						
	ROCKETS		14,962		14,962		
2	CARTRIDGES		123,365		117,365		-6,000
BOMBS							
3	PRACTICE BOMBS		59,725		34,313		-25,412
6	JOINT DIRECT ATTACK MUNITION	10,000	206,989	10,000	206,989		
7	B61		35,634		35,634		
FLARE, IR MUJ-7B							
9	CAD/PAD		47,830		47,830		
10	EXPLOSIVE ORDNANCE DISPOSAL [EOD]		6,232		6,232		
11	SPARES AND REPAIR PARTS		542		542		
12	MODIFICATIONS		1,310		1,310		
13	ITEMS LESS THAN \$5,000,000		4,753		4,753		
FLARES/FUZES							
15	FLARES		40,088		40,088		
16	FUZES		40,983		38,901		-2,082
TOTAL, PROCUREMENT OF AMMO, AIR FORCE			582,413		548,919		-33,494
WEAPONS							
17	SMALL ARMS		13,925		13,925		
TOTAL, PROCUREMENT OF AMMUNITION, AIR FORCE			596,338		562,844		-33,494

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
2	Cartridges	123,365	117,365	- 6,000
	Improving funds management: BBU-48 early to need			- 6,000
3	Practice Bombs	59,725	34,313	- 25,412
	Restoring acquisition accountability: unjustified growth			- 25,412
16	Fuzes	40,983	38,901	- 2,082
	Restoring acquisition accountability: FMU-139D/B excess			- 2,082

OTHER PROCUREMENT, AIR FORCE

Appropriations, 2020	\$21,410,021,000
Budget estimate, 2021	23,695,720,000
Committee recommendation	23,225,804,000

The Committee recommends an appropriation of \$23,225,804,000. This is \$469,916,000 below the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

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

[Dollars in thousands]

Line	Item	Qty.	2021 budget estimate	Qty.	Committee recommendation	Change from	
						Qty.	Budget estimate
	OTHER PROCUREMENT, AIR FORCE						
	VEHICULAR EQUIPMENT						
	PASSENGER CARRYING VEHICLES						
1	PASSENGER CARRYING VEHICLE		9,016		9,016		
	CARGO + UTILITY VEHICLES						
2	FAMILY MEDIUM TACTICAL VEHICLE		15,058		15,058		
3	CAP VEHICLES		1,059		1,800		+ 741
4	ITEMS LESS THAN \$5M (CARGO AND UTILITY VEHICLES)		38,920		37,620		- 1,300
	SPECIAL PURPOSE VEHICLES						
5	JOINT LIGHT TACTICAL VEHICLE		30,544		30,544		
6	SECURITY AND TACTICAL VEHICLES		319		319		
7	ITEMS LESS THAN \$5M (SPECIAL PURPOSE VEHICLES)		43,157		43,157		
	FIRE FIGHTING EQUIPMENT						
8	FIRE FIGHTING/CRASH RESCUE VEHICLES		8,621		8,621		
	MATERIALS HANDLING EQUIPMENT						
9	ITEMS LESS THAN \$5M (MATERIALS HANDLING EQUIPMENT)		12,897		12,897		
	BASE MAINTENANCE SUPPORT						
10	RUNWAY SNOW REMOVAL & CLEANING EQUIP		3,577		3,577		
11	ITEMS LESS THAN \$5M (BASE MAINTENANCE SUPPORT VEHICLES)		43,095		43,095		
	TOTAL, VEHICULAR EQUIPMENT		206,263		205,704		- 559
	ELECTRONICS AND TELECOMMUNICATIONS EQUIP						
	COMM SECURITY EQUIPMENT(COMSEC)						
13	COMSEC EQUIPMENT		54,864		54,864		
	INTELLIGENCE PROGRAMS						
14	INTERNATIONAL INTEL TECH AND ARCHITECTURES		9,283		10,783		+ 1,500
15	INTELLIGENCE TRAINING EQUIPMENT		6,849		4,849		- 2,000
16	INTELLIGENCE COMM EQUIP		33,471		30,191		- 3,280

17	ELECTRONICS PROGRAMS								
18	TRAFFIC CONTROL/LANDING	29,409	29,409						
19	BATTLE CONTROL SYSTEM—FIXED	7,909	7,909						
20	THEATER AIR CONTROL SYS IMPRO	32,632	32,632						
21	WEATHER OBSERVATION FORECAST	33,021	33,021						
22	STRATEGIC COMMAND AND CONTROL	31,353	31,353						
23	CHEYENNE MOUNTAIN COMPLEX	10,314	8,199						-2,115
24	MISSION PLANNING SYSTEMS	15,132	15,132						
25	INTEGRATED STRAT PLAN AND ANALY NETWORK (ISPAN)	9,806	9,806						
26	SPECIAL COMM-ELECTRONICS PROJECTS								
27	GENERAL INFORMATION TECHNOLOGY	39,887	35,700						-4,187
28	AF GLOBAL COMMAND & CONTROL SYSTEM	2,602	2,602						
29	MOBILITY COMMAND AND CONTROL	10,541	10,541						
30	AIR FORCE PHYSICAL SECURITY SYSTEM	96,277	85,277						-11,000
31	COMBAT TRAINING RANGES	195,185	193,185						-2,000
32	MINIMUM ESSENTIAL EMERGENCY COMM N	29,664	21,664						-8,000
33	WIDE AREA SURVEILLANCE (WAS)	59,633	47,538						-12,095
34	C3 COUNTERMEASURES	105,584	100,084						-5,500
35	DEFENSE ENTERPRISE ACCOUNTING AND MGMT	899	899						
36	THEATER BATTLE MGT C2 SYS	3,392	3,392						
37	AIR AND SPACE OPERATIONS CTR-WPN SYSTEM	24,983	15,383						-9,600
38	AIR FORCE COMMUNICATIONS								
39	INFORMATION TRANSPORT SYSTEMS	19,147	19,147						
40	AFNET	84,515	84,515						
41	JOINT COMMUNICATIONS SUPPORT ELEMENT (JCSE)	6,185	6,185						
42	USCENTCOM	19,649	19,649						
43	USSTRATCOM	4,337	4,337						
44	ORGANIZATION AND BASE								
45	TACTICAL C-E EQUIPMENT	137,033	132,733						-4,300
46	RADIO EQUIPMENT	15,264	15,264						
47	BASE COMM INFRASTRUCTURE	132,281	146,281						+14,000
48	MODIFICATIONS								
49	COMM ELECT MODS	21,471	21,471						
50	TOTAL, ELECTRONICS AND TELECOMMUNICATIONS EQUIP	1,282,572	1,233,995						-48,577

[Dollars in thousands]

Line	Item	Qty.	2021 budget estimate	Qty.	Committee recommendation	Change from	
						Qty.	Budget estimate
	OTHER BASE MAINTENANCE AND SUPPORT EQUIP						
51	PERSONAL SAFETY AND RESCUE EQUIP ITEMS LESS THAN \$5,000,000 (SAFETY)		49,578		49,578		
52	DEPOT PLANT + MATERIALS HANDLING EQ POWER CONDITIONING EQUIPMENT		11,454		11,454		
53	MECHANIZED MATERIAL HANDLING		12,110		12,110		
54	BASE SUPPORT EQUIPMENT		21,142		21,142		
55	BASE PROCURED EQUIPMENT		7,700		7,700		
56	ENGINEERING AND EOD EQUIPMENT		18,266		18,266		
57	MOBILITY EQUIPMENT		9,601		9,601		
58	FUELS SUPPORT EQUIPMENT (FSE) ITEMS LESS THAN \$5M (BASE SUPPORT)		42,078		42,078		
	SPECIAL SUPPORT PROJECTS						
60	DARP RC135		27,164		27,164		
61	DISTRIBUTED GROUND SYSTEMS		121,528		121,528		
63	SPECIAL UPDATE PROGRAM		782,641		731,941		-50,700
	TOTAL, OTHER BASE MAINTENANCE AND SUPPORT EQUIP		1,103,262		1,052,562		-50,700
	SPARE AND REPAIR PARTS						
64	SPARES AND REPAIR PARTS (CYBER)		1,664		1,664		
65	SPARES AND REPAIR PARTS		15,847		15,847		
999	CLASSIFIED PROGRAMS		21,086,112		20,716,032		-370,080
	TOTAL, OTHER PROCUREMENT, AIR FORCE		23,695,720		23,225,804		-469,916

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
3	Cap Vehicles	1,059	1,800	+ 741
	Program increase: Civil Air Patrol vehicles			+ 741
4	Cargo and Utility Vehicles	38,920	37,620	- 1,300
	Restoring acquisition accountability: U/c growth			- 1,300
14	International Intel Tech & Architectures	9,283	10,783	+ 1,500
	Program Increase: PDI—Mission Partner Environment BICES-X			+ 1,500
15	Intelligence Training Equipment	6,849	4,849	- 2,000
	Insufficient Budget Justification: Poor justification materials			- 2,000
16	Intelligence Comm Equipment	33,471	30,191	- 3,280
	Restoring acquisition accountability: IMAD acquisition strategy			- 3,280
22	Cheyenne Mountain Complex	10,314	8,199	- 2,115
	NCMC—TWAA System Air Force requested transfer to PSF, line XX			- 2,115
26	General Information Technology	39,887	35,700	- 4,187
	Insufficient budget justification: LOGIT			- 391
	Insufficient budget justification: Unjustified Communications and IT request			- 3,796
30	Air Force Physical Security System	96,277	85,277	- 11,000
	Improving funds management: Prior year carryover			- 11,000
31	Combat Training Ranges	195,185	193,185	- 2,000
	Improving funds management: Forward financing			- 2,000
32	Minimum Essential Emergency Comm N	29,664	21,664	- 8,000
	Restoring acquisition accountability: Schedule slips			- 8,000
33	Wide Area Surveillance (WAS)	59,633	47,538	- 12,095
	Transfer ERSA: Air Force-requested to RDAF line 182			- 4,795
	Improving funds management: Forward financing			- 7,300
34	C3 Countermeasures	105,584	100,084	- 5,500
	Restoring acquisition accountability: U/c growth			- 5,500
39	Air & Space Operations Center [AOC]	24,983	15,383	- 9,600
	Insufficient budget justification: AOC Consolidation			- 6,000
	Maintain program affordability: Maintain level of effort			- 3,600
46	Tactical C-E Equipment	137,033	132,733	- 4,300
	Insufficient budget justification: Test benches			- 4,300
49	Base Comm Infrastructure	132,281	146,281	+ 14,000
	Program Increase: PDI—Mission Partner Environment PACNET			+ 14,000
63	Special Update Program	782,641	731,941	- 50,700
	Classified adjustment			- 50,700
999	Classified Programs	21,086,112	20,716,032	- 370,080
	Classified adjustment			- 370,080

PROCUREMENT, SPACE FORCE

Appropriations, 2020	
Budget estimate, 2021	\$2,446,064,000
Committee recommendation	2,227,179,000

The Committee recommends an appropriation of \$2,227,179,000. This is \$218,885,000 below the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

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

[Dollars in thousands]

Line	Item	Qty.	2021 budget estimate	Qty.	Committee recommendation	Change from	
						Qty.	Budget estimate
PROCUREMENT, SPACE FORCE							
1	SPACE PROGRAMS						
1	ADVANCED EHF		14,823		7,823		-7,000
2	AF SATELLITE COMM SYSTEM		48,326		48,326		
3	COUNTERSPACE SYSTEMS		65,540		35,540		-30,000
4	FAMILY OF BEYOND LINE-OF-SIGHT TERMINALS		66,190		66,190		
5	GENERAL INFORMATION TECH—SPACE		3,299		3,299		
6	GPS III FOLLOW ON	2	627,796		583,796		-44,000
7	GPS III SPACE SEGMENT		20,122		20,122		
8	GLOBAL POSITIONING (SPACE)		2,256		2,256		
9	SPACEBORNE EQUIP (COMSEC)		35,495		35,495		
10	MILSATCOM		15,795		15,795		
11	SBIR HIGH (SPACE)		160,891		135,891		-25,000
12	SPECIAL SPACE ACTIVITIES		78,387		78,387		
13	NATIONAL SECURITY SPACE LAUNCH	3	1,043,171		948,171		-95,000
14	NUDET DETECTION SYSTEM		6,638		6,638		
15	ROCKET SYSTEMS LAUNCH PROGRAM		47,741		47,741		
16	SPACE FENCE		11,279		11,279		
17	SPACE MODS		96,551		88,666		-7,885
18	SPACELIFT RANGE SYSTEM SPACE		100,492		90,492		-10,000
19	SPARES AND REPAIR PARTS		1,272		1,272		
TOTAL, PROCUREMENT, SPACE FORCE			2,446,064		2,227,179		-218,885

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
1	Advanced EHF	14,823	7,823	-7,000
	Maintain program affordability: Unjustified growth, technical mission analysis			-2,000
	Improving funds management: Prior year carryover			-5,000
3	Counterspace Systems	65,540	35,540	-30,000
	Improving funds management: Meadowlands ahead of need			-30,000
6	GPSIII Follow On	627,796	583,796	-44,000
	Maintain program affordability: Excess to need			-44,000
11	SBIR High (Space)	160,891	135,891	-25,000
	Improving funds management: S2E2 undefined strategy			-25,000
13	National Security Space Launch	1,043,171	948,171	-95,000
	Contract savings			-95,000
17	Space Mods	96,551	88,666	-7,885
	Department requested transfer from Other Procurement, AF			+2,115
	Improving funds management: Prior year carryover			-10,000
18	Spacelift Range System Space	100,492	90,492	-10,000
	Improving funds management: Prior year carryover			-10,000

National Security Space Launch.—The Committee has long supported the Air Force’s acquisition strategy for next generation launch vehicles and launch service procurement for National Security Space Launch [NSSL] as the best path forward for transitioning from the Russian RD-180 engine, increasing competition, and reducing launch costs, while maintaining assured access to space. The Committee applauds the recent Phase 2 competitive launch service awards, which, combined with the 2013 competitive program restructuring, have resulted in \$7,000,000,000 in savings.

Of particular note is that the NSSL acquisition strategy and Phase 2 awards put the nation on a path for true assured access to space, with two families of launch vehicles that will be required to meet all national security space launch requirements, including the delivery into space of any national security payload designated by the Secretary of Defense or the Director of National Intelligence. The Committee also notes that the Phase 2 awards allow government customers to procure launches through the Space Force launch enterprise at substantially reduced cost—in some cases near commercial pricing—with the benefit of robust mission assurance, something vitally important for national security launches.

The Committee is concerned, however, about recent moves by some agencies to procure launches outside of the space launch enterprise through direct commercial contracts or delivery on orbit contracts. The Committee understand the interest in utilizing such contracts for lower value missions or those missions requiring a rapid launch timeline, but notes that such price and schedule optimization for individual programs, is likely to have suboptimal results for the government as a whole. The Phase 2 contract is designed to lower the costs of the most stressing national security requirements by leveraging buying power across a multitude of mis-

sion types. If individual programs pursue commercial launch for lower tier missions and remove those missions from the Phase 2 contract, increasing costs for the remaining missions and ultimately higher government costs will likely result.

Therefore, the Committee directs that the Department of Defense and Intelligence Community to utilize the Space Force launch enterprise for NSSL class missions unless the Secretary of Defense or Director of National Intelligence certifies to the congressional defense and intelligence committees that commercial launch procurement for a designated mission is in the national security interest and best financial interest of the government and outlines the cost analysis and any other rationale for such a determination.

PROCUREMENT, DEFENSE-WIDE

Appropriations, 2020	\$5,332,147,000
Budget estimate, 2021	5,324,487,000
Committee recommendation	5,556,960,000

The Committee recommends an appropriation of \$5,556,960,000. This is \$232,473,000 above the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

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

[Dollars in thousands]

Line	Item	Qty.	2021 budget estimate	Qty.	Committee recommendation	Change from	
						Qty.	Budget estimate
	PROCUREMENT, DEFENSE-WIDE						
	MAJOR EQUIPMENT						
	MAJOR EQUIPMENT, DCAA						
	MAJOR EQUIPMENT, DCMA						
2	MAJOR EQUIPMENT		1,398		1,398		
	MAJOR EQUIPMENT, DCSA						
3	MAJOR EQUIPMENT		2,212		2,212		
	MAJOR EQUIPMENT, DHRA						
5	PERSONNEL ADMINISTRATION		4,213		4,213		
	MAJOR EQUIPMENT, DISA						
11	INFORMATION SYSTEMS SECURITY		17,211		17,211		
12	TELEPORT PROGRAM		29,841		29,841		
13	JOINT FORCES HEADQUARTERS—DODIN		3,091		3,091		
14	ITEMS LESS THAN \$5M		41,569		41,569		
16	DEFENSE INFORMATION SYSTEMS NETWORK		26,978		26,978		
17	WHITE HOUSE COMMUNICATION AGENCY		44,161		44,161		
18	SENIOR LEADERSHIP ENTERPRISE		35,935		35,935		
19	JOINT REGIONAL SECURITY STACKS (JRSS)		88,741		88,741		
20	JOINT SERVICE PROVIDER		157,538		157,538		
21	FOURTH ESTATE NETWORK OPTIMIZATION (4ENO)		42,084		42,084		
	MAJOR EQUIPMENT, DLA						
23	MAJOR EQUIPMENT		417,459		410,459		-7,000
	MAJOR EQUIPMENT, DDMAC						
24	MAJOR EQUIPMENT		7,993		7,993		
	MAJOR EQUIPMENT, DODEA						
25	AUTOMATION/EDUCATIONAL SUPPORT & LOGISTICS		1,319		1,319		
	MAJOR EQUIPMENT, DPAA						
26	MAJOR EQUIPMENT, DPAA	10	500	10	500		

[Dollars in thousands]

Line	Item	Qty.	2021 budget estimate	Qty.	Committee recommendation	Change from	
						Qty.	Budget estimate
64	CV-22 SOF MODIFICATION		14,829		14,829		
65	MQ-9 UNMANNED AERIAL VEHICLE		6,746		6,746		
66	PRECISION STRIKE PACKAGE		243,111		243,111		
67	AC/MC-130J		163,914		143,914		-20,000
68	C-130 MODIFICATIONS		20,414		20,414		
69	SHIPBUILDING						
	UNDERWATER SYSTEMS		20,556		20,556		
	AMMUNITION PROGRAMS						
70	SOF ORDNANCE ITEMS UNDER \$5,000,000		186,197		184,297		-1,900
	OTHER PROCUREMENT PROGRAMS						
71	SOF INTELLIGENCE SYSTEMS		94,982		94,982		
72	DGGS-SOF		11,645		11,645		
73	OTHER ITEMS UNDER \$5,000,000		96,333		81,707		-14,626
74	SOF COMBATANT CRAFT SYSTEMS		17,278		17,278		
75	SPECIAL PROGRAMS		78,865		68,865		-10,000
76	TACTICAL VEHICLES		30,158		30,158		
77	WARRIOR SYSTEMS UNDER \$5,000,000		260,733		260,733		
78	COMBAT MISSION REQUIREMENTS		19,848		19,848		
79	SOF GLOBAL VIDEO SURVEILLANCE ACTIVITIES		2,401		2,401		
80	SOF OPERATIONAL ENHANCEMENTS INTELLIGENCE		13,861		13,861		
81	SOF OPERATIONAL ENHANCEMENTS		247,038		247,038		
	TOTAL, SPECIAL OPERATIONS COMMAND		2,067,619		1,947,093		-120,526
	CHEMICAL/BIOLOGICAL DEFENSE						
82	CHEMICAL/BIOLOGICAL DEFENSE		147,150		140,250		-6,900
83	CB PROTECTION AND HAZARD MITIGATION		149,944		152,252		+2,308
	TOTAL, CHEMICAL/BIOLOGICAL DEFENSE		297,094		292,502		-4,592
999	CLASSIFIED PROGRAMS		554,264		488,159		-66,105
	TOTAL, PROCUREMENT, DEFENSE-WIDE		5,324,487		5,556,960		+232,473

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
23	Major Equipment (DLA)	417,459	410,459	- 7,000
	Transfer MGUE: DLA-requested transfer to RDDW, line 54			- 7,000
31	THAAD [MDA]	495,396	535,121	+ 39,725
	Program increase: THAAD Battery #8			+ 76,325
	Restoring acquisition accountability: Production continuity funding excess to need			- 36,600
32	Ground Based Midcourse [MDA]		150,000	+ 150,000
	Program increase: GBI boosters			+ 150,000
34	Aegis BMD [MDA]	356,195	353,896	- 2,299
	SM-3 block IB multiyear procurement unit cost savings			- 2,299
36	BMDS AN/TPY-2 Radars [MDA]		243,270	+ 243,270
	Program increase: THAAD Battery #8			+ 243,270
55	Armed Overwatch/Targeting	101,000	27,000	- 74,000
	Restoring acquisition accountability: Acquisition strategy			- 54,000
	Transfer Armed Overwatch: SOCOM-requested to RDDW Line 258			- 20,000
67	AC/MC-130J (SOCOM)	163,914	143,914	- 20,000
	Improving funds management: RFCM funding ahead of need			- 20,000
70	Ordnance Items <\$5M (SOCOM)	186,197	184,297	- 1,900
	Restoring acquisition accountability: U/c growth			- 1,900
73	Other Items <\$5M (SOCOM)	96,333	81,707	- 14,626
	SOCOM-identified excess			- 12,226
	Improving funds management: Unobligated balances			- 2,400
75	Special Programs (SOCOM)	78,865	68,865	- 10,000
	Restoring acquisition accountability: U/c growth			- 10,000
82	Chemical Biological Situational Awareness (CBDP)	147,150	140,250	- 6,900
	Program increase: CBRN Dismounted Reconnaissance System			+ 5,000
	Insufficient budget justification: Enhanced Maritime Biological Detection			- 7,200
	Insufficient budget justification: JCAD SLA support costs unjustified			- 3,600
	Improving funds management: MERLIN hardware previously funded			- 1,100
83	CB Protection & Hazard Mitigation (CBDP)	149,944	152,252	+ 2,308
	Program increase: Joint Service lightweight Integrated Suit Technology			+ 2,000
	Program increase: Smallpox Antiviral Stockpile			+ 10,000
	Insufficient budget justification: JSGPM			- 3,600
	Improving funds management: JSAM SA forward financing			- 4,600
	Insufficient budget justification: UIPE			- 1,492
999	Classified Programs	554,264	488,159	- 66,105
	Classified adjustment			- 66,105

Chemical Protective Suits.—The Committee recognizes the importance of maintaining warfighter capability during contingency operations involving the hostile deployment of chemical weapons and recommends continued support of the organic industrial base for chemical protective suits.

DEFENSE PRODUCTION ACT PURCHASES

Appropriations, 2020	\$64,393,000
Budget estimate, 2021	181,931,000
Committee recommendation	164,639,000

The Committee recommends an appropriation of \$164,639,000. This is \$17,292,000 below the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

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

[Dollars in thousands]

Line	Item	Qty.	2021 budget estimate	Qty.	Committee recommendation	Change from	
						Qty.	Budget estimate
	DEFENSE PRODUCTION ACT PURCHASES						
1	DEFENSE PRODUCTION ACT PURCHASES		181,931		164,639		- 17,292
1	TOTAL, DEFENSE PRODUCTION ACT PURCHASES		181,931		164,639		- 17,292

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
1	Defense Production Act Purchases	181,931	164,639	- 17,292
	Improving funds management: Department of Defense identified Alane Fuel funding ahead of need .....	.....	.....	- 7,292
	Improving funds management: Department of Defense identified 3D ME for information protection funding ahead of need .....	.....	.....	- 10,000

TITLE IV

RESEARCH, DEVELOPMENT, TEST AND EVALUATION

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

The President's fiscal year 2021 budget requests a total of \$106,224,793,000 for research, development, test and evaluation appropriations.

SUMMARY OF COMMITTEE ACTION

The Committee recommends research, development, test and evaluation appropriations totaling \$104,080,076,000 for fiscal year 2021. This is \$2,144,717,000 below the budget estimate.

Committee recommended research, development, test and evaluation appropriations for fiscal year 2021 are summarized below:

SUMMARY OF RESEARCH, DEVELOPMENT, TEST AND EVALUATION APPROPRIATIONS

[In thousands of dollars]

Account	2021 budget estimate	Committee recommendation	Change from budget estimate
Research, Development, Test and Evaluation:			
Research, Development, Test and Evaluation, Army	12,587,343	12,812,686	+ 225,343
Research, Development, Test and Evaluation, Navy	21,427,048	19,758,538	- 1,668,510
Research, Development, Test and Evaluation, Air Force	37,391,826	35,695,255	- 1,696,571
Research, Development, Test and Evaluation, Space Force	10,327,595	10,434,327	+ 106,732
Research, Development, Test and Evaluation, Defense-Wide	24,280,891	25,122,150	+ 841,259
Operational Test and Evaluation, Defense	210,090	257,120	+ 47,030
Total	106,224,793	104,080,076	- 2,144,717

REPROGRAMMING GUIDANCE FOR ACQUISITION ACCOUNTS

(INCLUDING BASE AND OVERSEAS CONTINGENCY OPERATIONS FUNDING)

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

Also, the Under Secretary of Defense (Comptroller) is directed to continue to provide the congressional defense committees quarterly, spreadsheet-based DD Form 1416 reports for service and defense-wide accounts in titles III and IV of this act. Reports for titles III

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

FUNDING INCREASES

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

RESEARCH, DEVELOPMENT, TEST AND EVALUATION SPECIAL INTEREST ITEMS

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

RESEARCH, DEVELOPMENT, TEST AND EVALUATION OVERVIEW

Mid-Tier Acquisition and Rapid Prototyping Programs.—The fiscal year 2021 President’s budget request includes funding in the research, development, test and evaluation accounts for Army, Navy, Air Force, Space Force, and Defense-Wide for several new and ongoing acquisition programs that use acquisition authorities and contracting strategies provided in National Defense Authorization Acts for rapid development, rapid prototyping, rapid acquisition, accelerated acquisition, and mid-tier acquisition (“section 804”) of warfighter capabilities. The spectrum of programs using these types of acquisition authorities ranges from small programs that have already deployed prototypes, to programs that by virtue of their scope and cost would otherwise be subject to reporting requirements and acquisition regulations applicable to traditional major acquisition category I programs.

While supportive of efforts to deliver capability to the warfighter in an accelerated manner, the Committee notes that under current law several reporting requirements that apply to traditional acquisition programs, to include independent cost estimates and test and evaluation master plans, are not required for mid-tier acquisition and rapid prototyping programs and to date have been provided

only when specifically directed by the Committee. As the Department of Defense appears to increase its reliance on such acquisition authorities, the Committee is concerned by this lack of standard acquisition information. Further, the Committee is concerned that the services' growing trend toward procuring de facto operational assets via prototyping acquisitions may limit the services' ability to successfully manage their acquisition programs in the long-term by eliminating the full understanding of long-term program costs upfront; unnecessarily narrowing down the industrial base early in the acquisition process; and eliminating opportunities for future innovation by reducing competitive opportunities over the life of the acquisition. Further, the Committee is concerned that budgeting for these de facto end-items incrementally with research and development appropriations instead of fully funding them with procurement appropriations obfuscates costs and limits transparency and visibility into services' procurement efforts.

The Under Secretaries of Defense (Research and Engineering) and (Acquisition and Sustainment), as well as the service acquisition executives for the Army, Navy, and Air Force are directed to provide to the congressional defense committees with submission of the fiscal year 2022 President's budget request a complete list of approved acquisition programs—and programs pending approval in fiscal year 2022—utilizing prototyping or accelerated acquisition authorities, along with the rationale for each selected acquisition strategy, as well as a cost estimate and contracting strategy for each such program. Further, the Under Secretary of Defense (Comptroller) and the respective Financial Manager and Comptrollers for the Army, Navy, and Air Force are directed to certify full funding of the acquisition strategies for each of these programs in the fiscal year 2022 President's budget request, including their test strategies; and the Director, Operational Test and Evaluation, is directed to certify to the congressional defense committees the appropriateness of the services' planned test strategies for such programs, to include a risk assessment. To the extent that the respective service acquisition executives, service financial manager and comptrollers and Director, Operational Test and Evaluation, provided the information requested above with submission of the fiscal year 2021 President's budget, any variations therefrom should be included with the fiscal year 2022 submission. In addition, the services' financial manager and comptrollers are directed to identify the full costs for prototyping units by individual item in the research, development, test and evaluation budget exhibits for the budget year as well as the Future Years Defense Program.

Transition of programs from the Strategic Capabilities Office.—The fiscal year 2021 President's budget request includes \$730,508,000 in Research, Development, Test and Evaluation, Defense-Wide, for programs managed and executed by the Strategic Capabilities Office [SCO]. The Committee supports the transition from SCO to the services of several programs to the extent that they address service requirements. However, the Committee is concerned that for programs planned for transition from SCO to the services, detailed cost, schedule, and budget data are not routinely included with SCO's and the services' budget justification materials. Further, the Committee notes that SCO and the services fre-

quent use of different program names when describing the same effort complicates the traceability of programs and funding and hampers congressional oversight.

Therefore, the Director, SCO, in coordination with the service acquisition executives, is directed to provide to the congressional defense committees, with submission of the fiscal year 2022 President's budget request, a matrix identifying SCO programs with their SCO and respective transition partners' program schedules, and Future Years Defense Program profiles by fiscal year, appropriation account, and program element.

Software and Digital Technology Pilot Programs.—The Committee notes that the fiscal year 2021 President's budget request included a Department of Defense proposal for a new general provision providing additional flexibilities by creating Software and Digital Technology Pilot Programs funded in a new Budget Activity Eight within the Research, Development, Test and Evaluation accounts. The Committee acknowledges the Department's rationale regarding the incremental technical challenges posed by modern software development, including implementing technical fixes to existing code, addressing cyber vulnerabilities, and integrating incrementally developed new capabilities. However, the Committee believes that objective quantitative and qualitative evidence is needed to evaluate potential expansion of the approved pilot programs. Therefore, the Committee recommends a modified version of the requested general provision with a limitation on program expansion.

Further, the Committee emphasizes its belief that seeking additional flexibility in the execution of appropriations should not be a solution to internal accounting and guidance issues that challenge the Department's ability to execute these programs. The Committee encourages the Secretary of Defense to execute the recommended pilot programs through fiscal year 2021 and 2022, while performing detailed analysis of the Department's accounting and financial management process for such pilot programs as compared to existing software and digital technology programs.

Not later than 90 days after the enactment of this act the Secretary of Defense shall submit a report to the congressional defense committees detailing the Department's assessment plan for each of the programs recommended in the general provision. This report shall include, at a minimum: quantitative and qualitative metrics; identification of eight similar programs, with representations from each service, funded through traditional appropriation legislation to assess concurrently for comparison; and a plan to assess each pilot program against their own historical performance when funded through traditional appropriation legislation. Following submittal of the assessment plan prescribed above, the Secretary of Defense shall provide, to the congressional defense committees, quarterly reports on the status of each pilot program.

RESEARCH, DEVELOPMENT, TEST AND EVALUATION, ARMY

Appropriations, 2020	\$12,543,435,000
Budget estimate, 2021	12,587,343,000
Committee recommendation	12,812,686,000

The Committee recommends an appropriation of \$12,812,686,000. This is \$225,343,000 above the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

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

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
	RESEARCH, DEVELOPMENT, TEST & EVALUATION, ARMY			
	BASIC RESEARCH			
2	DEFENSE RESEARCH SCIENCES	303,257	354,257	+ 51,000
3	UNIVERSITY RESEARCH INITIATIVES	67,148	67,148	.....
4	UNIVERSITY AND INDUSTRY RESEARCH CENTERS	87,877	87,877	.....
5	CYBER COLLABORATIVE RESEARCH ALLIANCE	5,077	5,077	.....
	TOTAL, BASIC RESEARCH	463,359	514,359	+ 51,000
	APPLIED RESEARCH			
7	BIOMEDICAL TECHNOLOGY	11,835	11,835	.....
11	COUNTER IMPROVISED-THREAT ADVANCED STUDIES	2,000	2,000	.....
12	LETHALITY TECHNOLOGY	42,425	59,925	+ 17,500
13	ARMY APPLIED RESEARCH	30,757	63,757	+ 33,000
14	SOLDIER LETHALITY TECHNOLOGY	125,435	138,935	+ 13,500
15	GROUND TECHNOLOGY	28,047	79,047	+ 51,000
16	NEXT GENERATION COMBAT VEHICLE TECHNOLOGY	217,565	243,565	+ 26,000
17	NETWORK C3I TECHNOLOGY	114,404	159,904	+ 45,500
18	LONG RANGE PRECISION FIRES TECHNOLOGY	60,553	102,053	+ 41,500
19	FUTURE VERTICAL LIFT TECHNOLOGY	96,484	145,484	+ 49,000
20	AIR AND MISSILE DEFENSE TECHNOLOGY	56,298	95,698	+ 39,400
22	C3I APPLIED CYBER	18,816	18,816	.....
40	MANPOWER/PERSONNEL/TRAINING TECHNOLOGY	20,766	20,766	.....
42	MEDICAL TECHNOLOGY	95,496	97,496	+ 2,000
	TOTAL, APPLIED RESEARCH	920,881	1,239,281	+ 318,400
	ADVANCED TECHNOLOGY DEVELOPMENT			
44	MEDICAL ADVANCED TECHNOLOGY	38,896	53,896	+ 15,000
49	MANPOWER, PERSONNEL AND TRAINING ADVANCED TECHNOLOGY	11,659	11,659	.....
52	MEDICAL DEVELOPMENT	27,723	27,723	.....
53	ARMY ADVANCED TECHNOLOGY DEVELOPMENT	62,663	62,663	.....
54	SOLDIER LETHALITY ADVANCED TECHNOLOGY	109,608	119,608	+ 10,000
55	GROUND ADVANCED TECHNOLOGY	14,795	105,595	+ 90,800
59	COUNTER IMPROVISED-THREAT SIMULATION	25,000	25,000	.....
63	C3I CYBER ADVANCED DEVELOPMENT	23,357	23,357	.....
64	HIGH PERFORMANCE COMPUTING MODERNIZATION PROGRAM	188,024	228,024	+ 40,000
65	NEXT GENERATION COMBAT VEHICLE ADVANCED TECHNOLOGY	199,358	244,358	+ 45,000
66	NETWORK C3I ADVANCED TECHNOLOGY	158,608	192,908	+ 34,300
67	LONG RANGE PRECISION FIRES ADVANCED TECHNOLOGY	121,060	156,060	+ 35,000
68	FUTURE VERTICAL LIFT ADVANCED TECHNOLOGY	156,194	183,694	+ 27,500
69	AIR AND MISSILE DEFENSE ADVANCED TECHNOLOGY	58,130	150,130	+ 92,000
77	HUMANITARIAN DEMINING	8,515	8,515	.....
	TOTAL, ADVANCED TECHNOLOGY DEVELOPMENT	1,203,590	1,593,190	+ 389,600
	DEMONSTRATION & VALIDATION			
78	ARMY MISSILE DEFENSE SYSTEMS INTEGRATION	11,062	117,312	+ 106,250
79	ARMY SPACE SYSTEMS INTEGRATION	26,230	26,230	.....
80	AIR AND MISSILE DEFENSE SYSTEMS ENGINEERING	26,482	48,982	+ 22,500
81	LANDMINE WARFARE AND BARRIER-ADV DEV	64,092	52,172	- 11,920
83	TANK AND MEDIUM CALIBER AMMUNITION	92,753	83,392	- 9,361

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
84	ARMORED SYSTEM MODERNIZATION—ADV DEV	151,478	144,214	- 7,264
85	SOLDIER SUPPORT AND SURVIVABILITY	5,841	5,841	.....
86	TACTICAL ELECTRONIC SURVEILLANCE SYSTEM—ADV DEV ..	194,775	176,991	- 17,784
87	NIGHT VISION SYSTEMS ADVANCED DEVELOPMENT	24,316	14,316	- 10,000
88	ENVIRONMENTAL QUALITY TECHNOLOGY—DEM/VAL	13,387	16,387	+ 3,000
89	NATO RESEARCH AND DEVELOPMENT	4,762	4,762	.....
90	AVIATION—ADV DEV	647,937	712,946	+ 65,009
91	LOGISTICS AND ENGINEER EQUIPMENT—ADV DEV	4,761	8,761	+ 4,000
92	MEDICAL SYSTEMS—ADV DEV	28,520	34,020	+ 5,500
93	SOLDIER SYSTEMS—ADVANCED DEVELOPMENT	26,138	24,138	- 2,000
94	ROBOTICS DEVELOPMENT	121,207	101,667	- 19,540
96	ELECTRONIC WARFARE TECHNOLOGY MATURATION [MIP]	22,840	15,034	- 7,806
97	LOW EARTH ORBIT (LEO) SATELLITE CAPABILITY	22,678	22,678	.....
98	ANALYSIS OF ALTERNATIVES	10,082	10,082	.....
99	SMALL UNMANNED AERIAL VEHICLE (SUAV) (64)	1,378	1,378	.....
100	FUTURE TACTICAL UNMANNED AIRCRAFT SYSTEM (FTUAS) ...	40,083	40,083	.....
101	LOWER TIER AIR MISSILE DEFENSE (LTAMID) SENSOR	376,373	322,543	- 53,830
102	TECHNOLOGY MATURATION INITIATIVES	156,834	128,462	- 28,372
103	MANEUVER—SHORT RANGE AIR DEFENSE (M—SHORAD)	4,995	4,995	.....
105	ARMY ADVANCED COMPONENT DEVELOPMENT & PROTO- TYPING	170,490	170,490	.....
106	ASSURED POSITIONING, NAVIGATION AND TIMING (PNT)	128,125	120,364	- 7,761
107	SYNTHETIC TRAINING ENVIRONMENT REFINEMENT AND PROTOTYPING	129,547	81,421	- 48,126
108	COUNTER IMPROVISED—THREAT DEMONSTRATION, PROTO- TYPE DEVELOPMENT, AND TESTING	13,831	13,831	.....
109	HYPERSONICS	801,417	861,417	+ 60,000
111	FUTURE INTERCEPTOR	7,992	7,992	.....
112	UNIFIED NETWORK TRANSPORT	40,677	40,677	.....
113	MOBILE MEDIUM RANGE MISSILE .....	.....	18,000	+ 18,000
115	CYBERSPACE OPERATIONS FORCES AND FORCE SUPPORT ...	50,525	50,525	.....
	TOTAL, DEMONSTRATION & VALIDATION	3,421,608	3,482,103	+ 60,495
	ENGINEERING & MANUFACTURING DEVELOPMENT			
118	AIRCRAFT AVIONICS	2,764	2,764	.....
119	ELECTRONIC WARFARE DEVELOPMENT	62,426	55,378	- 7,048
121	INFANTRY SUPPORT WEAPONS	91,574	87,837	- 3,737
122	MEDIUM TACTICAL VEHICLES	8,523	8,523	.....
123	JAVELIN	7,493	6,257	- 1,236
124	FAMILY OF HEAVY TACTICAL VEHICLES	24,792	23,157	- 1,635
125	AIR TRAFFIC CONTROL	3,511	3,511	.....
126	LIGHT TACTICAL WHEELED VEHICLES	1,976	4,265	+ 2,289
127	ARMORED SYSTEMS MODERNIZATION (ASM)—ENG DEV	135,488	128,938	- 6,550
128	NIGHT VISION SYSTEMS—ENG DEV	61,445	55,277	- 6,168
129	COMBAT FEEDING, CLOTHING, AND EQUIPMENT	2,814	2,814	.....
130	NON—SYSTEM TRAINING DEVICES—ENG DEV	28,036	28,036	.....
131	AIR DEFENSE COMMAND, CONTROL AND INTELLIGENCE— ENG DEV	43,651	51,651	+ 8,000
132	CONSTRUCTIVE SIMULATION SYSTEMS DEVELOPMENT	10,150	10,150	.....
133	AUTOMATIC TEST EQUIPMENT DEVELOPMENT	5,578	5,578	.....
134	DISTRIBUTIVE INTERACTIVE SIMULATIONS (DIS)—ENG DEV ..	7,892	7,892	.....
135	BRILLIANT ANTI—ARMOR SUBMUNITION (BAT)	24,975	24,975	.....
136	COMBINED ARMS TACTICAL TRAINER (CATT) CORE	3,568	3,568	.....
137	BRIGADE ANALYSIS, INTEGRATION AND EVALUATION	19,268	19,268	.....
138	WEAPONS AND MUNITIONS—ENG DEV	265,811	255,661	- 10,150
139	LOGISTICS AND ENGINEER EQUIPMENT—ENG DEV	49,694	48,840	- 854
140	COMMAND, CONTROL, COMMUNICATIONS SYSTEMS—ENG DEV	11,079	11,079	.....
141	MEDICAL MATERIEL/MEDICAL BIOLOGICAL DEFENSE EQUIP- MENT—ENG DEV	49,870	52,870	+ 3,000
142	LANDMINE WARFARE/BARRIER—ENG DEV	9,589	9,589	.....
143	ARMY TACTICAL COMMAND & CONTROL HARDWARE & SOFT- WARE	162,513	138,174	- 24,339

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
144	RADAR DEVELOPMENT	109,259	109,259	.....
145	GENERAL FUND ENTERPRISE BUSINESS SYSTEM (GFEB)S	21,201	16,201	- 5,000
146	FIREFINDER	20,008	20,008	.....
147	SOLDIER SYSTEMS—WARRIOR DEM/VAL	6,534	6,534	.....
148	SUITE OF SURVIVABILITY ENHANCEMENT SYSTEMS -EMD	82,459	59,872	- 22,587
149	ARTILLERY SYSTEMS—EMD	11,611	11,611	.....
150	INFORMATION TECHNOLOGY DEVELOPMENT	142,678	128,215	- 14,463
151	INTEGRATED PERSONNEL AND PAY SYSTEM—ARMY (IPPS-A)	115,286	115,286	.....
152	ARMORED MULTI-PURPOSE VEHICLE (AMPV)	96,594	88,594	- 8,000
154	JOINT TACTICAL NETWORK CENTER (JTNC)	16,264	16,264	.....
155	JOINT TACTICAL NETWORK (JTN)	31,696	31,696	.....
157	GROUND-BASED OPERATIONAL SURVEILLANCE SYSTEM— EXPENDITARY (GBOSS-E)	5,976	5,976	.....
159	COMMON INFRARED COUNTERMEASURES (CIRCM)	23,321	28,321	+ 5,000
161	NUCLEAR BIOLOGICAL CHEMICAL RECONNAISSANCE VEHICLE (NBCRV) SENSOR SUITE	4,846	4,846	.....
162	DEFENSIVE CYBER TOOL DEVELOPMENT	28,544	15,749	- 12,795
163	TACTICAL NETWORK RADIO SYSTEMS (LOW-TIER)	28,178	21,539	- 6,639
164	CONTRACT WRITING SYSTEM	22,860	22,860	.....
166	AIRCRAFT SURVIVABILITY DEVELOPMENT	35,893	35,893	.....
167	INDIRECT FIRE PROTECTION CAPABILITY INC 2—BLOCK 1	235,770	161,968	- 73,802
168	GROUND ROBOTICS	13,710	12,510	- 1,200
169	EMERGING TECHNOLOGY INITIATIVES	294,739	294,739	.....
170	MEDICAL PRODUCTS AND SUPPORT SYSTEMS DEVELOPMENT	954	954	.....
171	ARMY SYSTEM DEVELOPMENT & DEMONSTRATION	150,201	150,201	.....
172	SMALL UNMANNED AERIAL VEHICLE (SUAV) (65)	5,999	5,999	.....
174	JOINT AIR-TO-GROUND MISSILE (JAGM)	8,891	7,891	- 1,000
175	ARMY INTEGRATED AIR AND MISSILE DEFENSE (AIAMD)	193,929	213,929	+ 20,000
176	MANNED GROUND VEHICLE	327,732	123,852	- 203,880
177	NATIONAL CAPABILITIES INTEGRATION (MIP)	7,670	7,670	.....
178	JOINT LIGHT TACTICAL VEHICLE (JLTV) ENGINEERING AND MANUFACTURING DEVELOPMENT	1,742	1,742	.....
179	AVIATION GROUND SUPPORT EQUIPMENT	1,467	1,467	.....
180	TROJAN—RH12	3,451	3,451	.....
183	ELECTRONIC WARFARE DEVELOPMENT	55,855	55,855	.....
	TOTAL, ENGINEERING & MANUFACTURING DEVELOP- MENT	3,199,798	2,827,004	- 372,794
	RDT&E MANAGEMENT SUPPORT			
185	THREAT SIMULATOR DEVELOPMENT	14,515	42,015	+ 27,500
186	TARGET SYSTEMS DEVELOPMENT	10,668	35,668	+ 25,000
187	MAJOR T&E INVESTMENT	106,270	106,270	.....
188	RAND ARROYO CENTER	13,481	13,481	.....
189	ARMY KWAJALEIN ATOLL	231,824	231,824	.....
190	CONCEPTS EXPERIMENTATION PROGRAM	54,898	54,898	.....
192	ARMY TEST RANGES AND FACILITIES	350,359	384,359	+ 34,000
193	ARMY TECHNICAL TEST INSTRUMENTATION AND TARGETS	48,475	78,475	+ 30,000
194	SURVIVABILITY/LETHALITY ANALYSIS	36,001	36,001	.....
195	AIRCRAFT CERTIFICATION	2,736	2,736	.....
196	METEOROLOGICAL SUPPORT TO RDT&E ACTIVITIES	6,488	6,488	.....
197	MATERIEL SYSTEMS ANALYSIS	21,859	21,859	.....
198	EXPLOITATION OF FOREIGN ITEMS	7,936	7,936	.....
199	SUPPORT OF OPERATIONAL TESTING	54,470	54,470	.....
200	ARMY EVALUATION CENTER	63,141	63,141	.....
201	ARMY MODELING AND SIMULATION X—CMD COLLABORATION AND INTEG	2,572	2,572	.....
202	PROGRAMWIDE ACTIVITIES	87,472	87,472	.....
203	TECHNICAL INFORMATION ACTIVITIES	26,244	26,244	.....
204	MUNITIONS STANDARDIZATION, EFFECTIVENESS AND SAFETY	40,133	47,500	+ 7,367
205	ENVIRONMENTAL QUALITY TECHNOLOGY MGMT SUPPORT	1,780	1,780	.....
206	ARMY DIRECT REPORT HEADQUARTERS—R&D—MHA	55,045	55,045	.....
208	RONALD REAGAN BALLISTIC MISSILE DEFENSE TEST SITE	71,306	71,306	.....
209	COUNTERINTEL AND HUMAN INTEL MODERNIZATION	1,063	1,063	.....

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
210	MEDICAL PROGRAM—WIDE ACTIVITIES	19,891	19,891	.....
211	ASSESSMENTS AND EVALUATIONS CYBER VULNERABILITIES	4,496	6,496	+ 2,000
	TOTAL, RDT&E MANAGEMENT SUPPORT	1,333,123	1,458,990	+ 125,867
	OPERATIONAL SYSTEMS DEVELOPMENT			
214	MLRS PRODUCT IMPROVEMENT PROGRAM	10,157	10,157	.....
216	ANTI-TAMPER TECHNOLOGY SUPPORT	8,682	8,682	.....
217	WEAPONS AND MUNITIONS PRODUCT IMPROVEMENT PROGRAMS	20,409	20,409	.....
219	LONG RANGE PRECISION FIRES (LRPF)	122,733	92,733	— 30,000
221	BLACKHAWK PRODUCT IMPROVEMENT PROGRAM	11,236	8,711	— 2,525
222	CHINOOK PRODUCT IMPROVEMENT PROGRAM	46,091	51,091	+ 5,000
224	IMPROVED TURBINE ENGINE PROGRAM	249,257	245,509	— 3,748
225	AVIATION ROCKET SYSTEM PRODUCT IMPROVEMENT AND DEVELOPMENT	17,155	17,155	.....
226	UNMANNED AIRCRAFT SYSTEM UNIVERSAL PRODUCTS	7,743	10,743	+ 3,000
227	APACHE FUTURE DEVELOPMENT	77,177	50,319	— 26,858
228	INTEL CYBER DEVELOPMENT	14,652	14,652	.....
229	ARMY OPERATIONAL SYSTEMS DEVELOPMENT	35,851	35,851	.....
230	FAMILY OF BIOMETRICS	1,324	1,324	.....
231	PATRIOT PRODUCT IMPROVEMENT	187,840	185,840	— 2,000
232	JOINT AUTOMATED DEEP OPERATION COORDINATION SYSTEM (JADOCs)	44,691	44,691	.....
233	COMBAT VEHICLE IMPROVEMENT PROGRAMS	268,919	235,514	— 33,405
234	155MM SELF-PROPELLED HOWITZER IMPROVEMENTS	427,254	233,554	— 193,700
235	AIRCRAFT MODIFICATIONS/PRODUCT IMPROVEMENT PROGRAMS	11,688	11,688	.....
236	AIRCRAFT ENGINE COMPONENT IMPROVEMENT PROGRAM	80	80	.....
237	DIGITIZATION	4,516	4,516	.....
238	MISSILE/AIR DEFENSE PRODUCT IMPROVEMENT PROGRAM	1,288	1,288	.....
239	OTHER MISSILE PRODUCT IMPROVEMENT	79,424	13,587	— 65,837
243	ENVIRONMENTAL QUALITY TECHNOLOGY—OPERATIONAL SYSTEM	259	259	.....
244	LOWER TIER AIR AND MISSILE DEFENSE (AMD) SYSTEM	166	166	.....
245	GUIDED MULTIPLE-LAUNCH ROCKET SYSTEM (GMLRS)	75,575	75,575	.....
246	JOINT TACTICAL GROUND SYSTEM	9,510	9,510	.....
249	INFORMATION SYSTEMS SECURITY PROGRAM	29,270	23,097	— 6,173
250	GLOBAL COMBAT SUPPORT SYSTEM	86,908	66,097	— 20,811
251	SATCOM GROUND ENVIRONMENT (SPACE)	18,684	18,684	.....
256	INTEGRATED BROADCAST SERVICE (IBS)	467	467	.....
257	TACTICAL UNMANNED AERIAL VEHICLES	4,051	4,051	.....
258	AIRBORNE RECONNAISSANCE SYSTEMS	13,283	13,283	.....
259	DISTRIBUTED COMMON GROUND/SURFACE SYSTEMS	47,204	40,771	— 6,433
264	END ITEM INDUSTRIAL PREPAREDNESS ACTIVITIES	61,012	92,012	+ 31,000
	TOTAL, OPERATIONAL SYSTEMS DEVELOPMENT	1,994,556	1,642,066	— 352,490
267	DEFENSIVE CYBER—SOFTWARE PROTOTYPE DEVELOPMENT	46,445	51,710	+ 5,265
	TOTAL, SOFTWARE AND DIGITAL TECHNOLOGY PILOT PROGRAMS	46,445	51,710	+ 5,265
999	CLASSIFIED PROGRAMS	3,983	3,983	.....
	TOTAL, RESEARCH, DEVELOPMENT, TEST & EVALUATION, ARMY	12,587,343	12,812,686	+ 225,343

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
2	Defense Research Sciences	303,257	354,257	+ 51,000
	Program increase: Advanced hemostat products			+ 6,000
	Program increase: Artificial intelligence complex multi-material composites processing			+ 10,000
	Program increase: Cell-free expression for biomanufacturing			+ 10,000
	Program increase: Counter-UAS technology in arctic environments			+ 10,000
	Program increase: Multi-fuel hybrid propulsion for UAS ...			+ 15,000
12	Lethality Technology	42,425	59,925	+ 17,500
	Program increase: Advanced lethality concepts and analysis			+ 7,500
	Program increase: Hybrid additive manufacturing			+ 10,000
13	Army Applied Research	30,757	63,757	+ 33,000
	Program increase: Academic accelerator pilot program			+ 15,000
	Program increase: Catalyst			+ 10,000
	Program increase: Pathfinder			+ 8,000
14	Soldier Lethality Technology	125,435	138,935	+ 13,500
	Program increase: Advanced ballistics technology for personal protective systems			+ 4,000
	Program increase: Expeditionary Mobile base camp technology			+ 2,000
	Program increase: Harnessing emerging research opportunities to empower soldiers			+ 4,500
	Program increase: Rapidly deployable shelters			+ 3,000
15	Ground Technology	28,047	79,047	+ 51,000
	Program increase: Advanced polymers for force protection			+ 8,000
	Program increase: Cellulose nanocomposites research			+ 5,000
	Program increase: Center for research in extreme batteries			+ 10,000
	Program increase: Cold weather military research			+ 4,000
	Program increase: Earthen structures soil enhancement ...			+ 4,000
	Program increase: Environmental quality enhanced coatings			+ 5,000
	Program increase: Ice engineering research facility modernization			+ 5,000
	Program increase: Materials manufacturing processes			+ 10,000
16	Next Generation Combat Vehicle Technology	217,565	243,565	+ 26,000
	Program increase: Metal additive manufacturing			+ 10,000
	Program increase: Modeling and simulation			+ 10,000
	Program increase: Silicon carbide electronics research			+ 6,000
17	Network C3I Technology	114,404	159,904	+ 45,500
	Program increase: A-PNT distributed antennae			+ 20,000
	Program increase: Autonomous platform threat detection sensors			+ 6,000
	Program increase: Intelligent electronic protection technology			+ 2,500
	Program increase: Multi-UAS integrated ISR technology ...			+ 3,000
	Program increase: Mobile environmental contaminant sensors			+ 8,000
	Program increase: Unmanned sensors for biological and chemical hazards			+ 2,000
	Program increase: Urban subterranean mapping technology			+ 4,000
18	Long Range Precision Fires Technology	60,553	102,053	+ 41,500
	Program increase: Advanced materials for missile applications			+ 20,000
	Program increase: Novel printed armament components ...			+ 6,500
	Program increase: Phase changing hydrogen fuel program			+ 15,000
19	Future Vertical Lift Technology	96,484	145,484	+ 49,000
	Program increase: Advanced rotary wing materials and structures			+ 5,000
	Program increase: Adaptive flight control technology			+ 4,000
	Program increase: High density eVTOL power source			+ 15,000

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
	Program increase: Lightweight hybrid composite medium caliber barrels			+ 20,000
	Program increase: Technology transfer and innovation			+ 5,000
20	Air and Missile Defense Technology	56,298	95,698	+ 39,400
	Program increase: Army missile supply chain risk management			+ 15,000
	Program increase: Close combat high energy laser technology			+ 8,500
	Program increase: Countermeasures based on artificial intelligence enabled material analysis and design			+ 6,000
	Program increase: Cyber resiliency in weapon systems			+ 1,500
	Program increase: HEL and optical technology integration			+ 8,400
42	Medical Technology	95,496	97,496	+ 2,000
	Program increase: Safety and performance of female warfighters in extreme heat			+ 2,000
44	Medical Advanced Technology	38,896	53,896	+ 15,000
	Program increase: Burn care training curriculum			+ 5,000
	Program increase: Peer-reviewed military burn research			+ 10,000
54	Soldier Lethality Advanced Technology	109,608	119,608	+ 10,000
	Program increase: Advanced technology for maneuver support and protection			+ 10,000
55	Ground Advanced Technology	14,795	105,595	+ 90,800
	Program increase: Accelerator technology for ground maneuver			+ 5,000
	Program increase: Anticipating threats to natural systems			+ 6,000
	Program increase: Army visual and tactical arctic reconnaissance			+ 2,000
	Program increase: Autonomous combat engineering solutions			+ 5,500
	Program increase: Coastal terrain hazard research			+ 8,000
	Program increase: Cold weather research station			+ 2,000
	Program increase: Environmental sensors for explosives			+ 3,000
	Program increase: Expeditionary deployment of fully sustainable utility			+ 10,000
	Program increase: Graphene research			+ 5,000
	Program increase: Heavy load simulator			+ 1,000
	Program increase: Impacts of soil structures on hydrology			+ 4,000
	Program increase: Information technology for bridge sustainment			+ 5,000
	Program increase: Materials and manufacturing technology for cold environments			+ 4,000
	Program increase: Military engineering technology for in-field waste			+ 2,000
	Program increase: Operational energy research			+ 1,300
	Program increase: Research facility modernization			+ 6,000
	Program increase: Robotic construction equipment			+ 5,000
	Program increase: Robotic 4-D printing of geopolymer-based composites for extreme environments			+ 2,000
	Program increase: S-UAS cyber threat management			+ 7,500
	Program increase: Sub-surface infrastructure in arctic environments			+ 1,000
	Program increase: Temperature insensitive high-energy density lithium-ion batteries			+ 2,500
	Program increase: Vehicle performance reliability and operations			+ 3,000
64	High Performance Computing Modernization Program	188,024	228,024	+ 40,000
	Program increase			+ 40,000
65	Next Generation Combat Vehicle Advanced Technology	199,358	244,358	+ 45,000
	Program increase: 10X technology demonstration			+ 8,000
	Program increase: Additive manufacturing for jointless Hull			+ 10,000
	Program increase: HMMWV augmented reality HUD			+ 5,000
	Program increase: HMMWV automotive enhancements			+ 5,000
	Program increase: HMMWV autonomy			+ 3,000

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
	Program increase: Operator-in-the-loop virtual and physical prototyping			+ 4,000
	Program increase: Virtual and physical prototyping			+ 10,000
66	Network C3I Advanced Technology	158,608	192,908	+ 34,300
	Program increase: Advanced materials and technologies for command post modernization			+ 10,000
	Program increase: Advanced materials for resilient sensors			+ 8,000
	Program increase: Assured position, navigation, and timing technology			+ 6,300
	Program increase: Tactical geospatial information capabilities			+ 10,000
67	Long Range Precision Fires Advanced Technology	121,060	156,060	+ 35,000
	Program increase: Rapid demonstration capability			+ 25,000
	Program increase: Tactical intercepting vehicle for access shaping			+ 10,000
68	Future Vertical Lift Advanced Technology	156,194	183,694	+ 27,500
	Program increase: Digital engineering demonstration			+ 8,000
	Program increase: Ferrium steels for improved drive systems			+ 5,000
	Program increase: Tethered UAS for all-terrain vehicles			+ 12,500
	Program increase: UAS fuel systems enhancements			+ 2,000
69	Air and Missile Defense Advanced Technology	58,130	150,130	+ 92,000
	Program increase: Advanced explosion resistant window systems			+ 5,000
	Program increase: Enterprise demonstration prototyping			+ 7,000
	Program increase: HEL risk reduction			+ 50,000
	Program increase: HEL system characterization lab			+ 22,000
	Program increase: Silicon carbide power electronics packaging			+ 8,000
78	Army Missile Defense Systems Integration	11,062	117,312	+ 106,250
	Program increase: Advanced technology end-to-end testbed			+ 10,500
	Program increase: Air and missile system critical technology development			+ 12,000
	Program increase: Conventional mission capabilities			+ 10,250
	Program increase: Hot air tunnel and MESO technologies for hypersonics			+ 47,000
	Program increase: Integrated environmental control and power			+ 16,000
	Program increase: Pragmatic artificial intelligence and new technology			+ 10,500
80	Air and Missile Defense Systems Engineering	26,482	48,982	+ 22,500
	Program increase: Cyber and supply chain resiliency			+ 22,500
81	Landmine Warfare and Barrier—Adv Dev	64,092	52,172	- 11,920
	Restoring acquisition accountability: Interim top attack contract delay			- 7,686
	Improving funds management: Interim top attack support costs carryover			- 4,234
83	Tank and Medium Caliber Ammunition	92,753	83,392	- 9,361
	Improving funds management: C-DAEM engineering support carryover			- 1,000
	Restoring acquisition accountability: Cased supercharge development ahead of need			- 8,361
84	Armored System Modernization—Adv Dev	151,478	144,214	- 7,264
	Improving funds management: Experimental prototyping costs excess to need			- 15,464
	Program increase: Next generation electrified transmission			+ 8,200
86	Tactical Electronic Surveillance System—Adv Dev	194,775	176,991	- 17,784
	Restoring acquisition accountability: MDSS sensor development contract ahead of need			- 12,375
	Improving funds management: TITAN prototype development excess to need			- 5,409

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
87	Night Vision Systems Advanced Development	24,316	14,316	-10,000
	Improving funds management: Heads up display product development previously funded			-10,000
88	Environmental Quality Technology—Dem/Val	13,387	16,387	+3,000
	Program increase: Biopolymers for military infrastructure			+3,000
90	Aviation—Adv Dev	647,937	712,946	+65,009
	Improving funds management: FLRAA engineering services carryover			-7,078
	Improving funds management: FLRAA program management and acquisition support carryover			-4,413
	Improving funds management: FARA phase II OTAP excess to need			-14,000
	Program increase: FLRAA capabilities development and integration			+90,500
91	Logistics and Engineer Equipment—Adv Dev	4,761	8,761	+4,000
	Program increase: Lightweight portable power generation			+4,000
92	Medical Systems—Adv Dev	28,520	34,020	+5,500
	Program increase: Composite shelter			+5,500
93	Soldier Systems—Advanced Development	26,138	24,138	-2,000
	Improving funds management: Soldier protection system development and integration carryover			-2,000
94	Robotics Development	121,207	101,667	-19,540
	Restoring acquisition accountability: Phase III prototype ahead of need			-19,540
96	Electronic Warfare Technology Maturation [MIP]	22,840	15,034	-7,806
	Improving funds management: Terrestrial layer system excess to need			-7,806
101	Lower Tier Air Missile Defense (LTAMD) Sensor	376,373	322,543	-53,830
	Improving funds management: P31 test asset incremental funding early to need			-33,250
	Improving funds management: Test and evaluation prior year carryover			-15,000
	Improving funds management: Product development and SETA carryover			-5,580
102	Technology Maturation Initiatives	156,834	128,462	-28,372
	Restoring acquisition accountability: Operational fires requirement			-28,372
106	Assured Positioning, Navigation and Timing (PNT)	128,125	120,364	-7,761
	Maintain program affordability: Mounted APNT new equipment training—unjustified request			-667
	Maintain program affordability: Mounted APNT platform integration—unjustified growth			-7,094
107	Synthetic Training Environment Refinement & Prototyping	129,547	81,421	-48,126
	Restoring acquisition accountability: SiVT excess to need			-13,626
	Restoring acquisition accountability: TSS/TMT development delays			-14,500
	Restoring acquisition accountability: OWT ahead of need			-20,000
109	Hypersonics	801,417	861,417	+60,000
	Program increase: Hypersonic and strategic materials and structures			+10,000
	Program increase: Hypersonic glidebody risk reduction			+50,000
113	Mobile Medium Range Missile		18,000	+18,000
	Program increase			+18,000
119	Electronic Warfare Development	62,426	55,378	-7,048
	Improving funds management: MFEW—AL EMD phase 2 previously funded			-7,048
121	Infantry Support Weapons	91,574	87,837	-3,737
	Restoring acquisition accountability: NGSW special purpose projectile development delay			-8,804
	Improving funds management: Overestimation of NGSW engineering support			-2,395
	Improving funds management: Overestimation of soldier protective equipment product systems engineering support			-1,538

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
	Program increase: Soldier enhancement program			+ 9,000
123	JAVELIN	7,493	6,257	- 1,236
	Restoring acquisition accountability: Lightweight CLU development excess to need			- 1,236
124	Family of Heavy Tactical Vehicles	24,792	23,157	- 1,635
	Improving funds management: Overestimation of EHETS prototypes			- 1,635
126	Light Tactical Wheeled Vehicles	1,976	4,265	+ 2,289
	Transfer: Army-requested transfer from Other Procurement, Army line 5 for Infantry Squad Vehicle			+ 2,289
127	Armored Systems Modernization (ASM)—Eng Dev	135,488	128,938	- 6,550
	Improving funds management: Performance test and evaluation carryover			- 6,550
128	Night Vision Systems—Eng Dev	61,445	55,277	- 6,168
	Improving funds management: Heads up display product development previously funded			- 1,168
	Restoring acquisition accountability: FWS-S contract development excess to need			- 5,000
131	Air Defense Command, Control and Intelligence—Eng Dev	43,651	51,651	+ 8,000
	Program increase: Mobile Camouflage net systems			+ 8,000
138	Weapons and Munitions—Eng Dev	265,811	255,661	- 10,150
	Restoring acquisition accountability: .50 caliber all-purpose tactical cartridge MDD delay			- 4,250
	Improving funds management: Reduced range ammunition support carryover			- 1,000
	Improving funds management: NGSW support, test and evaluation carryover			- 3,000
	Maintain program affordability: Improved multi-option fuze engineering support—unjustified growth			- 1,900
139	Logistics and Engineer Equipment—Eng Dev	49,694	48,840	- 854
	Restoring acquisition accountability: MSV(N) feasibility study ahead of need			- 1,474
	Restoring acquisition accountability: HIPPO PQT and LUT request ahead of need			- 600
	Restoring acquisition accountability: E2FDS request ahead of need			- 1,280
	Program increase: Health usage monitoring system			+ 2,500
141	Medical Materiel/Medical Biological Defense Equipment—Eng Dev	49,870	52,870	+ 3,000
	Program increase: Wearable medical device for TBI prevention			+ 3,000
143	Army Tactical Command & Control Hardware & Software	162,513	138,174	- 24,339
	Restoring acquisition accountability: Rephasing of MCE v3.2 development			- 7,909
	Restoring acquisition accountability: Reduce CPI2 Inc 1 and Inc 2 concurrency			- 12,500
	Restoring acquisition accountability: TROPO IOT&E funded ahead of need			- 3,930
145	General Fund Enterprise Business System [GFEBs]	21,201	16,201	- 5,000
	Maintain program affordability: Unjustified growth for functional enhancements			- 5,000
148	Suite of Survivability Enhancement Systems—EMD	82,459	59,872	- 22,587
	Improving funds management: Logistics development excess to need			- 7,617
	Restoring acquisition accountability: VPS development and integration delays			- 14,970
150	Information Technology Development	142,678	128,215	- 14,463
	Improving funds management: AIE wave 1 carryover			- 6,881
	Restoring acquisition accountability: ATIS release 1 delays			- 15,000
	Program increase: Installation access control technology			+ 10,500
	Insufficient budget justification: HRC accessioning IT development unjustified request			- 3,082
152	Armored Multi-Purpose Vehicle (AMPV)	96,594	88,594	- 8,000
	Restoring acquisition accountability: Test delays			- 8,000

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
159	Common Infrared Countermeasures (CIRCM)	23,321	28,321	+ 5,000
	Program increase: Aviation artificial intelligence virtual training environment			+ 5,000
162	Defensive CYBER Tool Development	28,544	15,749	- 12,795
	Improving funds management: Cyber SU development excess to need			- 12,795
163	Tactical Network Radio Systems (Low-Tier)	28,178	21,539	- 6,639
	Restoring acquisition accountability: Manpack follow-on testing ahead of need			- 6,639
167	Indirect Fire Protection Capability Inc 2—Block 1	235,770	161,968	- 73,802
	Restoring acquisition accountability: Army-identified excess to need due to revised acquisition strategy			- 47,762
	Maintain program affordability: Enduring technical support			- 15,000
	Restoring acquisition accountability: Enduring solution interceptor cost adjustment			- 11,040
168	Ground Robotics	13,710	12,510	- 1,200
	Reduce duplication: CRS(I) program management costs funded in procurement			- 300
	Restoring acquisition accountability: CRS(I) PQT and LUT previously funded			- 200
	Improving funds management: S-MET program management transition to procurement			- 700
174	Joint Air-to-Ground Missile [JAGM]	8,891	7,891	- 1,000
	Improving funds management: OGA carryover			- 1,000
175	Army Integrated Air and Missile Defense [AIAMD]	193,929	213,929	+ 20,000
	Program increase: Accelerated integration to counter emerging threats			+ 20,000
176	Manned Ground Vehicle	327,732	123,852	- 203,880
	Restoring acquisition accountability: Army-identified excess to need due to revised OMFV acquisition strategy			- 83,232
	Restoring acquisition accountability: OMFV phase 2 engineering funding ahead of need			- 83,400
	Restoring acquisition accountability: OMFV phase 2 SEPM funding ahead of need			- 22,350
	Restoring acquisition accountability: OMFV logistics product development ahead of need			- 1,200
	Improving funds management: OMFV SBIR/STTR excess to need			- 13,698
185	Threat Simulator Development	14,515	42,015	+ 27,500
	Program increase: Cyber threat and vulnerability assessments			+ 3,750
	Program increase: Cybersecurity operations center			+ 20,000
	Program increase: Threat cyberspace operations			+ 3,750
186	Target Systems Development	10,668	35,668	+ 25,000
	Program increase: UAS swarm threat mitigation			+ 25,000
192	Army Test Ranges and Facilities	350,359	384,359	+ 34,000
	Program increase: Directed energy test infrastructure			+ 9,000
	Program increase: Distributed environment for system-of-system cybersecurity testing			+ 25,000
193	Army Technical Test Instrumentation and Targets	48,475	78,475	+ 30,000
	Program increase: Space and missile cyber security			+ 30,000
204	Munitions Standardization, Effectiveness and Safety	40,133	47,500	+ 7,367
	Improving funds management: Manufacturing technology for industrial base transformation carryover			- 1,000
	Improving funds management: Conventional ammunition demilitarization carryover			- 1,633
	Program increase: Foamable celluloid materials			+ 5,000
	Program increase: Neutron radiography technology			+ 5,000
211	Assessments and Evaluations Cyber Vulnerabilities	4,496	6,496	+ 2,000
	Program increase: Cyber vulnerability assessment			+ 2,000
219	Long Range Precision Fires (LRPF)	122,733	92,733	- 30,000
	Restoring acquisition accountability: Single vendor follow-on TMRR			- 30,000

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
221	Blackhawk Product Improvement Program	11,236	8,711	-2,525
	Restoring acquisition accountability: MEDEVAC MEP test and evaluation ahead of need			-2,525
222	Chinook Product Improvement Program	46,091	51,091	+5,000
	Program increase: Carbon composite lightweighting			+5,000
224	Improved Turbine Engine Program	249,257	245,509	-3,748
	Maintain program affordability: Unjustified matrixed engineering support growth			-3,748
226	Unmanned Aircraft System Universal Products	7,743	10,743	+3,000
	Program increase: Mode 5 micro IFF capability			+3,000
227	Apache Future Development	77,177	50,319	-26,858
	Restoring acquisition accountability: SPIKE NLOS efforts ahead of need			-26,858
231	Patriot Product Improvement	187,840	185,840	-2,000
	Improving funds management: PMO carryover			-2,000
233	Combat Vehicle Improvement Programs	268,919	235,514	-33,405
	Restoring acquisition accountability: Bradley test support previously funded			-3,440
	Improving funds management: Abrams SEpv4/ECP 1B carryover			-19,458
	Improving funds management: Stryker carryover			-10,507
234	155mm Self-Propelled Howitzer Improvements	427,254	233,554	-193,700
	Restoring acquisition accountability: ERCA increment 2 reprioritization			-193,700
239	Other Missile Product Improvement Programs	79,424	13,587	-65,837
	Restoring acquisition accountability: CD-ATACMS program terminated			-62,440
	Restoring acquisition accountability: TOW Prototype and design engineering concurrency			-3,397
249	Information Systems Security Program	29,270	23,097	-6,173
	Restoring acquisition accountability: NGLD-M contract delay			-6,173
250	Global Combat Support System	86,908	66,097	-20,811
	Maintain program affordability: Disconnected ground operations unjustified growth			-7,728
	Maintain program affordability: GCSS-A Inc 2 unjustified growth			-13,083
259	Distributed Common Ground/Surface Systems	47,204	40,771	-6,433
	Maintain program affordability: Unjustified program management growth			-1,910
	Improving funds management: Ground station modernization contract award date			-4,523
264	End Item Industrial Preparedness Activities	61,012	92,012	+31,000
	Program increase: Advanced manufacturing cell for missile fins			+5,000
	Program increase: Advanced manufacturing technology			+5,000
	Program increase: Glass separators for lithium batteries			+4,000
	Program increase: Scalability of functional fabric manufacturing			+5,000
	Program increase: Smart manufacturing of engineered fabrics			+7,000
	Program increase: Tungsten manufacturing affordability initiative for armaments			+5,000
267	Defensive CYBER—Software Prototype Development	46,445	51,710	+5,265
	Restoring acquisition accountability: Tool suite delays			-6,735
	Transfer: Army-requested transfer from Other Procurement, Army line 53 for program management			+12,000

Army Unmanned Aerial Systems.—Increasing reliance on unmanned aerial systems [UAS] across the U.S. military services requires a strong domestic industrial base and supply chain to develop and produce next generation unmanned technological capa-

bilities. The Committee supports efforts by the Army to address the most critical technology needs by improving the performance, reliability, and affordability of UAS through the development of novel multi-fuel tolerant small vehicle power that will end reliance on foreign propulsion systems. Advancements in UAS operational cycles, size, weight, and power signatures, and range serve to enable multi-domain operations and support Army modernization priorities, specifically in future vertical lift, next generation combat vehicle, and soldier lethality. To ensure that development of hybrid propulsion systems for future UAS incorporates cutting-edge research and development, the Committee encourages the Director, Combat Capabilities Development Command Army Research Laboratory to assess the viability of a center for UAS propulsion that leverages existing partnership with universities, commercial industry, and Army components.

Novel Printed Armament Components.—The Committee recognizes investments made by the Department of the Army to provide advanced hybrid technologies for armaments that offer lethality overmatch against adversaries. Maintaining a strong armaments technology base will require continued investments to design, develop, manufacture, and integrate new processes and applications for current and future armament and munition systems. The Committee encourages the Secretary of the Army to continue the development of enabling printed electronics energetics and power sources for munitions.

Advanced Manufacturing Materials Process Initiative.—The Advanced Manufacturing, Materials, and Processes program located within the Center for Agile Materials Manufacturing Science at the Army Research Laboratory enables advances in additive manufacturing to create next-generation manufacturing breakthroughs. Continued investment in tool and material process technology development accelerates the ability of the Army to enhance its industrial base capabilities to meet the Army's six modernization priorities. The Committee supports these innovations to reduce lifecycle costs and enhance capabilities for the warfighter.

Resiliency Platform for Extreme Cold Regions.—The Committee notes the importance of operating in extreme cold regions and the effects that weather in such regions can have on military infrastructure and equipment. The Committee believes a need exists to increase the Army's ability to map remote extreme cold regions and reduce the deterioration of infrastructure due to the harsh environmental conditions. Therefore, the Committee supports research in developing a resiliency platform that will incorporate risk assessment, ground-based measurements, bioinspired sensors, geospatial mapping, and intelligent prediction capabilities to help identify landing locations for future vertical lift platforms, optimal route selection for next generation autonomous combat vehicles, and advances in infrastructure resiliency.

Verification of End-Products.—Advances in additive manufacturing technologies and the growing use of these capabilities within the Department of the Army have created a need for the development of technologies that can verify and validate the end-product produced through additive manufacturing techniques. The Committee encourages the Secretary of the Army to identify and invest

in technologies that can validate the specifications of end-items produced through additive manufacturing, as well as technologies that increase the cyber-resiliency of additive manufacturing systems.

Harnessing Emerging Research Opportunities to Empower Soldiers Program.—The Committee is aware of the work being done by the Army in improving the protection, survivability, mobility, and combat effectiveness of our nation's soldier. Key to these efforts is continued research in areas of advanced ballistic polymers for body armor, fibers to make uniforms more fire resistant, and lightweight structures for advanced shelters. In order to ensure the Army remains at the cutting edge of technology in these critical areas, the Committee recommends an additional \$4,500,000 above the budget request for the harnessing emerging research opportunities to empower soldiers program.

Ice Engineering Research.—The Committee encourages the Secretary of the Army to continue to pursue avenues to maintain and increase the nation's capacity to conduct ice engineering research. This capability has proven to support the entire nation with improved safety, better and more efficient construction techniques, and improved mobility in extreme cold environments. The Committee recommends an additional \$6,000,000 to modernize the capability to conduct research in extreme cold environments.

Extreme Battery Research.—The Committee recognizes the need for increasingly reliable, safe, and portable batteries that can perform in extreme battlefield conditions, including extreme temperatures and long duration. Moreover, soldiers need batteries that can withstand ballistic penetration without generating a fire or explosion. To achieve this goal, the Committee encourages the Army Research Lab to continue to work with university consortia to develop experimental prototypes of new non-flammable battery technology, such as those based on solid-state materials. To further this effort, the Committee recommends an additional \$5,000,000 for the Army to collaborate with institutions of higher education on batteries for extreme performance, environments, and applications.

Precision Fires and Air and Missile Defense Development.—The Committee notes the importance of reducing the time for development, testing, and acquisition particularly in the Long Range Precision Fires and Air and Missile Defense portfolios. Therefore, in support of the Army's modernization priorities, the Committee encourages the Secretary of the Army to assess the viability of a rapid and innovative approach to development and acquisition, akin to the United States Special Operations Command's SOFWERX program.

Counter-Unmanned Aerial Systems.—The Committee notes that the Department of the Army has been designated as the executive agent for the Joint Counter-Unmanned Aerial Systems [C-UAS] office assuming responsibility for the development of enduring joint solutions to address the C-UAS threat. The Committee directs the Secretary of the Army to provide a report to the congressional defense committees, not later than 120 days after the enactment of this act, that details the Army's management plan and assessment of C-UAS requirements. This report shall include, but is not limited to: a list of validated requirements; a detailed listing of related

acquisition programs across the department; resourcing requirements; research and development priorities; an assessment of the need for a C-UAS center of excellence; and the organization, structure, and responsibilities of the Joint C-UAS office.

Water Quality and Resiliency Technologies.—The Committee supports efforts by the Department of the Army to address military requirements related to freshwater quality, security, and management, but is concerned that the level of investment in water research and technology development has not kept pace with the increasing level of risk to our military personnel. The Committee encourages the Secretary of the Army to invest in technology that addresses water efficiency, quality, and resilience priorities, including specific priorities related to new water and wastewater treatment technologies, wastewater energy recovery methods, biofilms, the development of new sensors for water quality analysis, and new modeling and analysis techniques.

High Performance Computing Modernization Program.—The Committee notes that responsibility for the High Performance Computing Modernization Program [HPCMP] was transferred to the Army in fiscal year 2012 with a requested funding level of \$183,150,000. Almost a decade later, the fiscal year 2021 President's budget request includes only \$188,024,000 for HPCMP. This level of investment is significantly less than it would be if annual inflationary adjustments were applied to the program, even without program growth. The Committee believes that this level of investment is severely inadequate given the program's importance across the Department of Defense and recommends an additional \$40,000,000.

Originally focused on support to science and technology efforts, HPCMP now supports an expansive and ever-growing set of competencies, including digital engineering, virtual prototyping, and virtual testing. Therefore, the Committee directs the Secretary of Defense, in consultation with the Secretary of the Army, to perform a full review of the HPCMP program that includes, but is not limited to: an assessment of the HPCMP mission and requirements over time; an analysis of investment levels over time compared to the full requirement; a determination of the adequacy of historical investment; an analysis of the suitability of the current organizational structure within the Department; and a modernization strategy. The Secretary of Defense shall submit his findings in a report to the congressional defense committees not later than 120 days after enactment of this act.

Small Squad Robotics Experimentation.—The Committee is encouraged by the progress made in previous Squad X experiments to integrate unmanned systems, artificial intelligence, and squad units' battlefield operations to enhance our warfighters' effectiveness and lethality. The Committee notes that close coordination among the Joint Force, industry, and our nation's leading academic institutions has made this progress possible. The Committee believes that Squad X is vital to ensure the continued dominance of dismounted infantry squads through its efforts to design, develop, and validate autonomous system prototypes that will increase the squads' capabilities in four distinct technology areas, including precision engagement, non-kinetic engagement, squad sensing, and

squad autonomy. Therefore, the Committee recommends an additional \$8,000,000 to support continued demonstrations. Further, the Committee encourages the Director, Defense Advanced Research Projects Agency, in coordination with the Assistant Secretary of the Army for Acquisition, Logistics, and Technology; the Commanding General, Army Future's Command; and the Commanding General, Marine Corps Combat Development Command, to continue periodic field experiments with the goal of transferring technology to the services for advanced development.

Carbon Fiber Wheels and Graphitic Foam.—The Committee is encouraged by the Army's Combat Capabilities Development Command [CCDC] Ground Vehicle Systems Center's [GVSC] decision to increase its application of carbon fiber composite wheels and graphitic carbon foam for the Next Generation Combat Vehicle programs. The Committee notes that carbon fiber wheels can reduce vehicle weight, reduce fuel consumption, increase payload capacity, and extend the service life of platforms employing the technology. The Committee also notes that graphitic carbon foam can reduce vehicle signature, improve heat dissipation, and protect against blast energy, directed energy, and electromagnetic pulse threats. The Committee encourages the Director, CCDC GVSC to continue research and development in these technologies.

Soldier Enhancement Program.—The Committee is concerned that the fiscal year 2021 President's budget request eliminates the Soldier Enhancement Program [SEP]. Since its establishment by Congress in 1990, the program has served a unique and critical function in enabling the accelerated evaluation and procurement of off-the-shelf items that have the potential to substantially improve weapons and support equipment, focused on critical warfighting functional areas of fires mission command, movement and maneuver, sustainability, and protection. The Committee believes that the soldier enhancement program is a low risk, low cost, high payoff investment that has demonstrated consistent success in close collaboration with industry to address mission-critical and training-critical soldier needs in a timely and cost-effective manner. The Committee is unaware of changes in operational or threat environments that would obviate the on-going need for this successful and critical capability. Therefore, the Committee provides an additional \$9,000,000 for SEP and directs the Secretary of the Army to preserve the Soldier Enhancement Program within the Program Executive Office Soldier and expects the Secretary of the Army to ensure that the program is fully funded in the fiscal year 2022 budget request.

Modeling and Simulation for Combat Vehicles.—The Committee recognizes the importance of modeling and simulation [M&S] activities in combat vehicle development. The commercial automotive industry allocates M&S resources in the early stages of developing a commercial vehicle prior to the development of actual prototypes prior to production. The Committee encourages the Secretary of the Army to adapt a similar approach to rapidly field technology with a clear understanding of the operational capability, which reduces development and lifecycle cost, and time of physical prototyping in the early phases of development. The Committee encourages the development of modern M&S tools, vehicle agnostic system integra-

tion labs, and an integrated collaborative environment, which enables rigorous M&S to inform requirements for subsystems to brigade combat team formations.

Emerging Technology Initiatives.—The Committee supports the Army’s Advanced Concepts program, managed by the Rapid Capabilities and Critical Technologies Office, in its pursuit of experimental prototyping and demonstration of selected technology through non-traditional engagements with industry by employing what it calls “innovation days”. The Committee recognizes that these types of direct engagements with industry are critical in identifying promising technologies and solutions to close capability gaps that would otherwise fall outside of traditional acquisition programs. The ability to be agile with resourcing these smaller prototyping efforts is crucial to the success of the program and does not lend itself to traditional itemized accounting in budget exhibits, as individual programs may be undefined at the time of the President’s budget submission. The Committee therefore recommends \$23,000,000, as requested in the fiscal year 2021 President’s budget submission, for the Army’s Advanced Concepts program. Further, beginning with the second quarter of fiscal year 2021, the Committee directs the Director, Hypersonics, Directed Energy, Space and Rapid Acquisition, to provide quarterly execution updates to the Committee on Appropriations of both the House and Senate. This report shall include, but is not limited to, a schedule of innovation days for the current fiscal year, a list of active projects selected for funding, a narrative description of each project, obligation and expenditure data for each project, and metrics to determine success of selected projects.

Full and Open Competition for Radio Programs.—The Committee recognizes the challenges faced by the Army in modernizing its radio networking technology and creating an overarching Integrated Tactical Network. The Committee is encouraged by the Army’s intent to utilize a rapid acquisition process that separately competes tactical radio variants for each aircraft platform outfitted under the Army’s Air to Ground Networking Radio program. The uniqueness of each aircraft platform presents a distinct challenge during integration, creating risk for the effort as a whole. By conducting platform specific competitions, the Army is addressing the integration challenge holistically. However, the Committee believes that a thorough and deliberative selection process, which includes comparative testing of each vendor radios, will ensure that the emerging needs of the warfighter are met through selection of the best and most cost effective variant for each platform. By encouraging the platform specific competition, rather than a sole source decision, the Army promotes competition within industry, mitigates risk to platform integration, and ultimately ensures improved capability is fielded to the warfighter expeditiously.

Threat Systems Management Office Resources.—The Committee is concerned that Army continually under resources Threat Simulator Development activities and notes that the fiscal year 2021 budget request includes only \$14,515,000 for the program. The Threat Simulator Development program managed by the Threat Systems Management Office [TSMO] provides key capabilities to the Army by replicating real-world threats for use in the Army’s

testing and training events. Therefore, the Committee recommends an additional \$27,500,000 above the budget request to support increased capability and encourages the Secretary of the Army to ensure adequate funding is provided to TSMO to keep pace with the growing threats and ensure that the Army has realistic threat scenarios for its training and test events.

RESEARCH, DEVELOPMENT, TEST AND EVALUATION, NAVY

Appropriations, 2020 \$20,155,115,000
 Budget estimate, 2021 21,427,048,000
 Committee recommendation 19,758,538,000

The Committee recommends an appropriation of \$19,758,538,000. This is \$1,668,510,000 below the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

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

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
	RESEARCH, DEVELOPMENT, TEST & EVALUATION, NAVY			
	BASIC RESEARCH			
1	UNIVERSITY RESEARCH INITIATIVES	116,816	124,816	+ 8,000
2	IN-HOUSE LABORATORY INDEPENDENT RESEARCH	19,113	19,113	.....
3	DEFENSE RESEARCH SCIENCES	467,158	474,158	+ 7,000
	TOTAL, BASIC RESEARCH	603,087	618,087	+ 15,000
	APPLIED RESEARCH			
4	POWER PROJECTION APPLIED RESEARCH	17,792	33,792	+ 16,000
5	FORCE PROTECTION APPLIED RESEARCH	122,281	197,281	+ 75,000
6	MARINE CORPS LANDING FORCE TECHNOLOGY	50,623	50,623	.....
7	COMMON PICTURE APPLIED RESEARCH	48,001	43,703	- 4,298
8	WARFIGHTER SUSTAINMENT APPLIED RESEARCH	67,765	102,765	+ 35,000
9	ELECTROMAGNETIC SYSTEMS APPLIED RESEARCH	84,994	89,994	+ 5,000
10	OCEAN WARFIGHTING ENVIRONMENT APPLIED RESEARCH	63,392	68,784	+ 5,392
11	JOINT NON-LETHAL WEAPONS APPLIED RESEARCH	6,343	6,343	.....
12	UNDERSEA WARFARE APPLIED RESEARCH	56,397	81,397	+ 25,000
13	FUTURE NAVAL CAPABILITIES APPLIED RESEARCH	167,590	167,590	.....
14	MINE AND EXPEDITIONARY WARFARE APPLIED RESEARCH	30,715	30,715	.....
15	INNOVATIVE NAVAL PROTOTYPES (INP) APPLIED RESEARCH	160,537	170,537	+ 10,000
16	SCIENCE AND TECHNOLOGY MANAGEMENT—ONR HEAD-QUARTERS	76,745	76,745	.....
	TOTAL, APPLIED RESEARCH	953,175	1,120,269	+ 167,094
	ADVANCED TECHNOLOGY DEVELOPMENT			
17	FORCE PROTECTION ADVANCED TECHNOLOGY	24,410	24,410	.....
18	ELECTROMAGNETIC SYSTEMS ADVANCED TECHNOLOGY	8,008	23,008	+ 15,000
19	MARINE CORPS ADVANCED TECHNOLOGY DEMONSTRATION [ATD]	219,045	261,645	+ 42,600
20	JOINT NON-LETHAL WEAPONS TECHNOLOGY DEVELOPMENT	13,301	13,301	.....
21	FUTURE NAVAL CAPABILITIES ADVANCED TECHNOLOGY DEV	246,054	238,821	- 7,233
22	MANUFACTURING TECHNOLOGY PROGRAM	60,122	60,122	.....
23	WARFIGHTER PROTECTION ADVANCED TECHNOLOGY	4,851	4,851	.....
24	NAVY WARFIGHTING EXPERIMENTS AND DEMONSTRATIONS	40,709	40,709	.....
25	MINE AND EXPEDITIONARY WARFARE ADVANCED TECHNOLOGY	1,948	1,948	.....

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
26	INNOVATIVE NAVAL PROTOTYPES (INP) ADVANCED TECHNOLOGY	141,948	141,948	.....
	TOTAL, ADVANCED TECHNOLOGY DEVELOPMENT	760,396	810,763	+ 50,367
	DEMONSTRATION & VALIDATION			
27	LARGE UNMANNED SURFACE VEHICLES (LUSVS)	464,042	91,200	- 372,842
27A	MEDIUM UNMANNED SURFACE VEHICLES (MUSVS) .....	.....	55,402	+ 55,402
28	AIR/OCEAN TACTICAL APPLICATIONS	35,386	35,386	.....
29	AVIATION SURVIVABILITY	13,428	13,428	.....
30	NAVAL CONSTRUCTION FORCES	2,350	2,350	.....
31	AIRCRAFT SYSTEMS	418	418	.....
32	ASW SYSTEMS DEVELOPMENT	15,719	15,719	.....
33	TACTICAL AIRBORNE RECONNAISSANCE	3,411	3,411	.....
34	ADVANCED COMBAT SYSTEMS TECHNOLOGY	70,218	55,237	- 14,981
35	SURFACE AND SHALLOW WATER MINE COUNTERMEASURES	52,358	52,358	.....
36	SURFACE SHIP TORPEDO DEFENSE	12,816	12,816	.....
37	CARRIER SYSTEMS DEVELOPMENT	7,559	7,559	.....
38	PILOT FISH	358,757	358,757	.....
39	RETRACT LARCH	12,562	12,562	.....
40	RETRACT JUNIPER	148,000	148,000	.....
41	RADIOLOGICAL CONTROL	778	778	.....
42	SURFACE ASW	1,161	1,161	.....
43	ADVANCED SUBMARINE SYSTEM DEVELOPMENT	185,356	153,916	- 31,440
44	SUBMARINE TACTICAL WARFARE SYSTEMS	10,528	10,528	.....
45	SHIP CONCEPT ADVANCED DESIGN	126,396	113,805	- 12,591
46	SHIP PRELIMINARY DESIGN & FEASIBILITY STUDIES	70,270	46,970	- 23,300
47	ADVANCED NUCLEAR POWER SYSTEMS	149,188	149,188	.....
48	ADVANCED SURFACE MACHINERY SYSTEMS	38,449	35,681	- 2,768
49	CHALK EAGLE	71,181	71,181	.....
50	LITTORAL COMBAT SHIP (LCS)	32,178	32,178	.....
51	COMBAT SYSTEM INTEGRATION	17,843	17,843	.....
52	SSBN NEW DESIGN	317,196	317,196	.....
53	LITTORAL COMBAT SHIP (LCS) MISSION MODULES	67,875	77,875	+ 10,000
54	AUTOMATED TEST AND RE-TEST	4,797	4,797	.....
55	FRIGATE DEVELOPMENT	82,309	82,309	.....
56	CONVENTIONAL MUNITIONS	9,922	9,922	.....
57	MARINE CORPS GROUND COMBAT/SUPPORT SYSTEM	189,603	50,396	- 139,207
57A	MARINE CORPS GROUND BASED ANTI-SHIP MISSILE .....	.....	15,107	+ 15,107
57B	MARINE CORPS LONG RANGE FIRES .....	.....	75,000	+ 75,000
58	JOINT SERVICE EXPLOSIVE ORDNANCE DEVELOPMENT	43,084	43,084	.....
59	OCEAN ENGINEERING TECHNOLOGY DEVELOPMENT	6,346	6,346	.....
60	ENVIRONMENTAL PROTECTION	20,601	20,601	.....
61	NAVY ENERGY PROGRAM	23,422	41,422	+ 18,000
62	FACILITIES IMPROVEMENT	4,664	4,664	.....
63	CHALK CORAL	545,763	473,763	- 72,000
64	NAVY LOGISTIC PRODUCTIVITY	3,884	3,884	.....
65	RETRACT MAPLE	353,226	348,690	- 4,536
66	LINK PLUMERIA	544,388	497,388	- 47,000
67	RETRACT ELM	86,730	86,730	.....
68	LINK EVERGREEN	236,234	231,770	- 4,464
70	NATO RESEARCH AND DEVELOPMENT	6,880	6,880	.....
71	LAND ATTACK TECHNOLOGY	10,578	5,850	- 4,728
72	JOINT NONLETHAL WEAPONS TESTING	28,435	28,435	.....
73	JOINT PRECISION APPROACH AND LANDING SYSTEMS	33,612	33,612	.....
74	DIRECTED ENERGY AND ELECTRIC WEAPON SYSTEMS	128,845	128,845	.....
75	F/A-18 INFRARED SEARCH AND TRACK (IRST)	84,190	84,190	.....
76	DIGITAL WARFARE OFFICE	54,699	37,740	- 16,959
77	SMALL AND MEDIUM UNMANNED UNDERSEA VEHICLES	53,942	39,208	- 14,734
78	UNMANNED UNDERSEA VEHICLE CORE TECHNOLOGIES	40,060	40,060	.....
79	RAPID PROTOTYPING, EXPERIMENTATION AND DEMONSTRATION	12,100	12,100	.....
80	LARGE UNMANNED UNDERSEA VEHICLES	78,122	78,122	.....
81	GERALD R FORD CLASS NUCLEAR AIRCRAFT CARRIER	107,895	107,895	.....

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
82	AIRBORNE MINE COUNTERMEASURES	17,366	17,366	.....
83	SURFACE MINE COUNTERMEASURES	18,754	18,754	.....
84	TACTICAL AIR DIRECTIONAL INFRARED COUNTERMEASURES	59,776	47,116	- 12,660
86	FUTURE VERTICAL LIFT (MARITIME STRIKE)	5,097	5,097	.....
87	RAPID TECHNOLOGY CAPABILITY PROTOTYPE	3,664	6,664	+ 3,000
88	LX (R)	10,203	10,203	.....
89	ADVANCED UNDERSEA PROTOTYPING	115,858	92,602	- 23,256
90	COUNTER UNMANNED AIRCRAFT SYSTEMS (C-UAS)	14,259	2,598	- 11,661
91	PRECISION STRIKE WEAPONS DEVELOPMENT PROGRAM	1,102,387	94,012	- 1,008,375
91A	CONVENTIONAL PROMPT GLOBAL STRIKE .....	.....	624,653	+ 624,653
92	SPACE & ELECTRONIC WARFARE [SEW] ARCHITECTURE/ENGINE	7,657	7,657	.....
93	OFFENSIVE ANTI-SURFACE WARFARE WEAPON DEVELOPMENT	35,750	46,750	+ 11,000
94	ASW SYSTEMS DEVELOPMENT—MIP	9,151	9,151	.....
95	ADVANCED TACTICAL UNMANNED AIRCRAFT SYSTEM	22,589	9,939	- 12,650
97	ELECTRONIC WARFARE DEVELOPMENT—MIP	809	809	.....
	TOTAL, DEMONSTRATION & VALIDATION	6,503,074	5,485,084	- 1,017,990
	ENGINEERING & MANUFACTURING DEVELOPMENT			
98	TRAINING SYSTEM AIRCRAFT	4,332	4,332	.....
99	OTHER HELO DEVELOPMENT	18,133	23,133	+ 5,000
100	AV-8B AIRCRAFT—ENG DEV	20,054	20,054	.....
101	STANDARDS DEVELOPMENT	4,237	4,237	.....
102	MULTI-MISSION HELICOPTER UPGRADE DEVELOPMENT	27,340	32,340	+ 5,000
104	P-3 MODERNIZATION PROGRAM	606	606	.....
105	WARFARE SUPPORT SYSTEM	9,065	9,065	.....
106	TACTICAL COMMAND SYSTEM	97,968	133,678	+ 35,710
107	ADVANCED HAWKEYE	309,373	263,813	- 45,560
108	H-1 UPGRADES	62,310	62,310	.....
109	ACOUSTIC SEARCH SENSORS	47,182	47,182	.....
110	V-22A	132,624	132,624	.....
111	AIR CREW SYSTEMS DEVELOPMENT	21,445	21,445	.....
112	EA-18	106,134	106,134	.....
113	ELECTRONIC WARFARE DEVELOPMENT	134,194	134,194	.....
114	EXECUTIVE HELO DEVELOPMENT	99,321	99,321	.....
115	NEXT GENERATION JAMMER [NGJ]	477,680	477,680	.....
116	JOINT TACTICAL RADIO SYSTEM—NAVY [JTRS—Navy]	232,818	232,818	.....
117	NEXT GENERATION JAMMER [NGJ] INCREMENT II	170,039	170,039	.....
118	SURFACE COMBATANT COMBAT SYSTEM ENGINEERING	403,712	365,142	- 38,570
119	LPD-17 CLASS SYSTEMS INTEGRATION	945	945	.....
120	SMALL DIAMETER BOMB [SDB]	62,488	62,488	.....
121	STANDARD MISSILE IMPROVEMENTS	386,225	250,018	- 136,207
122	AIRBORNE MCM	10,909	10,909	.....
123	NAVAL INTEGRATED FIRE CONTROL—COUNTER AIR SYSTEMS ENG	44,548	44,548	.....
124	ADVANCED SENSORS APPLICATION PROGRAM (ASAP)	13,673	13,673	.....
125	ADVANCED ABOVE WATER SENSORS	87,809	67,559	- 20,250
126	SSN-688 AND TRIDENT MODERNIZATION	93,097	93,097	.....
127	AIR CONTROL	38,863	38,863	.....
128	SHIPBOARD AVIATION SYSTEMS	9,593	9,593	.....
129	COMBAT INFORMATION CENTER CONVERSION	12,718	12,718	.....
130	AIR AND MISSILE DEFENSE RADAR (AMDR) SYSTEM	78,319	78,319	.....
131	ADVANCED ARRESTING GEAR (AAG)	65,834	65,834	.....
132	NEW DESIGN SSN	259,443	243,263	- 16,180
133	SUBMARINE TACTICAL WARFARE SYSTEM	63,878	71,378	+ 7,500
134	SHIP CONTRACT DESIGN/LIVE FIRE T&E	51,853	51,853	.....
135	NAVY TACTICAL COMPUTER RESOURCES	3,853	3,853	.....
136	MINE DEVELOPMENT	92,607	92,607	.....
137	LIGHTWEIGHT TORPEDO DEVELOPMENT	146,012	115,752	- 30,260
138	JOINT SERVICE EXPLOSIVE ORDNANCE DEVELOPMENT	8,383	8,383	.....
139	USMC GROUND COMBAT/SUPPORTING ARMS SYSTEMS—ENG DEV	33,784	33,784	.....

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
140	PERSONNEL, TRAINING, SIMULATION, AND HUMAN FACTORS	8,599	8,599	.....
141	JOINT STANDOFF WEAPON SYSTEMS	73,744	28,444	- 45,300
142	SHIP SELF DEFENSE (DETECT & CONTROL)	157,490	157,490	.....
143	SHIP SELF DEFENSE (ENGAGE: HARD KILL)	121,761	121,761	.....
144	SHIP SELF DEFENSE (ENGAGE: SOFT KILL/EW)	89,373	89,373	.....
145	INTELLIGENCE ENGINEERING	15,716	15,716	.....
146	MEDICAL DEVELOPMENT	2,120	2,120	.....
147	NAVIGATION/ID SYSTEM	50,180	50,180	.....
148	JOINT STRIKE FIGHTER (JSF)—EMD	561	6,571	+ 6,010
149	JOINT STRIKE FIGHTER (JSF)	250	6,804	+ 6,554
150	SSN(X)	1,000	1,000	.....
151	MARINE CORPS IT DEV/MOD	974	974	.....
152	INFORMATION TECHNOLOGY DEVELOPMENT	356,173	249,773	- 106,400
153	ANTI-TAMPER TECHNOLOGY SUPPORT	7,810	7,810	.....
154	CH-53K	406,406	406,406	.....
155	MISSION PLANNING	86,134	86,134	.....
156	COMMON AVIONICS	54,540	54,540	.....
157	SHIP TO SHORE CONNECTOR (SSC)	5,155	5,155	.....
158	T-AO 205 CLASS	5,148	2,087	- 3,061
159	UNMANNED CARRIER AVIATION	266,970	266,970	.....
160	JOINT AIR-TO-GROUND MISSILE (JAGM)	12,713	12,713	.....
161	MULTI-MISSION MARITIME AIRCRAFT [MMA]	24,424	24,424	.....
162	MULTI-MISSION MARITIME AIRCRAFT [MMA] INCREMENT 3 ..	182,870	144,365	- 38,505
163	MARINE CORPS ASSAULT VEHICLES SYSTEM DEVELOPMENT AND DEMO	41,775	41,775	.....
164	JOINT LIGHT TACTICAL VEHICLE (JLTV) SYSTEM DEVELOP- MENT AND DEMO	2,541	2,541	.....
165	DDG-1000	208,448	208,448	.....
169	TACTICAL CRYPTOLOGIC SYSTEMS	111,434	111,434	.....
170	CYBER OPERATIONS TECHNOLOGY DEVELOPMENT	26,173	26,173	.....
	TOTAL, ENGINEERING & MANUFACTURING DEVELOP- MENT	6,263,883	5,849,364	- 414,519
	RDT&E MANAGEMENT SUPPORT			
171	THREAT SIMULATOR DEVELOPMENT	22,075	22,075	.....
172	TARGET SYSTEMS DEVELOPMENT	10,224	10,224	.....
173	MAJOR T&E INVESTMENT	85,195	85,195	.....
175	STUDIES AND ANALYSIS SUPPORT—NAVY	3,089	3,089	.....
176	CENTER FOR NAVAL ANALYSES	43,517	43,517	.....
179	TECHNICAL INFORMATION SERVICES	932	932	.....
180	MANAGEMENT, TECHNICAL & INTERNATIONAL SUPPORT	94,297	94,297	.....
181	STRATEGIC TECHNICAL SUPPORT	3,813	3,813	.....
183	RDT&E SHIP AND AIRCRAFT SUPPORT	104,822	104,822	.....
184	TEST AND EVALUATION SUPPORT	446,960	419,212	- 27,748
185	OPERATIONAL TEST AND EVALUATION CAPABILITY	27,241	27,241	.....
186	NAVY SPACE AND ELECTRONIC WARFARE (SEW) SUPPORT ..	15,787	15,787	.....
187	SEW SURVEILLANCE/RECONNAISSANCE SUPPORT	8,559	8,559	.....
188	MARINE CORPS PROGRAM WIDE SUPPORT	42,749	37,749	- 5,000
189	MANAGEMENT HEADQUARTERS—R&D	41,094	41,094	.....
190	WARFARE INNOVATION MANAGEMENT	37,022	37,022	.....
193	INSIDER THREAT	2,310	2,310	.....
194	MANAGEMENT HEADQUARTERS (DEPARTMENTAL SUPPORT ACTIVITIES)	1,536	1,536	.....
	TOTAL, RDT&E MANAGEMENT SUPPORT	991,222	958,474	- 32,748
	OPERATIONAL SYSTEMS DEVELOPMENT			
199	HARPOON MODIFICATIONS	697	697	.....
200	F-35 C2D2	379,549	193,088	- 186,461
200A	F-35 FLIGHT TEST PROGRAM		116,845	+ 116,845
200B	F-35 SUSTAINMENT		9,306	+ 9,306
201	OPERATIONAL F-35 C2D2	413,875	210,550	- 203,325
201A	F-35 FLIGHT TEST PROGRAM		127,413	+ 127,413
201B	F-35 SUSTAINMENT		10,148	+ 10,148

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
202	COOPERATIVE ENGAGEMENT CAPABILITY (CEC)	143,667	143,667	.....
204	STRATEGIC SUB & WEAPONS SYSTEM SUPPORT	173,056	114,979	- 58,077
205	SSBN SECURITY TECHNOLOGY PROGRAM	45,970	45,970	.....
206	SUBMARINE ACOUSTIC WARFARE DEVELOPMENT	69,190	30,792	- 38,398
207	NAVY STRATEGIC COMMUNICATIONS	42,277	42,277	.....
208	F/A-18 SQUADRONS	171,030	175,030	+ 4,000
210	SURFACE SUPPORT	33,482	33,482	.....
211	TOMAHAWK AND TOMAHAWK MISSION PLANNING CENTER (TMPC)	200,308	200,308	.....
212	INTEGRATED SURVEILLANCE SYSTEM	102,975	115,475	+ 12,500
213	SHIP-TOWED ARRAY SURVEILLANCE SYSTEMS	10,873	10,873	.....
214	AMPHIBIOUS TACTICAL SUPPORT UNITS	1,713	1,713	.....
215	GROUND/AIR TASK ORIENTED RADAR	22,205	22,205	.....
216	CONSOLIDATED TRAINING SYSTEMS DEVELOPMENT	83,956	83,956	.....
218	ELECTRONIC WARFARE [EW] READINESS SUPPORT	56,791	42,986	- 13,805
219	HARM IMPROVEMENT	146,166	146,166	.....
221	SURFACE ASW COMBAT SYSTEM INTEGRATION	29,348	29,348	.....
222	MK-48 ADCAP	110,349	71,324	- 39,025
223	AVIATION IMPROVEMENTS	133,953	133,953	.....
224	OPERATIONAL NUCLEAR POWER SYSTEMS	110,313	110,313	.....
225	MARINE CORPS COMMUNICATIONS SYSTEMS	207,662	76,610	- 131,052
225A	MARINE CORPS AIR DEFENSE WEAPONS SYSTEMS .....	.....	131,052	+ 131,052
226	COMMON AVIATION COMMAND AND CONTROL SYSTEM	4,406	4,406	.....
227	MARINE CORPS GROUND COMBAT/SUPPORTING ARMS SYSTEMS	61,381	61,381	.....
228	MARINE CORPS COMBAT SERVICES SUPPORT	10,421	10,421	.....
229	USMC INTELLIGENCE/ELECTRONIC WARFARE SYSTEMS [MIP]	29,977	29,977	.....
230	AMPHIBIOUS ASSAULT VEHICLE	6,469	6,469	.....
231	TACTICAL AIM MISSILES	5,859	5,859	.....
232	ADVANCED MEDIUM RANGE AIR-TO-AIR MISSILE (AMRAAM)	44,323	44,323	.....
236	SATELLITE COMMUNICATIONS (SPACE)	41,978	50,978	+ 9,000
237	CONSOLIDATED AFLOAT NETWORK ENTERPRISE SERVICES	29,684	29,684	.....
238	INFORMATION SYSTEMS SECURITY PROGRAM	39,094	39,094	.....
239	JOINT MILITARY INTELLIGENCE PROGRAMS	6,154	6,154	.....
240	TACTICAL UNMANNED AERIAL VEHICLES	7,108	7,108	.....
241	UAS INTEGRATION AND INTEROPERABILITY	62,098	62,098	.....
242	DISTRIBUTED COMMON GROUND SYSTEMS/SURFACE SYSTEMS	21,500	21,500	.....
244	MQ-4C TRITON	11,120	11,120	.....
245	MQ-8 UAV	28,968	28,968	.....
246	RQ-11 UAV	537	537	.....
247	SMALL (LEVEL 0) TACTICAL UAS (STUASLO)	8,773	8,773	.....
248	RQ-21A	10,853	10,853	.....
249	MULTI-INTELLIGENCE SENSOR DEVELOPMENT	60,413	60,413	.....
250	UNMANNED AERIAL SYSTEMS (UAS) PAYLOADS [MIP]	5,000	5,000	.....
251	CYBERSPACE OPERATIONS FORCES AND FORCE SUPPORT	34,967	34,967	.....
252	RQ-4 MODERNIZATION	178,799	71,964	- 106,835
253	INTELLIGENCE MISSION DATA (IMD)	2,120	2,120	.....
254	MODELING AND SIMULATION SUPPORT	8,683	8,683	.....
255	DEPOT MAINTENANCE (NON-IF)	45,168	45,168	.....
256	MARITIME TECHNOLOGY (MARITECH)	6,697	6,697	.....
257	SATELLITE COMMUNICATIONS (SPACE)	70,056	35,956	- 34,100
	TOTAL, OPERATIONAL SYSTEMS DEVELOPMENT	3,532,011	3,141,197	- 390,814
258	RISK MANAGEMENT INFORMATION—SOFTWARE PILOT PROGRAM	14,300	14,300	.....
259	MARITIME TACTICAL COMMAND AND CONTROL (MTC2)—SOFTWARE PILOT PROGRAM	10,868	10,868	.....
	TOTAL, SOFTWARE AND DIGITAL TECHNOLOGY PILOT PROGRAMS	25,168	25,168	.....
999	CLASSIFIED PROGRAMS	1,795,032	1,750,132	- 44,900

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
	TOTAL, RESEARCH, DEVELOPMENT, TEST & EVALUATION, NAVY	21,427,048	19,758,538	-1,668,510

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
1	University Research Initiatives	116,816	124,816	+ 8,000
	Program increase: Aircraft fleet readiness and sustainment			+ 8,000
3	Defense Research Sciences	467,158	474,158	+ 7,000
	Program increase: Bio-inspired engineering and design for naval applications			+ 3,000
	Program increase: Predictive modeling and simulation for next generation naval undersea vehicles and platforms research			+ 2,000
	Program increase: USV Batteries, Materials and Additive Manufacturing			+ 2,000
4	Power Projection Applied Research	17,792	33,792	+ 16,000
	Program increase: High power microwave systems for counter-UAS defense			+ 16,000
5	Force Protection Applied Research	122,281	197,281	+ 75,000
	Program increase: Additive manufacturing of unmanned maritime systems			+ 10,000
	Program increase: Advanced energetics research and development			+ 5,000
	Program increase: Asia Pacific technology and education program			+ 5,000
	Program increase: Low cost silicon solar cells			+ 2,500
	Program increase: Navy alternative energy research			+ 25,000
	Program increase: Resilient technologies for the Navy fleet			+ 10,000
	Program increase: Robust energy infrastructure research			+ 7,000
	Program increase: Talent and technology for Navy power and energy systems			+ 10,500
7	Common Picture Applied Research	48,001	43,703	- 4,298
	Maintain program affordability: Unjustified growth			- 4,298
8	Warfighter Sustainment Applied Research	67,765	102,765	+ 35,000
	Program increase: Bulk fuel storage enhancement			+ 3,000
	Program increase: Engineered systems to preserve and restore hearing after deleterious stimulation			+ 5,000
	Program increase: Hypersonics materials acceleration			+ 4,000
	Program increase: Laser peening technology for submarine and carrier shafts			+ 3,000
	Program increase: Lightweight anti-corrosion nanotechnology coating enhancement			+ 5,000
	Program increase: Physics based neutralization of threats to human tissues and organs			+ 5,000
	Program increase: Polymer coatings for reduced ice and fouling adhesion			+ 5,000
	Program Increase: Social networks and computational social science			+ 2,000
	Program increase: Warfighter as a system human digital twin research			+ 3,000
9	Electromagnetic Systems Applied Research	84,994	89,994	+ 5,000
	Program increase: Dark swarm in degraded environments			+ 5,000
10	Ocean Warfighting Environment Applied Research	63,392	68,784	+ 5,392

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
	Maintain program affordability: Unjustified growth			- 2,108
	Program increase: Navy special warfare superiority in underseas and maritime environments			+ 3,500
	Program increase: Ocean acoustics for monitoring			+ 4,000
12	Undersea Warfare Applied Research	56,397	81,397	+ 25,000
	Program increase: Partnerships for undersea vehicle research			+ 14,000
	Program increase: Resident undersea autonomous robotics			+ 11,000
15	Innovative Naval Prototypes (INP) Applied Research	160,537	170,537	+ 10,000
	Program increase: Thermoplastic tailorable universal feedstock composites			+ 10,000
18	Electromagnetic Systems Advanced Technology	8,008	23,008	+ 15,000
	Program increase: All digital radar technology			+ 15,000
19	USMC Advanced Technology Demonstration [ATD]	219,045	261,645	+ 42,600
	Program increase: Marine Corps Force Design acceleration—Organic Reconnaissance, Surveillance and Target Acquisition			+ 4,500
	Program increase: Marine Corps Force Design acceleration—Closed Classified Wargaming Network and Naval Integration			+ 1,000
	Program increase: Marine Corps Force Design acceleration—Project Artemis			+ 11,100
	Program increase: Adaptive threat force footprint			+ 6,000
	Program increase: Ensuring defense and operational systems resilience for Marine Corps tactical cyber and spectrum maneuver			+ 10,000
	Program increase: Marine Corps mission support station demonstration			+ 10,000
21	Future Naval Capabilities Advanced Technology Development	246,054	238,821	- 7,233
	Improving funds management: C-ENCAP program delays			- 3,689
	Improving funds management: Air Warfare FNCs program delays			- 2,479
	Improving funds management: Information warfare FNCs program delays			- 5,229
	Improving funds management: Surface warfare FNCs program delays			- 3,314
	Improving funds management: Undersea warfare FNCs program delays			- 3,522
	Program increase: Advanced energetics			+ 6,000
	Program increase: Development of submersible air revitalization			+ 5,000
27	Medium and Large Unmanned Surface Vehicles (USVs)	464,042	91,200	- 372,842
	Transfer: p3428, Medium Unmanned Surface Vehicle to line 27A			- 26,302
	Transfer: Navy Large Unmanned Surface Vehicle program restructure to Medium Unmanned Surface Vehicle to line 27A			- 29,100
	Restoring acquisition accountability: Navy Large Unmanned Surface Vehicle program restructure			- 408,640
	Restoring acquisition accountability: Navy Large Unmanned Surface Vehicle program restructure p3066—Warfare centers/PM only			+ 28,100
	Restoring acquisition accountability: Navy Large Unmanned Surface Vehicle program restructure p3066—Ghost Fleet/Overlord experimentation only			+ 32,600
	Restoring acquisition accountability: Navy Large Unmanned Surface Vehicle program restructure p3066—Large Unmanned Surface Vehicle studies only			+ 10,000

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
	Restoring acquisition accountability: Navy Large Unmanned Surface Vehicle program restructure p3067—Autonomy, C2, Elevated sensors, USV squadron, USV experimentation, Technical and management services only			+ 20,500
27A	Medium Unmanned Surface Vehicles (MUSVs)		55,402	+ 55,402
	Transfer: p3428, Medium Unmanned Surface Vehicle from line 27			+ 26,302
	Transfer: Medium Unmanned Surface Vehicle machinery plant only, per Navy Large Unmanned Surface Vehicle program restructure from line 27			+ 14,000
	Transfer: Naval Surface Warfare Center land-based engineering site for Medium Unmanned Surface Vehicle testing only, per Navy Large Unmanned Surface Vehicle program restructure from line 27			+ 15,100
34	Advanced Combat Systems Technology	70,218	55,237	- 14,981
	Improving funds management: p3416 HJENKS program restructure			- 14,981
43	Advanced Submarine System Development	185,356	153,916	- 31,440
	Restoring acquisition accountability: p9710 program delay			- 27,430
	Restoring acquisition accountability: p2096 material purchases for Block V VCS early to need			- 4,010
45	Ship Concept Advanced Design	126,396	113,805	- 12,591
	Improving funds management: p4037 CHAMP sealift program			- 12,591
46	Ship Preliminary Design & Feasibility Studies	70,270	46,970	- 23,300
	Restoring acquisition accountability: p0411 requirements and concept analysis excess growth			- 16,200
	Restoring acquisition accountability: p0411 preliminary design early to need			- 17,100
	Program increase: Bridge integration program			+ 10,000
48	Advanced Surface Machinery Systems	38,449	35,681	- 2,768
	Improving funds management: p2471 energy magazine prototype contract award delay			- 15,268
	Program increase: Electric outboard technology			+ 2,500
	Program increase: Silicon carbide power modules cost reduction and qualification			+ 10,000
53	LCS Mission Modules	67,875	77,875	+ 10,000
	Program increase: LCS anti-submarine warfare escort mission module test ship installation			+ 10,000
57	Marine Corps Ground Combat/Support System	189,603	50,396	- 139,207
	Transfer: p6637, Ground Based Anti-Ship Missile to line 57A			- 64,207
	Transfer: p6638, Long Range Fires to line 57B			- 75,000
57A	Marine Corps Ground Based Anti-Ship Missile		15,107	+ 15,107
	Transfer: p6637, Ground Based Anti-Ship Missile from line 57			+ 64,207
	Restoring acquisition accountability: ROGUE vehicles and fire control systems acquisition concurrency with development			- 40,000
	Restoring acquisition accountability: GBASM missiles for user evaluation early to need			- 9,100
57B	Marine Corps Long Range Fires		75,000	+ 75,000
	Transfer: p6638, Long Range Fires from line 57			+ 75,000
61	Navy Energy Program	23,422	41,422	+ 18,000
	Program increase: Marine energy converters for sensors and microgrids			+ 10,500
	Program increase: Natural gas technologies			+ 7,500
63	CHALK CORAL	545,763	473,763	- 72,000
	Program adjustment			- 72,000
65	RETRACT MAPLE	353,226	348,690	- 4,536
	Program adjustment			- 4,536
66	LINK PLUMERIA	544,388	497,388	- 47,000

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
	Program adjustment			- 47,000
68	LINK EVERGREEN	236,234	231,770	- 4,464
	Program adjustment			- 4,464
71	Land Attack Technology	10,578	5,850	- 4,728
	Restoring acquisition accountability: p3401 continued lack of acquisition strategy			- 4,728
76	Digital Warfare Office	54,699	37,740	- 16,959
	Improving funds management: Excess growth			- 16,959
77	Small and Medium Unmanned Undersea Vehicles	53,942	39,208	- 14,734
	Reduce duplication: p3785 prior year funding			- 14,734
84	Tactical Air Directional Infrared Countermeasures (TADIRCM) ..	59,776	47,116	- 12,660
	Improving funds management: DAIRCM program of record contract award delay			- 12,660
87	Rapid Technology Capability Prototype	3,664	6,664	+ 3,000
	Program increase: Non-traditional small business support to Marine Corps Warfighting Laboratory			+ 3,000
89	Advanced Undersea Prototyping	115,858	92,602	- 23,256
	Restoring acquisition accountability: Excess scope adjustments			- 23,256
90	Counter Unmanned Aircraft Systems (C-UAS)	14,259	2,598	- 11,661
	Reduce duplication: System development			- 11,661
91	Precision Strike Weapons Development Program	1,102,387	94,012	- 1,008,375
	Transfer: p3334, Conventional Prompt Strike to line 91A			- 1,008,375
91A	Conventional Prompt Global Strike		624,653	+ 624,653
	Transfer: p3334, Conventional Prompt Global Strike from line 91			+ 1,008,375
	Restoring acquisition accountability: Three missile round procurements excess to test requirements			- 248,800
	Restoring acquisition accountability: Block 2 missile design concurrency			- 35,922
	Improving funds management: SSN modifications and installation concurrency with design efforts			- 104,000
	Program increase: Neutron radiographic inspection of cartridge and propellant actuated devices			+ 5,000
93	Offensive Anti-Surface Warfare Weapon Development	35,750	46,750	+ 11,000
	Transfer: LRASM NSA mandated crypto modernization from line 141 per Navy request			+ 11,000
95	Advanced Tactical Unmanned Aircraft System	22,589	9,939	- 12,650
	Restoring acquisition accountability: Project 3135 studies and experimentation, prototype development; modeling and simulation; test and evaluation growth			- 12,650
99	Other Helo Development	18,133	23,133	+ 5,000
	Program increase: CH-53E health usage monitoring system			+ 5,000
102	Multi-Mission Helicopter Upgrade Development	27,340	32,340	+ 5,000
	Program increase: MH-60 capability upgrades			+ 5,000
106	Tactical Command System	97,968	133,678	+ 35,710
	Transfer: Navy-requested transfer from line 152 for revised Logistics IT acquisition strategy			+ 35,710
107	Advanced Hawkeye	309,373	263,813	- 45,560
	Improving funds management: Apply unjustified prior DSSC growth to DSSC-6			- 22,000
	Improving funds management: DSSC-6 excess growth			- 37,560
	Program increase: E-2D Advanced Hawkeye radar			+ 14,000
118	Surface Combatant Combat System Engineering	403,712	365,142	- 38,570
	Improving funds management: AEGIS development support excess growth			- 17,870
	Restoring acquisition accountability: Capability upgrades unjustified growth			- 20,700
121	Standard Missile Improvements	386,225	250,018	- 136,207
	Restoring acquisition accountability: Interim capability development excess growth			- 92,807
	Restoring acquisition accountability: SM-6 Block IB mission integration, development and operational test			- 18,400

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
	Restoring acquisition accountability: Electronics unit joint program lack of justification			- 25,000
125	Advanced Above Water Sensors	87,809	67,559	- 20,250
	Improving funds management: p3243 one unit funded early to need			- 20,250
132	New Design SSN	259,443	243,263	- 16,180
	Improving funds management: Future payloads integration early to need			- 26,180
	Program increase: Out-of-autoclave technology for submarines			+ 10,000
133	Submarine Tactical Warfare System	63,878	71,378	+ 7,500
	Program increase: Combat systems of the future end-to-end cyber security tools			+ 7,500
137	Lightweight Torpedo Development	146,012	115,752	- 30,260
	Improving funds management: p3418 platform integration early to need			- 30,260
141	Joint Standoff Weapon Systems	73,744	28,444	- 45,300
	Transfer: LRASM NSA mandated crypto modernization to line 93 per Navy request			- 11,000
	Improving funds management: Funding excess to need ..			- 34,300
148	Joint Strike Fighter (JSF)—EMD	561	6,571	+ 6,010
	Transfer from line 200			+ 6,010
149	Joint Strike Fighter (JSF)—EMD	250	6,804	+ 6,554
	Transfer from line 201			+ 6,554
152	Information Technology Development	356,173	249,773	- 106,400
	Improving funds management: p2905 execution adjustment			- 25,000
	Transfer: p3432 Navy-requested transfer to line 106 for revised Logistics IT acquisition strategy			- 35,710
	Improving funds management: p3432 growth prior to change to acquisition strategy			- 45,690
158	T-AO 205 Class	5,148	2,087	- 3,061
	Improving funds management: operational and live fire test schedule delays			- 3,061
162	Multi-Mission Maritime [MMA] Increment III	182,870	144,365	- 38,505
	Restoring acquisition accountability: Engineering change proposal 6 unjustified growth			- 38,505
184	Test and Evaluation Support	446,960	419,212	- 27,748
	Transfer: Navy-requested transfer to OMN line BSM1 for China Lake earthquake recovery			- 27,748
188	Marine Corps Program Wide Support	42,749	37,749	- 5,000
	Improving funds management: p3009 excess growth			- 5,000
200	Operational F-35 C2D2	379,549	193,088	- 186,461
	Transfer to line 148: Conduct SDD closure efforts in EMD program element			- 6,010
	Transfer to line 200A for F-35 C2D2 budget restructure: F-35 Flight Test Program			- 136,750
	Transfer to line 200B for F-35 C2D2 budget restructure: F-35 Sustainment			- 20,615
	F-35 C2D2 project realignment			- 216,174
	F-35 C2D2 project realignment: Phase II			+ 93,337
	F-35 C2D2 project realignment: TR-3			+ 48,955
	F-35 C2D2 project realignment: DT A/C viability			+ 16,420
	F-35 C2D2 project realignment: Training investments			+ 12,845
	F-35 C2D2 project realignment: C2D2 projects			+ 4,890
	F-35 C2D2 project realignment: IPT projects			+ 11,359
	F-35 c2D2 project realignment: Fixed JPO support			+ 20,680
	F-35 C2D2 project realignment: Statutory reductions			+ 7,688
	Maintain program affordability: Unjustified program growth in Phase II efforts			- 14,266
	Improving funds management: Forward financing of Fixed JPO support			- 4,407
	Restoring acquisition accountability: Fixed JPO support ..			- 3,255

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate	
200A	Maintain program affordability: Unjustified program growth in Statutory reductions			- 1,159	
	F-35 Flight Test Program		116,845	+ 116,845	
	Transfer from line 200 for F-35 C2D2 budget restructuring: Flight test, labs and support			+ 68,118	
	Transfer from line 200 for F-35 C2D2 budget restructuring: Flight test assets			+ 10,948	
	Transfer from line 200 for F-35 C2D2 budget restructuring: Organic flight test support			+ 41,281	
	Transfer from line 200 for F-35 C2D2 budget restructuring: Labs/JSE			+ 11,540	
	Transfer from line 200 for F-35 C2D2 budget restructuring: Statutory reductions F-35 Flight Test Program ..			+ 4,863	
	Insufficient budget justification: Contradiction in justification books/briefs for flight test, labs and support			- 18,992	
	Maintain program affordability: Unjustified program growth in Statutory reductions			- 912	
	200B	F-35 Sustainment		9,306	+ 9,306
Transfer from line 200 for F-35 C2D2 budget restructuring: ALIS LM Efforts				+ 9,015	
Transfer from line 200 for F-35 C2D2 budget restructuring: ALIS NEXT				+ 3,359	
Transfer from line 200 for F-35 C2D2 budget restructuring: ALIS Agile DevOps				+ 7,508	
Transfer from line 200 for F-35 C2D2 budget restructuring: Statutory reductions F-35 Sustainment				+ 733	
Restoring acquisition accountability: Acquisition Strategy for ALIS LM Efforts				- 8,174	
Maintain program affordability: Unjustified program growth in ALIS NEXT				- 840	
Maintain program affordability: Unjustified program growth in ALIS Agile DevOps				- 1,877	
Maintain program affordability: Unjustified program growth in Statutory reductions				- 419	
201		Operational F-35 C2D2	413,875	210,550	- 203,325
	Transfer to line 149: Conduct SDD closure efforts in EMD program element			- 6,554	
	Transfer to line 201A for F-35 C2D2 budget restructuring: F-35 Flight Test Program			- 149,117	
	Transfer to line 201B for F-35 C2D2 budget restructuring: F-35 Sustainment			- 22,480	
	F-35 C2D2 project realignment			- 235,724	
	F-35 C2D2 project realignment: Phase II			+ 101,778	
	F-35 C2D2 project realignment: TR-3			+ 53,382	
	F-35 C2D2 project realignment: DT A/C viability			+ 17,905	
	F-35 C2D2 project realignment: Training investments			+ 14,007	
	F-35 C2D2 project realignment: C2D2 projects			+ 5,332	
	F-35 C2D2 project realignment: IPT projects			+ 12,387	
	F-35 c2D2 project realignment: Fixed JPO support			+ 22,550	
	F-35 C2D2 project realignment: Statutory reductions			+ 8,384	
	Maintain program affordability: Unjustified program growth in Phase II efforts			- 15,556	
	Improving funds management: Forward financing of Fixed JPO support			- 4,805	
	Restoring acquisition accountability: Fixed JPO support ..			- 3,549	
	Maintain program affordability: Unjustified program growth in Statutory reductions			- 1,264	
	201A	F-35 Flight Test Program		127,413	+ 127,413
		Transfer from line 201 for F-35 C2D2 budget restructuring: Flight test, labs and support			+ 74,278
		Transfer from line 201 for F-35 C2D2 budget restructuring: Flight test assets			+ 11,938

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
	Transfer from line 201 for F-35 C2D2 budget restructuring: Organic flight test support			+ 45,014
	Transfer from line 201 for F-35 C2D2 budget restructuring: Labs/JSE			+ 12,583
	Transfer from line 201 for F-35 C2D2 budget restructuring: Statutory reductions F-35 Flight Test Program ..			+ 5,303
	Insufficient budget justification: Contradiction in justification books/briefs for flight test, labs and support			- 20,710
	Maintain program affordability: Unjustified program growth in Statutory reductions			- 995
201B	F-35 Sustainment		10,148	+ 10,148
	Transfer from line 201 for F-35 C2D2 budget restructuring: ALIS LM Efforts			+ 9,831
	Transfer from line 201 for F-35 C2D2 budget restructuring: ALIS NEXT			+ 3,662
	Transfer from line 201 for F-35 C2D2 budget restructuring: ALIS Agile DevOps			+ 8,187
	Transfer from line 201 for F-35 C2D2 budget restructuring: Statutory reductions F-35 Sustainment			+ 800
	Restoring acquisition accountability: Acquisition Strategy for ALIS LM Efforts			- 8,913
	Maintain program affordability: Unjustified program growth in ALIS NEXT			- 916
	Maintain program affordability: Unjustified program growth in ALIS Agile DevOps			- 2,047
	Maintain program affordability: Unjustified program growth in Statutory reductions			- 456
204	Strategic Sub & Weapons System Support	173,056	114,979	- 58,077
	Restoring acquisition accountability: Project 2228 D5LE2 growth for submarine launched ballistic missile and strategic guidance technologies			- 64,077
	Program increase: Enhanced inertial measurement unit			+ 6,000
206	Submarine Acoustic Warfare Development	69,190	30,792	- 38,398
	Restoring acquisition accountability: p1267 concurrency			- 47,898
	Program increase: Acoustic device countermeasures			+ 9,500
208	F/A-18 Squadrons	171,030	175,030	+ 4,000
	Program increase: Growler noise mitigation			+ 4,000
212	Integrated Surveillance System	102,975	115,475	+ 12,500
	Program increase: Maritime surveillance system sensor and signal processing performance improvements			+ 12,500
218	Electronic Warfare [EW] Readiness Support	56,791	42,986	- 13,805
	Improving funds management: p2263 unjustified growth			- 5,886
	Improving funds management: p3426 unjustified growth			- 7,919
222	MK-48 ADCAP	110,349	71,324	- 39,025
	Improving funds management: TI-1 hardware development prior year contract award delay			- 28,625
	Restoring acquisition accountability: TI-2 prototypes early to need			- 10,400
225	Marine Corps Communications Systems	207,662	76,610	- 131,052
	Transfer p2278 Air Defense Weapons Systems to line 225A			- 131,052
225A	Marine Corps Air Defense Weapons Systems		131,052	+ 131,052
	Transfer p2278 Air Defense Weapons Systems from line 225			+ 131,052
	Restoring acquisition accountability: p2278 MRIC test and evaluation resources for engineering support only, per Marine Corps-identified requirement			[9,200]
236	Satellite Communications (SPACE)	41,978	50,978	+ 9,000
	Program increase: Navy multiband terminal program interference mitigation technology test			+ 9,000
252	RQ-4 Modernization	178,799	71,964	- 106,835
	Restoring acquisition accountability: Excess cost growth			- 106,835
257	Satellite Communications (SPACE)	70,056	35,956	- 34,100

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
999	Restoring acquisition accountability: p2472 MUOS Follow-on engineering contract and acquisition planning			– 34,100
	Classified Programs	1,795,032	1,750,132	– 44,900
	Classified adjustment			– 44,900

Office of Naval Research Budget Structure and Budget Justification Materials.—The Committee reiterates previously stated direction contained in Senate Report 116–103 regarding the program element structure for Navy science and technology projects. Further, the Committee continues to believe that acquisition-type prototyping efforts managed by the Office of Naval Research [ONR] require additional oversight, fiscal clarity, and adherence to financial management practices in order to avoid the schedule and cost growth seen, e.g., in the Solid State Laser-Technology Maturation program. Finally, the Committee remains dissatisfied with the lack of timely transmission, as well as the format, of classified project and budget details for ONR efforts and directs that not later than thirty days after enactment of this act, the Assistant Secretary of the Navy (Financial Management and Comptroller) and the Chief, Naval Research, present a plan to the congressional defense committees to ensure that for ONR’s classified project-specific information required by the congressional defense committees for their budget review be provided concurrent with submission of the President’s budget in the appropriate format.

Marine Corps Force Design Initiatives.—Shortly after submission of the fiscal year 2021 President’s budget request, the Commandant of the Marine Corps released “Force Design 2030”, followed by the submission to Congress of an above threshold reprogramming request to accelerate certain technology efforts in support of Force Design efforts. The Committee notes that this reprogramming request was approved by all four congressional defense committees and recommends additional appropriations in fiscal year 2021 to continue this acceleration. It is the Committee’s expectation that these programs will be fully funded in the fiscal year 2022 President’s budget request.

Further, the fiscal year 2021 President’s budget request includes several acquisition programs that support the Commandant’s Force Design, including the Ground Based Anti-Ship Missile, Long Range Fires, Organic Precision Fires, and the Long Range Unmanned Surface Vessel programs. The Committee is largely supportive of these efforts, but is concerned that the Marine Corps is overly dependent on prototyping and mid-tier acquisition fielding authorities for developing these programs. The Committee directs the Assistant Secretary of the Navy (Research, Development and Acquisition) to review the Marine Corps’ acquisition strategies for these and other programs related to Force Design, and to certify their appropriate use to the congressional defense committees not later than with submission of the fiscal year 2022 President’s budget request.

Unmanned Surface Vessels.—The fiscal year 2021 President’s budget request includes \$437,740,000 for the procurement of two Large Unmanned Surface Vessels [LUSVs] and containerized payloads, as well as for the development of a modified combat system

and enabling capabilities to prototype and demonstrate technologies in support of a LUSV program of record in fiscal year 2023 that includes an integrated Vertical Launch System [VLS] payload. Additionally, the fiscal year 2021 President's budget request includes \$26,302,000 to complete detailed design and oversight of a prototype Medium Unmanned Surface Vessel [MUSV] that carries non-kinetic payloads, and the Navy has budgeted funds for the procurement of an additional MUSV in fiscal year 2023. Subsequent to the budget submission, the Navy revised its fiscal year 2021 acquisition and budget requests for both the LUSV and MUSV programs and requested that funds be appropriated for the first year of a two-year Comprehensive Reliability Plan [CRP] for both programs in lieu of additional LUSV platforms and payloads, while maintaining the Navy's previously planned fiscal year 2023 establishment of a LUSV program of record with an integrated VLS.

The Committee notes that the mission requirements and concepts of operations for the LUSV and MUSV programs remain an evolving work in progress, and that concerns previously expressed by the appropriations committees with respect to a VLS payload on a LUSV have not been sufficiently addressed. However, the Committee does believe that demonstrating the reliability of some key technologies of unmanned surface vessels is critical to acquisition success of any such platforms.

As such, the Committee recommends fully funding the MUSV program in fiscal year 2021, to include the Navy's requested realignment of \$29,100,000 from LUSV to the MUSV program in support of a MUSV CRP. The Committee also recommends full funding for the development of enabling capabilities such as autonomy, command and control, sensors, and experimentation. The Committee recommends no funding for additional LUSVs, a LUSV combat system, combat system modifications, or LUSV payloads in fiscal year 2021. The Committee notes that the Navy will take possession of two prototype LUSVs from the Strategic Capabilities Office at the end of fiscal year 2021 and that in fiscal year 2020, Congress appropriated funding for two additional LUSVs to the Navy that are also scheduled to deliver to the Navy at the end of fiscal year 2021. The Committee believes that the Navy has sufficient prototypes on-hand to define LUSV and MUSV missions, program requirements, and concepts of operations in alignment with key stakeholders. Finally, Congress in fiscal year 2020 appropriated funding for concept design studies to inform future detail design and construction of a LUSV and recommends an additional \$10,000,000, as requested by the Navy, in fiscal year 2021 for these efforts. The Committee notes that this does not constitute endorsement of integrating VLS on LUSVs.

Future Surface Combatant Force.—The fiscal year 2021 President's budget request includes \$46,453,000 in program element 0603564N for requirements development, prototyping, and preliminary and contract design of a new Large Surface Combatant [LSC] class to succeed the current DDG-51 Flight III destroyer. Additionally, the Committee notes that \$19,020,000 is included in program element 0603563N for requirements and concept analysis of an LSC. The Committee notes that despite repeated delays to the LSC, the Navy has reduced the acquisition profile for DDG-51

Flight III destroyers in recent budget submissions and has not delineated a clear acquisition path for large surface combatants following the conclusion of the current DDG-51 Flight III destroyer multi-year procurement contract in fiscal year 2022. Absent a clear understanding of future Navy LSC force structure requirements and acquisition strategies the Committee does not support the proposed increase in funding for LSC, to include \$17,100,000 in preliminary design efforts.

Further, the Committee notes that information provided by the Navy in response to Senate Report 116-103 regarding the Navy's Surface Capability Evolution Plan [SCEP] was incomplete. The Assistant Secretary of the Navy (Research, Development and Acquisition) is directed to provide to the congressional defense committees, with the fiscal year 2022 President's budget request, the updated acquisition strategies for each element of the Navy's SCEP, as previously requested, and the Assistant Secretary of the Navy (Financial Management and Comptroller) is directed to provide, with the fiscal year 2022 President's budget request, updated cost estimates for each element of the SCEP, and to certify full funding in the budget request for each respective acquisition strategy of the SCEP elements.

Conventional Prompt Strike.—The fiscal year 2021 President's budget request includes \$1,008,375,000 for the continued development, platform integration, procurement of all-up rounds, and block upgrade of a Conventional Prompt Strike [CPS] capability. The Committee notes that the Navy intends to field a limited operational CPS capability on an *OHIO* Class guided missile submarine [SSGN] in fiscal year 2025 and an initial operational CPS capability on a *VIRGINIA* Class submarine by fiscal year 2028, and is exploring additional platforms of employment. The Committee further notes that the Navy plans to invest in excess of \$5,800,000,000 in CPS and associated efforts over the next 5 years, and to procure over 25 CPS all-up rounds prior to making a production decision. Additionally, the Committee notes that the Assistant Secretary of the Navy (Research, Development and Acquisition) has approved an acquisition strategy using section 804 mid-tier acquisition rapid prototyping and fielding authority as the acquisition strategy for this program.

The Committee notes that an Independent Cost Estimate [ICE], recently completed by the Director, Cost Assessment and Program Evaluation [CAPE], at the direction of the Committee references the Navy's optimistic assumptions with respect to CPS engineering development, the concurrent development of CPS blocks, as well as significant funding shortfalls in the outyears. Further, the ICE notes a lack of specificity in the acquisition strategy, technical baseline, and schedule programmatic definition.

The Committee recognizes the need for and continues its support of the CPS program, but is concerned by the Navy's acquisition approach and the Director, CAPE's, findings. Therefore, to ensure continued development progress towards a CPS capability while reducing acquisition risk, the Committee recommends a reduction of \$248,800,000 for the procurement of CPS all-up rounds in fiscal year 2021 that are excess to rounds required to execute the flight test program; a reduction of \$35,922,000 to contractor-led CPS

block 2 upgrades; and a reduction of \$104,000,000 for *VIRGINIA* Class SSN modifications and installations. In addition, the Committee directs the Assistant Secretary of the Navy (Research, Development and Acquisition) to review the acquisition strategy for the CPS program.

AEGIS Baselines Budget Estimates.—As previously expressed in Senate Report 116–103, the Committee remains concerned with the lack of stability in scope and costs of AEGIS baselines from budget submission to budget submission and the lack of associated details in budget justification materials. The Department of the Navy Program Executive Officer, Integrated Warfare Systems, and the Missile Defense Agency Program Executive, Sea-Based Weapons Systems, are directed to provide to the congressional defense committees, no later than 30 days after enactment of this act, a joint acquisition baseline for AEGIS development efforts.

CH–53K System Demonstration Test Article Aircraft.—The Assistant Secretary of the Navy (Research, Development and Acquisition) and the Assistant Secretary of the Navy (Financial Management and Comptroller) are directed to continue to comply with the direction contained in Senate Report 116–103 regarding System Demonstration Test Article aircraft for the CH–53K program.

Aircraft Fleet Readiness and Sustainment.—The Committee remains concerned with long-term critical challenges the Navy and Marine Corps face in maintaining the readiness and extending the useful life of their aircraft fleets. The Committee recognizes the role of university research institutions in performing basic research that will translate into technological capabilities to assist the Navy and Marine Corps in addressing these and related technical and engineering challenges, and recommends an additional \$8,000,000 for that purpose.

Bio-Inspired Engineering and Design for Naval Applications.—The Committee recognizes potential in additive manufacturing for Naval and Marine applications in bio-inspired design and engineering when coupled with the recent advances in machine learning and data science. However, the Committee believes a deeper understanding is required through the characterization and modelling of natural systems from neural networks to sponge colonies, from flight to fluid flow to address problems in propulsion, maneuvering, sensing, actuation, signal processing, to enable the design, manufacturing and integration of next generation materials and structures with the marine environment. Therefore, the Committee supports an additional \$3,000,000 to support bio-inspired engineering and design for naval applications.

Navy Alternative Energy Research.—As in previous years, the Committee recommends an increase for Navy alternative energy research. The Committee notes the fiscal and operational value of investing in alternative energy research, and encourages the Navy to continue research, development, testing, and deployment of advanced energy systems with the potential to reduce the cost of energy and increase energy security, reliability, and resiliency at Department of Defense facilities. The integration of emerging land and ocean-based energy generation and end-use energy efficiency technologies have the potential to improve the operational security and reliability of critical physical and cybersecurity infrastructure.

Further, the Committee encourages the Navy to invest in energy demonstration activities relating to Department of Defense facilities and activities in coordination with other Federal agencies and entities.

Talent and Technology for Navy Power and Energy Systems.—The Committee notes that directed energy weapons contribute to maintaining a military technological advantage, but that they also create new energy challenges on ships and submarines. Therefore, the Committee recommends an increase of \$10,500,000 for a combination of workforce talent and technology development efforts in support of Navy power and energy systems, such as bridge-to-university programs for under-prepared university enrollees and digital twin research.

Engineered Systems to Preserve and Restore Hearing.—The Committee supports the Department of the Navy's noise induced hearing loss research and development initiative and recommends an additional \$5,000,000 to expand efforts in this area, including the research and development of a novel noise-level enabled drug dosing and delivery system designed to shield the ear tissue from mechanical stimuli, such as noise and pressure that would otherwise cause temporary or permanent hearing loss.

Laser Peening Technology for Submarine and Carrier Shafts.—The Committee recognizes that maintaining submarine and carrier propulsion shafts requires frequent and costly safety inspections and repair, limiting the operations of these assets. To protect shafts against fatigue and corrosion-induced fatigue, increase shaft lifetime, and reduce cost, the Committee recommends an additional \$3,000,000 for the development and deployment of laser peening technology for submarine and carrier shafts.

Physics Based Neutralization of Threats to Human Tissues and Organs.—The Committee recognizes the need for additional research on the impacts on the human brain after experiencing a blast event. Further, the Committee understands that the Secretary of the Navy is leveraging 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. Therefore, the Committee recommends an additional \$5,000,000 specifically for continued research of Office of Naval Research efforts of physics based neutralization of threats to human tissues and organs.

Standoff Improvised Explosive Device Detection.—The Committee recognizes the value of using hyperspectral imaging technologies for standoff detection of improvised explosive devices [IEDs] and for detection of the explosive constituent chemicals and other materials used in the manufacture of IEDs, such as nitrates, nitrites, phosphates, and ammonia. The Committee believes that these technologies have promising application on remotely piloted systems and encourages the Secretary of Navy to pursue development of such technologies.

Ocean Acoustics.—The Committee notes that research in the areas of ocean acoustics prepares the Navy to adapt to changes in ocean environments and coastlines that will create new security concerns for the future. Therefore, the Committee encourages the Secretary of the Navy to work with academia to develop the ocean

monitoring capabilities necessary to understand the rapidly changing ocean.

Research and Workforce Partnerships for Submarine and Undersea Vehicle Programs.—The Committee recommends an additional \$14,000,000 to build stronger partnerships among Navy research labs, academia, and industry for submarine and undersea vehicle development. The Secretary of the Navy is encouraged to closely coordinate this effort with the Navy's 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 may focus on specific, well defined short- and long-term submarine and autonomous undersea vehicle research needs and accelerated technology transition. These partnerships should also include a strong workforce development component to help ensure a sustainable industrial base. Projects funded under this initiative should also focus on reducing manufacturing costs where possible.

Resident Autonomous Undersea Vehicle Research.—The Committee urges the Secretary of the Navy to continue the Navy's support for the cost-effective development of resident autonomous undersea robotic systems, including research, testing, and demonstration of technologies that will support persistent surveillance, security, and related fleet readiness requirements. The Committee believes that university-based research and innovation centered on the development of resident autonomous undersea robotic technologies will be essential in maintaining the Navy's competitive advantage in the future and recommends an additional \$11,000,000 for this effort.

Thermoplastic Tailorable Universal Feedstock Composites.—The Committee understands that thermoplastic carbon-fiber composite materials have important advantages over aluminum, including higher specific strength and corrosion resistance. The Committee understands that in order for thermoplastic composite materials to transition onto Navy aircraft platforms, new technologies need to be developed to fabricate composite parts from highly formable feedstock materials through low-cost and high-throughput manufacturing processes. The Committee recommends an additional \$10,000,000 to fund the development of tailored universal feedstock for forming aligned short fiber thermoplastic composites for lightweight high-performance naval applications.

Energetics Research.—The Committee is concerned about advances adversaries are making in advanced energetics, and believes that there is a need for a renewed, long-term investment in research and development of advanced energetics to increase the lethality, range, and speed of weapons; develop new leap-ahead capabilities; and grow the national energetics workforce. Therefore, the Committee recommends an increase of \$6,000,000 for energetics technology research. The Committee encourages the Department of the Navy to execute the funding for the necessary efforts with the naval research and development establishment best suited to advance the overall knowledge, expertise, and capability of energetics, and to incorporate these developments into advanced weapon systems.

Silicon Carbide Power Modules Cost Reduction and Qualification.—The Committee supports the recommendations in the 2019 Naval Power and Energy Systems Technology Development Roadmap for the development of advanced power electronics, including silicon carbide power modules, which can reduce the size and weight of power conversion modules and other electronic systems needed to power advanced sensors and weapon systems. The Committee notes the space constraints on many Navy ships and recommends an additional \$10,000,000 for cost reduction and qualification of silicon carbide power modules in order to enable the planned deployment of high-power, mission-critical systems on Navy platforms as early as fiscal year 2022.

Marine Energy Converters for Sensors and Microgrids.—The Committee recognizes that a broader range of experimentation, prototyping, and development is necessary for future naval capabilities related to powering maritime security systems, at-sea persistent surveillance and communications systems, and unmanned undersea vehicle charging. The Committee encourages the Secretary of the Navy and the Navy's affiliated research universities to accelerate the development and incorporation of new novel energy technologies, such as marine hydrokinetic energy converters, for autonomous systems and tactical ashore and at-sea energy solutions. To further these efforts, the Committee recommends an additional \$10,500,000 for research and development of marine energy converters for sensors and microgrids.

Neutron Radiographic Inspection of Cartridge Actuated Devices/Propellant Actuated Devices.—The Committee encourages the Secretary of the Navy to continue neutron radiographic inspection of Cartridge Actuated Devices/Propellant Actuated Devices [CAD/PADs], which provides higher probability of identifying defects in these lifesaving components, and to qualify alternative, non-reactor-based suppliers. To support organic research and mitigate supply chain risk, the Committee urges the Secretary of the Navy to provide for the development and installation of an on-site accelerator-based neutron radiography system to support new product development, failure analysis, and service life monitoring and extensions for CAD/PADs and other energetic devices.

Field-Based Airborne Power Generation Technology Systems.—The committee encourages the Marine Corps to continue efforts towards developing requirements and testing protocols of field-based Airborne Power Generation technology systems.

RESEARCH, DEVELOPMENT, TEST AND EVALUATION, AIR FORCE

Appropriations, 2020	\$45,566,955,000
Budget estimate, 2021	37,391,826,000
Committee recommendation	35,695,255,000

The Committee recommends an appropriation of \$35,695,255,000. This is \$1,696,571,000 below the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

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

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
	RESEARCH, DEVELOPMENT, TEST & EVALUATION, AIR FORCE			
	BASIC RESEARCH			
1	DEFENSE RESEARCH SCIENCES	315,348	315,348	.....
2	UNIVERSITY RESEARCH INITIATIVES	161,861	171,861	+ 10,000
3	HIGH ENERGY LASER RESEARCH INITIATIVES	15,085	15,085	.....
	TOTAL, BASIC RESEARCH	492,294	502,294	+ 10,000
	APPLIED RESEARCH			
4	FUTURE AF CAPABILITIES APPLIED RESEARCH	100,000	80,000	- 20,000
5	MATERIALS	140,781	213,781	+ 73,000
6	AEROSPACE VEHICLE TECHNOLOGIES	349,225	141,726	- 207,499
7	HUMAN EFFECTIVENESS APPLIED RESEARCH	115,222	134,122	+ 18,900
8	AEROSPACE PROPULSION .....	.....	201,415	+ 201,415
9	AEROSPACE SENSORS	211,301	211,301	.....
11	SCIENCE AND TECHNOLOGY MANAGEMENT— MAJOR HEAD- QUARTERS ACTIVITIES	8,926	8,926	.....
12	CONVENTIONAL MUNITIONS	132,425	127,425	- 5,000
13	DIRECTED ENERGY TECHNOLOGY	128,113	130,613	+ 2,500
14	DOMINANT INFORMATION SCIENCES AND METHODS	178,668	215,668	+ 37,000
15	HIGH ENERGY LASER RESEARCH	45,088	24,208	- 20,880
	TOTAL, APPLIED RESEARCH	1,409,749	1,489,185	+ 79,436
	ADVANCED TECHNOLOGY DEVELOPMENT			
17	AF FOUNDATIONAL DEVELOPMENT/DEMOS	103,280	.....	- 103,280
18	FUTURE AF INTEGRATED TECHNOLOGY DEMOS	157,619	101,619	- 56,000
19	NEXT GEN PLATFORM DEV/DEMO	199,556	.....	- 199,556
20	PERSISTENT KNOWLEDGE, AWARENESS, & C2 TECH	102,276	.....	- 102,276
21	NEXT GEN EFFECTS DEV/DEMOS	215,817	.....	- 215,817
22	ADVANCED MATERIALS FOR WEAPON SYSTEMS .....	.....	51,169	+ 51,169
23	SUSTAINMENT SCIENCE AND TECHNOLOGY (S&T) .....	.....	16,933	+ 16,933
24	ADVANCED AEROSPACE SENSORS .....	.....	35,338	+ 35,338
25	AEROSPACE TECHNOLOGY DEV/DEMO .....	.....	57,230	+ 57,230
26	AEROSPACE PROPULSION AND POWER TECHNOLOGY .....	.....	117,492	+ 117,492
27	ELECTRONIC COMBAT TECHNOLOGY .....	.....	35,906	+ 35,906
30	HUMAN EFFECTIVENESS ADVANCED TECHNOLOGY DEVELOP- MENT .....	.....	31,725	+ 31,725
31	CONVENTIONAL WEAPONS TECHNOLOGY .....	.....	134,145	+ 134,145
32	ADVANCED WEAPONS TECHNOLOGY .....	.....	31,445	+ 31,445
33	MANUFACTURING TECHNOLOGY PROGRAM .....	.....	79,001	+ 79,001
34	BATTLESPACE KNOWLEDGE DEVELOPMENT & DEMONSTRATION .....	.....	53,221	+ 53,221
	TOTAL, ADVANCED TECHNOLOGY DEVELOPMENT	778,548	745,224	- 33,324
	ADVANCED COMPONENT DEVELOPMENT			
38	INTELLIGENCE ADVANCED DEVELOPMENT	4,320	4,320	.....
39	COMBAT IDENTIFICATION TECHNOLOGY	26,396	26,396	.....
40	NATO RESEARCH AND DEVELOPMENT	3,647	3,647	.....
41	INTERCONTINENTAL BALLISTIC MISSILE—DEM/VAL	32,959	32,959	.....
43	AIR FORCE WEATHER SERVICES RESEARCH	869	869	.....
44	ADVANCED BATTLE MANAGEMENT SYSTEM (ABMS)	302,323	208,782	- 93,541
45	ADVANCED ENGINE DEVELOPMENT	636,495	633,135	- 3,360
46	LONG RANGE STRIKE—BOMBER	2,848,410	2,848,410	.....
47	DIRECTED ENERGY PROTOTYPING	20,964	19,464	- 1,500
48	HYPersonics PROTOTYPING	381,862	336,862	- 45,000
50	ADVANCED TECHNOLOGY AND SENSORS	24,747	24,747	.....
51	NATIONAL AIRBORNE OPS CENTER [NAOC] RECAP	76,417	59,498	- 16,919
52	TECHNOLOGY TRANSFER	3,011	17,011	+ 14,000
53	HARD AND DEEPLY BURIED TARGET DEFEAT SYSTEM	52,921	52,921	.....
54	CYBER RESILIENCY OF WEAPON SYSTEMS—ACS	69,783	62,648	- 7,135
55	DEPLOYMENT AND DISTRIBUTION ENTERPRISE R&D	25,835	25,835	.....
56	TECH TRANSITION PROGRAM	219,252	284,002	+ 64,750
56A	RAPID SUSTAINMENT MODERNIZATION .....	.....	20,000	+ 20,000

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
57	GROUND BASED STRATEGIC DETERRENT	1,524,759	1,509,759	- 15,000
59	NEXT GENERATION AIR DOMINANCE	1,044,089	974,089	- 70,000
60	THREE DIMENSIONAL LONG-RANGE RADAR (3DELRR)	19,356	10,660	- 8,696
61	AIRBASE AIR DEFENSE SYSTEMS (ABADS)	8,737	8,737	.....
62	UNIFIED PLATFORM (UP)	5,990	5,990	.....
63	COMMON DATA LINK EXECUTIVE AGENT (CDL EA)	39,293	39,293	.....
65	MISSION PARTNER ENVIRONMENTS	11,430	11,430	.....
66	CYBER OPERATIONS TECHNOLOGY DEVELOPMENT	259,823	234,823	- 25,000
67	ENABLED CYBER ACTIVITIES	10,560	10,560	.....
68	C-32 EXECUTIVE TRANSPORT RECAPITALIZATION	9,908	6,208	- 3,700
69	CONTRACTING INFORMATION TECHNOLOGY SYSTEM	8,662	8,662	.....
74	SPACE SYSTEMS PROTOTYPE TRANSITIONS (SSPT)	8,787	.....	- 8,787
77	SPACE SECURITY AND DEFENSE PROGRAM	56,311	.....	- 56,311
	TOTAL, ADVANCED COMPONENT DEVELOPMENT	7,737,916	7,481,717	- 256,199
	ENGINEERING & MANUFACTURING DEVELOPMENT			
82	FUTURE ADVANCED WEAPON ANALYSIS & PROGRAMS	25,161	22,936	- 2,225
83	PNT RESILIENCY, MODS AND IMPROVEMENTS	38,564	38,564	.....
84	NUCLEAR WEAPONS SUPPORT	35,033	26,105	- 8,928
85	ELECTRONIC WARFARE DEVELOPMENT	2,098	2,098	.....
86	TACTICAL DATA NETWORKS ENTERPRISE	131,909	109,909	- 22,000
87	PHYSICAL SECURITY EQUIPMENT	6,752	6,752	.....
88	SMALL DIAMETER BOMB (SDB) —EMD	17,280	.....	- 17,280
90	ARMAMENT/ORDNANCE DEVELOPMENT	23,076	23,076	.....
91	SUBMUNITIONS	3,091	3,091	.....
92	AGILE COMBAT SUPPORT	20,609	20,609	.....
93	JOINT DIRECT ATTACK MUNITION	7,926	6,818	- 1,108
94	LIFE SUPPORT SYSTEMS	23,660	23,660	.....
95	COMBAT TRAINING RANGES	8,898	23,898	+ 15,000
96	F-35—EMD	5,423	17,859	+ 12,436
97	LONG RANGE STANDOFF WEAPON	474,430	444,430	- 30,000
98	ICBM FUZE MODERNIZATION	167,099	156,979	- 10,120
100	OPEN ARCHITECTURE MANAGEMENT	30,547	30,547	.....
102	ADVANCED PILOT TRAINING	248,669	248,669	.....
103	COMBAT RESCUE HELICOPTER	63,169	63,169	.....
105	NUCLEAR WEAPONS MODERNIZATION	9,683	9,683	.....
106	F-15 EPAWSS	170,679	170,679	.....
107	STAND IN ATTACK WEAPON	160,438	150,646	- 9,792
108	FULL COMBAT MISSION TRAINING	9,422	9,422	.....
110	COMBAT SURVIVOR EVADER LOCATOR	973	973	.....
111	KC-46A TANKER SQUADRONS	106,262	76,162	- 30,100
113	VC-25B	800,889	800,889	.....
114	AUTOMATED TEST SYSTEMS	10,673	10,673	.....
115	TRAINING DEVELOPMENTS	4,479	4,479	.....
116	AF A1 SYSTEMS	8,467	7,467	- 1,000
	TOTAL, ENGINEERING & MANUFACTURING DEVELOPMENT	2,615,359	2,510,242	- 105,117
	RDT&E MANAGEMENT SUPPORT			
131	THREAT SIMULATOR DEVELOPMENT	57,725	57,725	.....
132	MAJOR T&E INVESTMENT	208,680	208,680	.....
133	RAND PROJECT AIR FORCE	35,803	35,803	.....
135	INITIAL OPERATIONAL TEST & EVALUATION	13,557	13,557	.....
136	TEST AND EVALUATION SUPPORT	764,606	764,606	.....
137	ACQ WORKFORCE—GLOBAL POWER .....	.....	271,276	+ 271,276
138	ACQ WORKFORCE—GLOBAL VIG & COMBAT SYS .....	.....	255,233	+ 255,233
139	ACQ WORKFORCE—GLOBAL REACH .....	.....	158,429	+ 158,429
140	ACQ WORKFORCE—CYBER, NETWORK, & BUS SYS .....	.....	234,162	+ 234,162
141	ACQ WORKFORCE—GLOBAL BATTLE MGMT .....	.....	177,811	+ 177,811
142	ACQ WORKFORCE—CAPABILITY INTEGRATION	1,362,038	240,868	- 1,121,170
143	ACQ WORKFORCE—ADVANCED PRGM TECHNOLOGY	40,768	58,584	+ 17,816
144	ACQ WORKFORCE—NUCLEAR SYSTEMS	179,646	174,032	- 5,614
145	MANAGEMENT HQ—R&D	5,734	5,734	.....

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
146	FACILITIES RESTORATION AND MODERNIZATION—TEST AND EVALUATION SUPPORT	70,985	70,985	.....
147	FACILITIES SUSTAINMENT—TEST AND EVALUATION SUPPORT	29,880	29,880	.....
148	REQUIREMENTS ANALYSIS AND MATURATION	63,381	63,381	.....
149	MANAGEMENT HQ—T&E	5,785	5,785	.....
150	COMMAND, CONTROL, COMMUNICATION, AND COMPUTERS (C4)—STRATCOM	24,564	24,564	.....
151	ENTERPRISE INFORMATION SERVICES (EIS)	9,883	9,883	.....
152	ACQUISITION AND MANAGEMENT SUPPORT	13,384	13,384	.....
153	GENERAL SKILL TRAINING	1,262	1,262	.....
155	INTERNATIONAL ACTIVITIES	3,599	3,599	.....
	TOTAL, RDT&E MANAGEMENT SUPPORT	2,891,280	2,879,223	− 12,057
	OPERATIONAL SYSTEMS DEVELOPMENT			
163	SPECIALIZED UNDERGRADUATE FLIGHT TRAINING	8,777	8,777	.....
164	DEPLOYMENT & DISTRIBUTION ENTERPRISE R&D	499	499	.....
165	F-35 C2D2	785,336	409,524	− 375,812
165A	F-35 FLIGHT TEST PROGRAM		241,768	+ 241,768
165B	F-35 SUSTAINMENT		19,255	+ 19,255
166	AF INTEGRATED PERSONNEL AND PAY SYSTEM (AF-IPPS) ...	27,035	27,035	.....
167	ANTI-TAMPER TECHNOLOGY EXECUTIVE AGENCY	50,508	50,508	.....
168	FOREIGN MATERIEL ACQUISITION AND EXPLOITATION	71,229	71,229	.....
169	HC/MC-130 RECAP RDT&E	24,705	19,527	− 5,178
170	NC3 INTEGRATION	26,356	26,356	.....
171	ASSESSMENTS AND EVALUATIONS CYBER VULNERABILITIES		3,000	+ 3,000
172	B-52 SQUADRONS	520,023	530,023	+ 10,000
173	AIR-LAUNCHED CRUISE MISSILE [ALCM]	1,433	1,433	.....
174	B-1B SQUADRONS	15,766	15,766	.....
175	B-2 SQUADRONS	187,399	176,399	− 11,000
176	MINUTEMAN SQUADRONS	116,569	89,469	− 27,100
177	WORLDWIDE JOINT STRATEGIC COMMUNICATIONS	27,235	31,223	+ 3,988
178	INTEGRATED STRATEGIC PLANNING & ANALYSIS NETWORK ...	24,227	24,227	.....
179	ICBM REENTRY VEHICLES	112,753	112,753	.....
181	UH-1N REPLACEMENT PROGRAM	44,464	41,464	− 3,000
182	REGION/SECTOR OPERATION CONTROL CENTER MODERNIZATION PROGRAM	5,929	10,724	+ 4,795
183	NORTH WARNING SYSTEM (NWS)	100	100	.....
184	MQ-9 UAV	162,080	107,080	− 55,000
186	A-10 SQUADRONS	24,535	24,535	.....
187	F-16 SQUADRONS	223,437	184,868	− 38,569
188	F-15E SQUADRONS	298,908	298,908	.....
189	MANNED DESTRUCTIVE SUPPRESSION	14,960	14,960	.....
190	F-22A SQUADRONS	665,038	607,038	− 58,000
191	F-35 SQUADRONS	132,229	114,830	− 17,399
192	F-15EX	159,761	159,761	.....
193	TACTICAL AIM MISSILES	19,417	19,417	.....
194	ADVANCED MEDIUM RANGE AIR-TO-AIR MISSILE (AMRAAM)	51,799	51,799	.....
194A	SMALL DIAMETER BOMB [SDB]		20,780	+ 20,780
195	COMBAT RESCUE—PARARESCUE	669	669	.....
196	AF TENCAP	21,644	21,644	.....
197	PRECISION ATTACK SYSTEMS PROCUREMENT	9,261	9,261	.....
198	COMPASS CALL	15,854	15,854	.....
199	AIRCRAFT ENGINE COMPONENT IMPROVEMENT PROGRAM ...	95,896	102,896	+ 7,000
200	JOINT AIR-TO-SURFACE STANDOFF MISSILE [JASSM]	70,792	70,792	.....
201	AIR AND SPACE OPERATIONS CENTER [AOC]	51,187	51,187	.....
202	CONTROL AND REPORTING CENTER [CRC]	16,041	16,041	.....
203	AIRBORNE WARNING AND CONTROL SYSTEM [AWACS]	138,303	138,303	.....
204	AFSPECWAR—TACP	4,223	4,223	.....
206	COMBAT AIR INTELLIGENCE SYSTEM ACTIVITIES	16,564	16,564	.....
207	THEATER BATTLE MANAGEMENT [TBM] C4I	7,858	7,858	.....
208	TACTICAL AIR CONTROL PARTY—MOD	12,906	12,906	.....
210	DCAPES	14,816	14,816	.....
211	AIR FORCE CALIBRATION PROGRAMS	1,970	1,970	.....

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
212	NATIONAL TECHNICAL NUCLEAR FORENSICS	396	396	.....
213	SEEK EAGLE	29,680	29,680	.....
214	USAF MODELING AND SIMULATION	17,666	17,666	.....
215	WARGAMING AND SIMULATION CENTERS	6,353	6,353	.....
216	BATTLEFIELD ABN COMM NODE (BACN)	6,827	6,827	.....
217	DISTRIBUTED TRAINING AND EXERCISES	3,390	3,390	.....
218	MISSION PLANNING SYSTEMS	91,768	91,768	.....
219	TACTICAL DECEPTION	2,370	.....	-2,370
220	OPERATIONAL HQ—CYBER	5,527	5,527	.....
221	DISTRIBUTED CYBER WARFARE OPERATIONS	68,279	68,279	.....
222	AF DEFENSIVE CYBERSPACE OPERATIONS	15,165	30,165	+15,000
223	JOINT CYBER COMMAND AND CONTROL (JCC2)	38,480	38,480	.....
224	UNIFIED PLATFORM (UP)	84,645	84,645	.....
230	GEOBASE	2,767	2,767	.....
231	NUCLEAR PLANNING AND EXECUTION SYSTEM (NPES)	32,759	32,759	.....
238	AIR FORCE SPACE AND CYBER NON—TRADITIONAL ISR FOR BATTLESPACE AWARENESS	2,904	.....	-2,904
239	E-4B NATIONAL AIRBORNE OPERATIONS CENTER (NAOC)	3,468	3,468	.....
240	MINIMUM ESSENTIAL EMERGENCY COMMUNICATIONS NET- WORK (MEECN)	61,887	44,722	-17,165
242	INFORMATION SYSTEMS SECURITY PROGRAM	10,351	20,351	+10,000
243	GLOBAL FORCE MANAGEMENT—DATA INITIATIVE	1,346	1,346	.....
246	AIRBORNE SIGINT ENTERPRISE	128,110	128,110	.....
247	COMMERCIAL ECONOMIC ANALYSIS	4,042	4,042	.....
251	CCMD INTELLIGENCE INFORMATION TECHNOLOGY	1,649	1,649	.....
252	ISR MODERNIZATION & AUTOMATION DVMT (IMAD)	19,265	19,265	.....
253	GLOBAL AIR TRAFFIC MANAGEMENT (GATM)	4,645	4,645	.....
254	CYBER SECURITY INITIATIVE	384	384	.....
255	WEATHER SERVICE	23,640	24,640	+1,000
256	AIR TRAFFIC CONTROL, APPROACH, AND LANDING SYSTEM (ATCAL)	6,553	6,553	.....
257	AERIAL TARGETS	449	449	.....
260	SECURITY AND INVESTIGATIVE ACTIVITIES	432	432	.....
262	DEFENSE JOINT COUNTERINTELLIGENCE ACTIVITIES	4,890	4,890	.....
264	INTEGRATED BROADCAST SERVICE (IBS)	8,864	8,864	.....
265	DRAGON U-2	18,660	36,660	+18,000
267	AIRBORNE RECONNAISSANCE SYSTEMS	121,512	110,512	-11,000
268	MANNED RECONNAISSANCE SYSTEMS	14,711	14,711	.....
269	DISTRIBUTED COMMON GROUND/SURFACE SYSTEMS	14,152	14,152	.....
270	RQ-4 UAV	134,589	163,589	+29,000
271	NETWORK—CENTRIC COLLABORATIVE TARGETING	15,049	15,049	.....
272	NATO AGS	36,731	26,511	-10,220
273	SUPPORT TO DCGS ENTERPRISE	33,547	33,547	.....
274	INTERNATIONAL INTELLIGENCE TECHNOLOGY AND ARCHITEC- TURES	13,635	17,315	+3,680
275	RAPID CYBER ACQUISITION	4,262	4,262	.....
276	PERSONNEL RECOVERY COMMAND & CTRL (PRC2)	2,207	2,207	.....
277	INTELLIGENCE MISSION DATA (IMD)	6,277	6,277	.....
278	C-130 AIRLIFT SQUADRON	41,973	41,973	.....
279	C-5 AIRLIFT SQUADRONS (IF)	32,560	30,560	-2,000
280	C-17 AIRCRAFT (IF)	9,991	9,991	.....
281	C-130J PROGRAM	10,674	10,674	.....
282	LARGE AIRCRAFT IR COUNTERMEASURES [LAIRCM]	5,507	5,507	.....
283	KC-135S	4,591	4,591	.....
286	CV-22	18,419	18,419	.....
288	SPECIAL TACTICS / COMBAT CONTROL	7,673	7,673	.....
290	MAINTENANCE, REPAIR & OVERHAUL SYSTEM	24,513	24,513	.....
291	LOGISTICS INFORMATION TECHNOLOGY [LOGIT]	35,225	31,525	-3,700
292	SUPPORT SYSTEMS DEVELOPMENT	11,838	11,838	.....
293	OTHER FLIGHT TRAINING	1,332	1,332	.....
295	JOINT PERSONNEL RECOVERY AGENCY	2,092	2,092	.....
296	CIVILIAN COMPENSATION PROGRAM	3,869	3,869	.....
297	PERSONNEL ADMINISTRATION	1,584	1,584	.....
298	AIR FORCE STUDIES AND ANALYSIS AGENCY	1,197	1,197	.....

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
299	FINANCIAL MANAGEMENT INFORMATION SYSTEMS DEVELOPMENT	7,006	7,006	.....
300	DEFENSE ENTERPRISE ACNTNG AND MGT SYS (DEAMS)	45,638	34,138	- 11,500
301	GLOBAL SENSOR INTEGRATED ON NETWORK (GSIN)	1,889	.....	- 1,889
302	SERVICE SUPPORT TO STRATCOM—SPACE ACTIVITIES	993	993	.....
303	SERVICE SUPPORT TO SPACECOM ACTIVITIES	8,999	8,999	.....
314	SPACE SUPERIORITY INTELLIGENCE	16,810	.....	- 16,810
316	NATIONAL SPACE DEFENSE CENTER	2,687	.....	- 2,687
318	NCMC—TW/AA SYSTEM	6,990	.....	- 6,990
	TOTAL, OPERATIONAL SYSTEMS DEVELOPMENT	5,688,824	5,395,797	- 293,027
999	CLASSIFIED PROGRAMS	15,777,856	14,691,573	- 1,086,283
	TOTAL, RESEARCH, DEVELOPMENT, TEST & EVALUATION, AIR FORCE	37,391,826	35,695,255	- 1,696,571

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
2	University Research Initiatives	161,861	171,861	+ 10,000
	Program increase: Gigahertz–Terahertz (GHz–THz) electronics and materials research .....	.....	.....	+ 10,000
4	Future AF Capabilities Applied Research	100,000	80,000	- 20,000
	Improving funds management: Forward financing for Transformational Research .....	.....	.....	- 20,000
5	Materials	140,781	213,781	+ 73,000
	Program increase: Certification of advanced composites ..	.....	.....	+ 15,000
	Program increase: Coating technologies .....	.....	.....	+ 10,000
	Program increase: Classified additive manufacturing .....	.....	.....	+ 20,000
	Program increase: High performance material .....	.....	.....	+ 8,000
	Program increase: Technology for broadband operation ....	.....	.....	+ 10,000
	Program increase: Thermal protection for hypersonic vehicles .....	.....	.....	+ 10,000
6	Aerospace Vehicle Technologies	349,225	141,726	- 207,499
	Transfer to line 08: Retain previous budget structure .....	.....	.....	- 203,865
	Transfer to line 26: Retain previous budget structure .....	.....	.....	- 2,434
	Maintain program affordability: Unjustified program growth in Aerospace Power & Flight Control Technology .....	.....	.....	- 1,200
7	Human Effectiveness Applied Research	115,222	134,122	+ 18,900
	Program increase: Human motion assessment .....	.....	.....	+ 4,000
	Program increase: Pilot Hypoxia Detection and Notification .....	.....	.....	+ 9,900
	Program increase: Warfighter physiology program .....	.....	.....	+ 5,000
8	Aerospace Propulsion .....	.....	201,415	+ 201,415
	Transfer from line 06: Retain previous budget structure ..	.....	.....	+ 203,865
	Maintain program affordability: Unjustified program growth in High Power System Technologies .....	.....	.....	- 2,450
12	Conventional Munitions	132,425	127,425	- 5,000
	Maintain program affordability: Unjustified program growth .....	.....	.....	- 5,000
13	Directed Energy Technology	128,113	130,613	+ 2,500
	Program increase: Directed Energy Center of Excellence ..	.....	.....	+ 2,500
14	Dominant Information Sciences and Methods	178,668	215,668	+ 37,000
	Program increase: Quantum communications .....	.....	.....	+ 10,000
	Program increase: Quantum cryptography .....	.....	.....	+ 7,000
	Program increase: Quantum Information Science Innovation Center .....	.....	.....	+ 10,000
	Program increase: UAS traffic management testbed .....	.....	.....	+ 10,000

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
15	High Energy Laser Research	45,088	24,208	-20,880
	Improving funds management: Forward financing			-20,880
17	AF Foundational Development/Demos	103,280		-103,280
	Transfer to line 22: Retain previous budget structure			-35,169
	Transfer to line 23: Retain previous budget structure			-16,933
	Transfer to line 30: Retain previous budget structure			-10,777
	Transfer to line 33: Retain previous budget structure			-40,401
18	Future AF Integrated Technology Demos	157,619	101,619	-56,000
	Restoring acquisition accountability: Unjustified request for Future Transformational Capabilities			-20,000
	Transfer to line 56: Accelerate transition of Golden Horde			-36,000
19	Next Gen Platform Dev/Demo	199,556		-199,556
	Transfer to line 25: Retain previous budget structure			-37,230
	Transfer to line 26: Retain previous budget structure			-105,058
	Transfer to RDTE,SF line 11B: Retain previous budget structure in RDTE,SF			-57,268
20	Persistent Knowledge, Awareness, & C2 Tech	102,276		-102,276
	Transfer to line 24: Retain previous budget structure			-35,338
	Transfer to line 27: Retain previous budget structure			-4,699
	Transfer to RDTE,SF line 11C: Retain previous budget structure in RDTE,SF			-12,090
	Transfer to line 30: Retain previous budget structure			-20,948
	Transfer to line 34: Retain previous budget structure			-29,201
21	Next Gen Effects Dev/Demos	215,817		-215,817
	Transfer to line 27: Retain previous budget structure			-31,207
	Transfer to line 31: Retain previous budget structure			-134,145
	Transfer to line 32: Retain previous budget structure			-31,445
	Transfer to line 34: Retain previous budget structure			-19,020
22	Advanced Materials for Weapon Systems		51,169	+51,169
	Transfer from line 17: Retain previous budget structure ..			+35,169
	Program increase: Additive manufacturing for aerospace components			+5,000
	Program increase: Advanced ballistic eyewear			+2,000
	Program increase: Metals affordability research			+9,000
23	Sustainment Science and Technology (S&T)		16,933	+16,933
	Transfer from line 17: Retain previous budget structure ..			+16,933
24	Advanced Aerospace Sensors		35,338	+35,338
	Transfer from line 20: Retain previous budget structure ..			+35,338
25	Aerospace Technology Dev/Demo		57,230	+57,230
	Transfer from line 19: Retain previous budget structure ..			+37,230
	Program increase: Agility Prime			+20,000
26	Aerospace Propulsion and Power Technology		117,492	+117,492
	Transfer from line 19: Retain previous budget structure ..			+105,058
	Transfer from line 6: Retain previous budget structure ...			+2,434
	Program increase: Silicon carbide research			+10,000
27	Electronic Combat Technology		35,906	+35,906
	Transfer from line 20: Retain previous budget structure ..			+4,699
	Transfer from line 21: Retain previous budget structure ..			+31,207
30	Human Effectiveness Advanced Technology Development		31,725	+31,725
	Transfer from line 17: Retain previous budget structure ..			+10,777
	Transfer from line 20: Retain previous budget structure ..			+20,948
31	Conventional Weapons Technology		134,145	+134,145
	Transfer from line 21: Retain previous budget structure ..			+134,145
32	Advanced Weapons Technology		31,445	+31,445
	Transfer from line 21: Retain previous budget structure ..			+31,445
33	Manufacturing Technology Program		79,001	+79,001
	Transfer from line 17: Retain previous budget structure ..			+40,401
	Program increase: Automated fiber placement for composite structures			+5,000
	Program increase: F-35 battery technology			+9,600
	Program increase: Hypersonic manufacturing capability and supply			+6,000
	Program increase: Low cost manufacturing methods for hypersonic vehicle components			+8,000

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
	Program Increase: Modeling technology for small turbine engines			+ 5,000
	Program increase: Technologies to repair fastener holes ..			+ 5,000
34	Battlespace Knowledge Development and Demonstration		53,221	+ 53,221
	Transfer from line 20: Retain previous budget structure ..			+ 29,201
	Transfer from line 21: Retain previous budget structure ..			+ 19,020
	Program increase: Command and control capability development			+ 5,000
44	Advanced Battle Management System (ABMS)	302,323	208,782	- 93,541
	Insufficient budget justification: Poor justification materials			- 15,000
	Improving funds management: Forward financing of Digital Architecture			- 1,825
	Improving funds management: Forward financing of Sensor Integration			- 10,650
	Improving funds management: Forward financing of Data			- 5,603
	Improving funds management: Forward financing of Secure Processing			- 18,148
	Improving funds management: Forward financing of Connectivity			- 11,102
	Improving funds management: Forward financing of Apps			- 4,996
	Improving funds management: Forward financing of Effects Integration			- 2,743
	Improving funds management: Forward financing of Onramps			- 23,474
45	Advanced Engine Development	636,495	633,135	- 3,360
	Restoring acquisition accountability: Adaptive Engine Transition Program program management			- 3,360
47	Directed Energy Prototyping	20,964	19,464	- 1,500
	Improving funds management: Forward financing of support costs			- 1,500
48	Hypersonics Prototyping	381,862	336,862	- 45,000
	Restoring acquisition accountability: ARRW schedule delays			- 45,000
51	National Airborne Ops Center [NAOC] Recap	76,417	59,498	- 16,919
	Maintain program affordability: Unjustified growth in management services			- 2,635
	Restoring acquisition accountability: Acquisition Strategy			- 14,284
52	Technology Transfer	3,011	17,011	+ 14,000
	Program increase: Academic partnership intermediary agreement tech transfer			+ 10,000
	Program increase: Technology partnerships			+ 4,000
54	Cyber Resiliency of Weapon Systems—ACS	69,783	62,648	- 7,135
	Insufficient budget justification: Unjustified growth in Cyber Mitigation Prototyping			- 7,135
56	Tech Transition Program	219,252	284,002	+ 64,750
	Transfer from line 18: Accelerate transition of Golden Horde			+ 36,000
	Program increase: Arctic communications			+ 50,000
	Program increase: Autonomous air combat operations			+ 5,000
	Program increase: Heavy payload, solar powered UAS JCTD			+ 15,000
	Program increase: Logistics technologies			+ 8,750
	Program increase: Low-cost attritable aircraft technology			+ 50,000
	Restoring acquisition accountability: Acquisition strategy for additional prototyping activities			- 100,000
56A	Rapid Sustainment Modernization		20,000	+ 20,000
	Program increase: Rapid sustainment office			+ 20,000
57	Ground Based Strategic Deterrent	1,524,759	1,509,759	- 15,000
	Restoring acquisition accountability: Acquisition Strategy for planning and design			- 15,000
59	Next Generation Air Dominance	1,044,089	974,089	- 70,000
	Improving funds management: Forward financing of development efforts			- 70,000

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
60	Three Dimensional Long-Range Radar (3DELRR)	19,356	10,660	- 8,696
	Improving funds management: Prior year carryover			- 8,696
66	Cyber Operations Technology Development	259,823	234,823	- 25,000
	Improving funds management: Prior year carryover			- 25,000
68	C-32 Executive Transport Recapitalization	9,908	6,208	- 3,700
	Improving funds management: Prior year carryover			- 3,700
74	Space Systems Prototype Transitions (SSPT)	8,787		- 8,787
	Transfer: Air Force requested transfer to RDTE,SF line 6 ..			- 8,787
77	Space Security and Defense Program	56,311		- 56,311
	Transfer: Air Force requested transfer to RDTE,SF line 11A			- 56,311
82	Future Advanced Weapon Analysis & Programs	25,161	22,936	- 2,225
	Improving funds management: Forward financing			- 2,225
84	Nuclear Weapons Support	35,033	26,105	- 8,928
	Improving funds management: Forward financing for Nu-			
	clear Weapon System Technology and Integration			- 4,670
	Improving funds management: Forward financing for Nu-			
	clear Weapons Support			- 2,273
	Improving funds management: Prior year carryover for			
	Nuclear Weapons Support			- 1,985
86	Tactical Data Networks Enterprise	131,909	109,909	- 22,000
	Restoring acquisition accountability: Acquisition strategy			
	Family of gateways			- 22,000
88	Small Diameter Bomb [SDB] —EMD	17,280		- 17,280
	Transfer: Air Force requested transfer to line 194A			- 17,280
93	Joint Direct Attack Munition	7,926	6,818	- 1,108
	Maintain program affordability: Unjustified program			
	growth in PMA			- 1,108
95	Combat Training Ranges	8,898	23,898	+ 15,000
	Program increase: Training range instrumentation			+ 15,000
96	F-35—EMD	5,423	17,859	+ 12,436
	Transfer from line 165			+ 12,436
97	Long Range Standoff Weapon	474,430	444,430	- 30,000
	Restoring acquisition accountability: Acquisition strategy			- 30,000
98	ICBM Fuze Modernization	167,099	156,979	- 10,120
	Improving funds management: Forward financing			- 10,120
107	Stand In Attack Weapon	160,438	150,646	- 9,792
	Improving funds management: Forward financing F-35			
	integration			- 9,792
111	KC-46A Tanker Squadrons	106,262	76,162	- 30,100
	Improving funds management: Forward financing			- 21,900
	Maintain program affordability: Unjustified program			
	growth			- 8,200
116	AF A1 Systems	8,467	7,467	- 1,000
	Maintain program affordability: Management services			- 1,000
137	Acq Workforce- Global Power		271,276	+ 271,276
	Transfer from line 142: Retain previous budget structure			+ 273,231
	Improving funds management: Prior year carryover of Ci-			
	vilian Pay			- 1,955
138	Acq Workforce- Global Vig & Combat Sys		255,233	+ 255,233
	Transfer from line 142: Retain previous budget structure			+ 262,119
	Improving funds management: Prior year carryover of Ci-			
	vilian Pay			- 6,886
139	Acq Workforce- Global Reach		158,429	+ 158,429
	Transfer from line 142: Retain previous budget structure			+ 158,429
140	Acq Workforce- Cyber, Network, & Bus Sys		234,162	+ 234,162
	Transfer from line 142: Retain previous budget structure			+ 247,468
	Improving funds management: Prior year carryover of Ci-			
	vilian Pay			- 766
	Improving funds management: Overestimation of pro-			
	jected civilian position			- 12,540
141	Acq Workforce- Global Battle Mgmt		177,811	+ 177,811
	Transfer from line 142: Retain previous budget structure			+ 183,107
	Improving funds management: Prior year carryover of Ci-			
	vilian Pay			- 3,898

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
	Improving funds management: Overestimation of projected civilian position			- 1,398
142	Acq Workforce- Capability Integration	1,362,038	240,868	- 1,121,170
	Transfer to line 137: Retain previous budget structure			- 273,231
	Transfer to line 138: Retain previous budget structure			- 262,119
	Transfer to line 139: Retain previous budget structure			- 158,429
	Transfer to line 140: Retain previous budget structure			- 247,468
	Transfer to line 141: Retain previous budget structure			- 183,107
	Transfer to line 143: Retain previous budget structure			- 17,816
	Program increase: Business enterprise systems product innovation			+ 21,000
143	Acq Workforce- Advanced Prgm Technology	40,768	58,584	+ 17,816
	Transfer from line 142: Retain previous budget structure			+ 17,816
144	Acq Workforce- Nuclear Systems	179,646	174,032	- 5,614
	Improving funds management: Overestimation of projected civilian position			- 5,614
165	F-35 C2D2	785,336	409,524	- 375,812
	Transfer to line 96: Conduct SDD closure efforts in EMD program element			- 12,436
	Transfer to line 165A for F-35 C2D2 budget restructure: F-35 Flight Test Program			- 282,953
	Transfer to line 165B for F-35 C2D2 budget restructure: F-35 Sustainment			- 42,655
	F-35 C2D2 project realignment			- 447,292
	F-35 C2D2 project realignment: Phase II			+ 193,126
	F-35 C2D2 project realignment: TR-3			+ 101,293
	F-35 C2D2 project realignment: DT A/C viability			+ 33,975
	F-35 C2D2 project realignment: Training investments			+ 26,578
	F-35 C2D2 project realignment: C2D2 projects			+ 10,118
	F-35 C2D2 project realignment: IPT projects			+ 23,504
	F-35 C2D2 project realignment: Fixed JPO support			+ 42,790
	F-35 C2D2 project realignment: Statutory reductions			+ 15,908
	Program increase: F-35 JASSM integration			+ 10,000
	Maintain program affordability: Unjustified program growth in Phase II efforts			- 29,518
	Improving funds management: Forward financing of Fixed JPO support			- 9,118
	Restoring acquisition accountability: Fixed JPO support			- 6,734
	Maintain program affordability: Unjustified program growth in Statutory reductions			- 2,398
165A	F-35 Flight Test Program		241,768	+ 241,768
	Transfer from line 165 for F-35 C2D2 budget restructure: Flight test, labs and support			+ 140,944
	Transfer from line 165 for F-35 C2D2 budget restructure: Flight test assets			+ 22,654
	Transfer from line 165 for F-35 C2D2 budget restructure: Organic flight test support			+ 85,415
	Transfer from line 165 for F-35 C2D2 budget restructure: Labs/JSE			+ 23,877
	Transfer from line 165 for F-35 C2D2 budget restructure: Statutory reductions F-35 Flight Test Program			+ 10,063
	Insufficient budget justification: Contradiction in justification books/briefs for flight test, labs and support			- 39,298
	Maintain program affordability: Unjustified program growth in Statutory reductions			- 1,887
165B	F-35 Sustainment		19,255	+ 19,255
	Transfer from line 165 for F-35 C2D2 budget restructure: ALIS LM Efforts			+ 18,654
	Transfer from line 165 for F-35 C2D2 budget restructure: ALIS NEXT			+ 6,949
	Transfer from line 165 for F-35 C2D2 budget restructure: ALIS Agile DevOps			+ 15,535
	Transfer from line 165 for F-35 C2D2 budget restructure: Statutory reductions F-35 Sustainment			+ 1,517

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
	Restoring acquisition accountability: Acquisition Strategy for ALIS LM Efforts			-16,913
	Maintain program affordability: Unjustified program growth in ALIS NEXT			-1,737
	Maintain program affordability: Unjustified program growth in ALIS Agile DevOps			-3,884
	Maintain program affordability: Unjustified program growth in Statutory reductions			-866
169	HC/MC-130 Recap RDT&E	24,705	19,527	-5,178
	Restoring acquisition accountability: Acquisition strategy of Block 8.X			-3,066
	Improving funds management: Forward financing			-2,112
171	Assessments and Evaluations Cyber Vulnerabilities		3,000	+3,000
	Program increase: Ransomware response exercise			+3,000
172	B-52 Squadrons	520,023	530,023	+10,000
	Program increase: Global Strike Innovation Hub			+10,000
175	B-2 Squadrons	187,399	176,399	-11,000
	Improving funds management: Prior year carryover			-11,000
176	Minuteman Squadrons	116,569	89,469	-27,100
	Restoring acquisition accountability: Concurrency of FT3 Development			-25,600
	Restoring acquisition accountability: Schedule slip of APT-R			-1,500
177	Worldwide Joint Strategic Communications	27,235	31,223	+3,988
	Program increase: NC3 architecture development			+8,000
	Restoring acquisition accountability: Delay in test events			-4,012
181	UH-1N Replacement Program	44,464	41,464	-3,000
	Maintain program affordability: Unjustified program growth in A&AS			-3,000
182	Region/Sector Operation Control Center Modernization Program Transfer ERSA:u Air Force-requested from OPAF line 33 ..	5,929	10,724	+4,795
184	MQ-9 UAV	162,080	107,080	-55,000
	Restoring acquisition accountability: Acquisition Strategy			-55,000
187	F-16 Squadrons	223,437	184,868	-38,569
	Transfer: Air Force-requested transfer from APAF line 30 for AIFF Mode 5			+9,868
	Improving funds management: Forward financing in DRWR			-40,000
	Improving funds management: AESA JEON prior year carryover			-8,437
190	F-22A Squadrons	665,038	607,038	-58,000
	Restoring acquisition accountability: Sensor systems schedule delay			-58,000
191	F-35 Squadrons	132,229	114,830	-17,399
	Insufficient budget justification: Unjustified growth in BPAC 676011			-17,399
194A	Small Diameter Bomb [SDB]		20,780	+20,780
	Transfer: Air Force requested transfer from line 88			+17,280
	Program increase: Precise navigation			+3,500
199	Aircraft Engine Component Improvement Program	95,896	102,896	+7,000
	Program increase: Aircraft engine CIP			+7,000
219	Tactical Deception	2,370		-2,370
	Improving funds management: Forward financing of Non-Kinetic Air Base Defense			-2,370
222	AF Defensive Cyberspace Operations	15,165	30,165	+15,000
	Program increase: Critical infrastructure cyber security ..			+15,000
238	Air Force Space and Cyber Non-Traditional ISR for Battlespace Awareness	2,904		-2,904
	Improving funds management: Forward financing of TAC OPIR Processing			-2,904
240	Minimum Essential Emergency Communications Network (MEECN)	61,887	44,722	-17,165
	Restoring acquisition accountability: Acquisition strategy for GASNT Inc 2			-14,215

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
	Restoring acquisition accountability: CVR increment 2 schedule delays			-2,950
242	Information Systems Security Program	10,351	20,351	+10,000
	Program increase: Cyber scholarships for senior military colleges			+10,000
255	Weather Service	23,640	24,640	+1,000
	Program increase: Research on atmospheric rivers			+1,000
265	Dragon U-2	18,660	36,660	+18,000
	Transfer: Air Force requested transfer to line 267			+18,000
267	Airborne Reconnaissance Systems	121,512	110,512	-11,000
	Transfer: Air Force requested transfer from line 265			-18,000
	Program increase: Wide area surveillance			+7,000
270	RQ-4 UAV	134,589	163,589	+29,000
	Program increase: RQ-4 Block 40 waypoint modification capability			+29,000
272	NATO AGS	36,731	26,511	-10,220
	Restoring acquisition accountability: Airworthiness schedule delay			-10,220
274	International Intelligence Technology and Architectures	13,635	17,315	+3,680
	Program Increase: Pacific Deterrence Initiative—Mission Partner Environment BICES-X Project 675898			+3,680
279	C-5 Airlift Squadrons (IF)	32,560	30,560	-2,000
	Maintain program affordability: Unjustified program growth in PMA			-2,000
291	Logistics Information Technology [LOGIT]	35,225	31,525	-3,700
	Improving funds management: Prior year carryover			-3,700
300	Defense Enterprise Acntng and Mgt Sys (DEAMS)	45,638	34,138	-11,500
	Restoring acquisition accountability: Delay in product development			-11,500
301	Global Sensor Integrated on Network (GSIN)	1,889		-1,889
	Transfer: Air Force requested transfer to RDTE,SF line 26			-1,889
314	Space Superiority Intelligence	16,810		-16,810
	Transfer: Air Force requested transfer to RDTE,SF line 41B			-16,810
316	National Space Defense Center	2,687		-2,687
	Transfer: Air Force requested transfer to RDTE,SF line 41A			-2,687
318	NCMC—TW/AA System	6,990		-6,990
	Transfer: Air Force requested transfer to RDTE,SF line 41C			-6,990
999	Classified Programs	15,777,856	14,691,573	-1,086,283
	Classified adjustment			-1,086,283

Program Element Consolidation.—The fiscal year 2021 President’s budget request proposed a consolidation of the 2 existing Aerospace Systems Applied Research Budget Activity program elements into a single program element, a consolidation of 13 existing Advanced Technology Development Budget Activity program elements into five program elements, and a consolidation of 7 Acquisition Workforce program elements into a single program element that the Air Force believes would increase the efficiency, effectiveness, and transparency of integrated technology development and transformational capability development.

The Committee supports the creation of the Future Air Force Integrated Technology Demonstration program element as it provides clarity and transparency of the Air Force Vanguard programs. The Committee notes that the remainder of the proposal consolidates several program elements into a few larger program elements that it believes would provide unprecedented programmatic and fiscal flexibility, allowing the Air Force to move funds between programs without Congressional engagement or oversight. Therefore, the Committee rejects the proposal to consolidate multiple program ele-

ments and recommends retaining the existing program element budget structure. The Assistant Secretary of the Air Force (Financial Management and Comptroller) is directed to follow this budget structure in future budget submissions until changes are agreed to by the House and Senate Appropriations Committees.

Acquisition Workforce.—The Committee appreciates the ongoing dialogue with the Air Force regarding the level of information related to civilian pay contained in the budget justification material. The Committee notes that the level of detail varies between line items within the Research, Development, Test and Evaluation [RDTE], Air Force appropriation. With the submission of the fiscal year 2022 President's budget request, the Committee directs the Secretary of the Air Force to include, at a minimum, the following data points for each RDTE, Air Force line item that contains civilian pay: (1) the number of civilian full time equivalents; (2) total compensation and benefits; and (3) the average salary. For each of the data points, the Secretary of the Air Force is also directed to include the actual amounts for the previous fiscal year, the enacted amounts for the current fiscal year, and the requested amount for the fiscal year 2022 President's budget request.

Further, the Committee is concerned that the Assistant Secretary of the Air Force (Financial Management and Comptroller) is using prior year unexecuted civilian pay funds for non-pay requirements. The Committee expects excess prior year funds to be applied to civilian pay shortfalls before requesting additional funds through reprogrammings.

Warfighter Physiology Program.—The Committee recognizes that physiological performance is a key factor in warfighter mission readiness. The Committee supports the Secretary of the Air Force's efforts to develop and deploy wearable and other sensor technologies to monitor the physiological condition of warfighters, but notes a capability gap to predict operational human performance and aid in decisionmaking. The Committee recommends an additional \$5,000,000 above the fiscal year 2021 President's budget request to develop and refine physiological algorithms that will provide measures of real-time human performance and operational readiness when accompanied with current and future sensor technologies.

Directed Energy Center of Excellence.—The Committee is pleased that the Department is increasingly focused on the threats and challenges of directed energy, including directed energy microwaves and lasers. Given the large, skilled workforce needed in this critical area in the future, the Committee supports greater collaboration between universities and defense labs and encourages the Secretary of the Air Force to establish one or more centers focused on directed energy research, education, testing, and technology transfer. The Committee recommends an additional \$2,500,000 above the fiscal year 2021 President's budget request to develop a Directed Energy Center of Excellence.

Golden Horde Acceleration.—The Committee notes the relative maturity of the Golden Horde technologies and believes the work should transition to the Advanced Component Development and Prototypes budget activity for demonstration, prototyping, and experimentation activities. Therefore, the Committee recommends a

transfer of \$36,000,000 to the Tech Transition Program, program element 0604858F, to accelerate the Golden Horde development.

Additive Manufacturing for Aerospace Components.—The Committee notes the benefits additive manufacturing via metal printing provides to the aerospace manufacturing processes to build systems with unparalleled complexity that cannot be emulated with traditional manufacturing processes. Advances in metal additive manufacturing will allow the delivery of new weapons systems and vehicles with unique performance and efficiency. The Committee recommends an additional \$5,000,000 above the fiscal year 2021 President's budget request to enable the additive manufacture of components uniquely tailored for larger scale aerospace propulsion fabrication.

Silicon Carbide Research.—The Committee understands that increasing electric power loads for military systems requires high-temperature and high-efficiency power electronics to reduce weight, increase energy efficiency, and improve system performance. The Committee further understands that silicon carbide-based power semiconductors have been identified as an enabling technology that meets the Department of Defense requirements for power distribution and management. The Committee notes that successful development of silicon carbide power electronics requires maturation of a domestic supply chain. The Committee encourages the Air Force to look for opportunities to accelerate the development of actual components to go into military electrical systems, especially very high-current, high junction temperature, high-speed silicon carbide power modules. Therefore, the Committee recommends an additional \$10,000,000 above the fiscal year 2021 President's budget request for these purposes.

Maintenance and Repair Technology Development.—The Committee understands that novel technologies for maintenance, repair, and overhaul lag behind technology development for defense products. As the Department of Defense increases procurement for critical air platforms it should also consider novel capabilities that ensure Air Force aircraft remain available for maximum readiness.

Modeling Technology for Small Turbine Engines.—The Committee recognizes the growing need for affordable small to medium class turbine engines for unmanned aircraft systems, decoys, missiles, and other applications. The Committee recommends an additional \$5,000,000 above the fiscal year 2021 President's budget request to initiate development of the advanced modeling technology required to affordably manufacture small and medium turbine engines.

Advanced Battle Management System.—The fiscal year 2021 President's budget request includes \$302,323,000 for Advanced Battle Management System [ABMS], an increase of \$157,832,000 over amounts appropriated for fiscal year 2020. While the Committee continues to support the Air Force's new approach to command and control, the Committee notes that the ABMS requirements and acquisition strategy remain unclear. The Committee recommends \$208,782,000, an increase of \$50,950,000 over amounts appropriated in fiscal year 2020, to allow for continued program progress and directs the Assistant Secretary of the Air Force (Acquisition, Technology & Logistics) to provide with the fiscal year

2022 President's request the ABMS acquisition strategy; in addition, the Assistant Secretary of the Air Force (Financial Management and Comptroller) is directed to certify that the fiscal year 2022 President's budget fully funds said acquisition strategy.

Further, with the submission of the fiscal year 2022 budget request, the Committee directs the Secretary of the Air Force to submit a report summarizing all related programs in communications, battle management command and control, and sensors that fall within the ABMS umbrella across the Future Years Defense Program. The report should reference program element funding lines and clearly link all activities with funding lines in the fiscal year 2022 budget justification documents. It should also clearly articulate all phase one efforts, including initial operational capability timelines, the status of related legacy activities, and linkages to classified activities.

Technology Transfer.—The Committee recognizes the importance of technology transfer between the Federal government and non-Federal entities. The Committee encourages the Secretary of Defense to place an increased focus on transferring innovations from its laboratories by allocating sufficient funding for technology transfer partnerships and programs. Licensing federally funded inventions and entering into cooperative agreements with industry lowers the cost of new defense-related technology development and ensures that taxpayer investments in research and development benefit the economy and the industrial base.

Low-Cost Attributable Aircraft Technology.—The Committee supports the intent of the Assistant Secretary of the Air Force for Acquisition, Technology, and Logistics in accelerating the Air Force Research Laboratory's Low-Cost Attributable Aircraft Technology [LCAAT] program for collaborative pairing with manned platforms. The Committee views the combined application of commercial technology, autonomy, and artificial intelligence as imperative for solving current military challenges. Teams of low-cost collaborative systems provide new mechanisms to ensure survivability and mission success without leveraging exquisite technology and its associated high cost and long development timelines.

Integration and technology demonstrations reduce the risk and time required to transition technologies into operational systems. Accordingly, the Committee recommends an additional \$50,000,000 above the fiscal year 2021 President's budget request to conduct prototyping necessary to transition the LCAAT demonstrator aircraft system into a fully operational capability.

Ground Based Strategic Deterrence.—As part of its fiscal year 2021 budget submission, the Air Force provided the congressional defense committees with a legislative proposal to carry out the activities associated with the recapitalization of the Nation's ground based nuclear missile systems. The legislative proposal for ground based strategic deterrence [GBSD] as envisioned would allow for the use of research, development, test and evaluation [RDT&E] funding for planning and design activities, and would utilize procurement funding to replace the existing launch control and launch facilities both in lieu of military construction funding. The Committee appreciates the enormous undertaking required to execute the GBSD program, which entails replacement of the minuteman

missile fleet, and replacement of 450 launch facility sites and 45 launch center sites across five states. While supportive of the plan to date, the Committee does not support the legislative proposal at this time.

While the Committee recognizes that there could be schedule risk in using a traditional military construction approach, the Committee believes that the legislative proposal is not the only option. The Committee supports efforts to group projects whether by installation, air wing, or other grouping and expects the Air Force to designate a way forward for ease of management and execution. The Committee also supports efforts to utilize an approach where the single prime vendor may be designated to execute military construction projects in coordination with the Army Corps of Engineers. Due to the scale of this endeavor and the importance of maintaining our nuclear deterrence, the Secretary of the Air Force shall designate a senior leader to plan, coordinate, and execute the military construction, RDT&E, and procurement functions with the ability to impact each appropriation as needed. Finally, the Secretary of the Air Force is directed to submit to the House and Senate Appropriations Committees not later than 180 days after enactment of this act a detailed report outlining the replacement plan for the launch control and launch facilities while maintaining the required readiness posture.

Use of Research, Development, Test and Evaluation Appropriations.—The fiscal year 2021 President’s budget request includes \$15,000,000 in Research, Development, Test and Evaluation, Air Force funding to be used as planning and design for construction associated with the GBSD program. The Committee does not agree with this proposed use of research and development funds, nor the associated legislative proposals, and recommends a reduction to the budget request accordingly. Further, the Committee directs that none of the funds appropriated in this act for research, development, test and evaluation may be used for military construction activities, unless expressly allowed in this act.

Rapid Sustainment Office.—The Committee recognizes the complex array of sustainment challenges for the Air Force fleet of aircraft ranging from unexpected replacement of parts and repairs, delays in depot maintenance, parts obsolescence, and the diminishing manufacturing sources required to get mission capable rates to acceptable levels. The Committee also understands the importance of the role of modern-day digital engineering with respect to enabling faster and more cost-effective supply of replacement parts to maintain desired mission-capable readiness levels in the future. The Committee recommends an additional \$20,000,000 above the fiscal year 2021 President’s budget request to support a digital transformation of the existing legacy Air Force fleet to increase the operational readiness levels in the future.

Combat Training Ranges.—The Committee is aware of Air Force efforts to upgrade capability across its training ranges to provide improved combat effectiveness. The Committee notes the reduction in funding from previous years and is concerned that the fiscal year 2021 President’s budget request is insufficient to address training range capability shortfalls. The Committee recommends

an additional \$15,000,000 to upgrade training range instrumentation.

Gorgon Stare Wide Area Surveillance.—The fiscal year 2021 President’s budget request contained no funding in Research, Development, Test and Evaluation, Air Force for continued development of Gorgon Stare wide area motion imagery surveillance capabilities. The Committee notes that the Gorgon Stare systems support multiple daily orbits in the Central Command area of operations with critical intelligence, surveillance, and reconnaissance, and that other combatant commands have requested Gorgon Stare capability. The Committee is pleased that prior year congressional funding has resulted in the system developing beyond line-of-sight communications, near-vertical direction finding, and multi-intelligence capabilities. Therefore, the Committee recommends an additional \$7,000,000 to enhance the Gorgon Stare system.

RESEARCH, DEVELOPMENT, TEST AND EVALUATION, SPACE FORCE

Appropriations, 2020	
Budget estimate, 2021	\$10,327,595,000
Committee recommendation	10,434,327,000

The Committee recommends an appropriation of \$10,434,327,000. This is \$106,732,000 above the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

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

(In thousands of dollars)

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
	RESEARCH, DEVELOPMENT, TEST & EVALUATION, SPACE FORCE			
1	APPLIED RESEARCH			
	SPACE TECHNOLOGY	130,874	187,874	+ 57,000
	TOTAL, APPLIED RESEARCH	130,874	187,874	+ 57,000
	COMPONENT DEVELOPMENT & PROTOTYPES			
2	GLOBAL POSITIONING SYSTEM USER EQUIPMENT	390,704	380,704	– 10,000
3	EO/IR WEATHER SYSTEMS	131,000	131,000	
4	WEATHER SYSTEM FOLLOW-ON	83,384	83,384	
5	SPACE SITUATION AWARENESS SYSTEM	33,359	33,359	
6	SPACE SYSTEMS PROTOTYPE TRANSITIONS (SSPT)	142,808	151,595	+ 8,787
7	SPACE CONTROL TECHNOLOGY	35,575	35,575	
8	PROTECTED TACTICAL ENTERPRISE SERVICE (PTES)	114,390	114,390	
9	PROTECTED TACTICAL SERVICE (PTS)	205,178	205,178	
10	EVOLVED STRATEGIC SATCOM (ESS)	71,395	71,395	
11	SPACE RAPID CAPABILITIES OFFICE	103,518	108,518	+ 5,000
11A	SPACE SECURITY AND DEFENSE PROGRAMS (SSDP)		56,311	+ 56,311
11B	ADVANCED SPACECRAFT TECHNOLOGY		87,768	+ 87,768
11C	MAUI SPACE SURVEILLANCE SYSTEMS		12,090	+ 12,090
	TOTAL, COMPONENT DEVELOPMENT & PROTOTYPES	1,311,311	1,471,267	+ 159,956
	SYSTEM DEVELOPMENT & DEMONSTRATION			
12	GPS III FOLLOW-ON (GPS IIIF)	263,496	285,496	+ 22,000
13	SPACE SITUATION AWARENESS OPERATIONS	41,897	31,897	– 10,000
14	COUNTERSPACE SYSTEMS	54,689	57,189	+ 2,500
15	WEATHER SYSTEM FOLLOW-ON	2,526	2,526	

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
16	SILENTBARKER	173,074	173,074	.....
17	ADVANCED EHF MILSATCOM (SPACE)	138,257	85,045	- 53,212
17A	COMMERCIAL SATCOM .....	.....	43,212	+ 43,212
18	POLAR MILSATCOM (SPACE)	190,235	190,235	.....
19	NEXT GENERATION OPIR	2,318,864	2,318,864	.....
20	NATIONAL SECURITY SPACE LAUNCH PROGRAM (SPACE)—EMD	560,978	450,978	- 110,000
	TOTAL, SYSTEM DEVELOPMENT & DEMONSTRATION	3,744,016	3,638,516	- 105,500
	RTD&E MANAGEMENT SUPPORT			
21	SPACE TEST AND TRAINING RANGE DEVELOPMENT	20,281	20,281	.....
22	ACQ WORKFORCE—SPACE & MISSILE SYSTEMS	183,930	183,930	.....
23	SPACE & MISSILE SYSTEMS CENTER—MHA	9,765	9,765	.....
24	ROCKET SYSTEMS LAUNCH PROGRAM (SPACE)	17,993	17,993	.....
25	SPACE TEST PROGRAM (STP)	26,541	26,541	.....
	TOTAL, RTD&E MANAGEMENT SUPPORT	258,510	258,510	.....
	OPERATIONAL SYSTEMS DEVELOPMENT			
26	GLOBAL SENSOR INTEGRATED ON NETWORK (GSIN)	3,708	5,597	+ 1,889
27	FAMILY OF ADVANCED BLOS TERMINALS (FAB—T)	247,229	234,729	- 12,500
28	SATELLITE CONTROL NETWORK (SPACE)	75,480	75,480	.....
29	NAVSTAR GLOBAL POSITIONING SYSTEM (SPACE AND CONTROL SEGMENTS)	1,984	1,984	.....
30	SPACE AND MISSILE TEST EVALUATION CENTER	4,397	4,397	.....
31	SPACE INNOVATION, INTEGRATION AND RAPID TECHNOLOGY DEVELOPMENT	44,746	38,746	- 6,000
32	SPACELIFT RANGE SYSTEM (SPACE)	11,020	21,020	+ 10,000
33	GPS III SPACE SEGMENT	10,777	10,777	.....
34	BALLISTIC MISSILE DEFENSE RADARS	28,179	28,179	.....
35	NUDET DETECTION SYSTEM (SPACE)	29,157	29,157	.....
36	SPACE SITUATION AWARENESS OPERATIONS	44,809	44,809	.....
37	GLOBAL POSITIONING SYSTEM III—OPERATIONAL CONTROL SEGMENT	481,999	409,399	- 72,600
41	ENTERPRISE GROUND SERVICES	116,791	116,791	.....
41A	NATIONAL SPACE DEFENSE CENTER (NSDC) .....	.....	2,687	+ 2,687
41B	SPACE SUPERIORITY INTELLIGENCE (SSI) .....	.....	16,810	+ 16,810
41C	NCMC—TW/AA SYSTEM .....	.....	6,990	+ 6,990
	TOTAL, OPERATIONAL SYSTEMS DEVELOPMENT	1,100,276	1,047,552	- 52,724
42	SPACE C2	149,742	174,742	+ 25,000
	TOTAL, SOFTWARE AND DIGITAL TECHNOLOGY PILOT PROGRAMS	149,742	174,742	+ 25,000
999	CLASSIFIED PROGRAMS	3,632,866	3,655,866	+ 23,000
	TOTAL, RESEARCH, DEVELOPMENT, TEST & EVALUATION, SPACE FORCE	10,327,595	10,434,327	+ 106,732

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
1	Space Technology	130,874	187,874	+ 57,000
	Program increase: Advanced space power systems .....	.....	.....	+ 7,000
	Program increase: Digital engineering for future space operations .....	.....	.....	+ 5,000

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
	Program increase: Laser communications			+ 12,000
	Program increase: Lithium sulfur battery development ...			+ 5,000
	Program increase: Small satellite mission control facility			+ 6,000
	Program increase: Ultra-lightweight space solar arrays for emerging LEO satellites			+ 15,000
	Program increase: Operational cryogenic upper stage augmentation kit			+ 7,000
2	NAVSTAR Global Positioning System (User Equipment) (SPACE)	390,704	380,704	- 10,000
	Improving funds management: Prior year carryover—Maritime/ground card integration			- 10,000
6	Space Systems Prototype Transitions (SSPT)	142,808	151,595	+ 8,787
	Transfer from RDTE,AF line 74, Space Systems Prototype Transitions (SSPT)			+ 8,787
11	Space Rapid Capabilities Office	103,518	108,518	+ 5,000
	Program increase: University Affiliated Research Center for space technology and capability integration			+ 5,000
11A	Space Security and Defense Programs (SSDP)		56,311	+ 56,311
	Transfer from RDTE,AF line 77, Space Security and Defense Program			+ 56,311
11B	Advanced Spacecraft and Technology		87,768	+ 87,768
	Transfer from RDTE,AF line 19, Advanced Spacecraft Technology			+ 57,268
	Program increase: Ground-based interferometry			+ 6,500
	Program increase: Modular satellite power systems			+ 4,000
	Program increase: Upper stage engine technology			+ 20,000
11C	Maui Space Surveillance Systems (MSSS)		12,090	+ 12,090
	Transfer from RDTE,AF line 20, Maui Space Surveillance System (MSSS)			+ 12,090
12	GPS III Follow-On (GPS III-F)	263,496	285,496	+ 22,000
	Improving funds management: Prior year carryover			- 8,000
	Program increase: Navigation Technology Satellite-3 (NTS-3) Payload and Launch			+ 30,000
13	Space Situation Awareness Operations (GBOSS)	41,897	31,897	- 10,000
	Restoring acquisition accountability: Contract award delay			- 10,000
14	Counterspace Systems	54,689	57,189	+ 2,500
	Program increase: Bounty Hunter expansion			+ 2,500
17	Advanced EHF MILSATCOM (SPACE)	138,257	85,045	- 53,212
	Transfer to RDTE,SF line 17A: Fighting SATCOM			- 43,212
	Improving funds management: Prior year carryover			- 10,000
17A	Commercial SATCOM		43,212	+ 43,212
	Transfer from RDTE, SF line 17: Fighting SATCOM			+ 43,212
20	National Security Space Launch Program (SPACE)—EMD	560,978	450,978	- 110,000
	Improving funds management: LSA award adjustment			- 200,000
	Program increase: Next-generation rocket engine testing			+ 15,000
	Program increase: Upper stage resiliency enhancements			+ 75,000
26	Global Sensor Integrated on Network (GSIN)	3,708	5,597	+ 1,889
	Transfer from RDTE,AF line 301, GSIN			+ 1,889
27	Family of Advanced BLoS Terminals (FAB-T)	247,229	234,729	- 12,500
	Improving funds management: Prior year carryover			- 12,500
31	Space Innovation, Integration and Rapid Technology Development	44,746	38,746	- 6,000
	Improving funds management: Prior year carryover			- 6,000
32	Spacelift Range System (SPACE)	11,020	21,020	+ 10,000
	Program increase: Space launch range services and capabilities			+ 10,000
37	Global Positioning System III—Operational Control Segment ...	481,999	409,399	- 72,600
	Maintain program affordability: OCX Block 3F early to need			- 72,600
41A	National Space Defense Center (NSDC)		2,687	+ 2,687
	Transfer from RDTE,AF line 316, NSDC			+ 2,687
41B	Space Superiority Intelligence (SSI)		16,810	+ 16,810
	Transfer from RDTE,AF line 314, SSI			+ 16,810
41C	NCMC—TW/AA System		6,990	+ 6,990

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
42	Transfer from RDTE,AF line 318, TW/AA			+ 6,990
	Space C2	149,742	174,742	+ 25,000
	Program increase: Commercial space situational awareness ...			+ 25,000
	Classified Programs	3,632,866	3,655,866	+ 23,000
	Classified adjustment			+ 23,000

Evolved Strategic Satellite Communications.—The Committee is concerned about the decision of the Space Force to modify the acquisition strategy for the Evolved Strategic Satellite Communications [ESS] program and remove \$265,000,000 from the budget over the Future Years Defense Program for higher Department priorities. ESS will provide worldwide Department of Defense strategic, secure jam-resistant, and survivable communications with improved resilience and cybersecurity features. This system must be available for transition from the Advanced Extremely High Frequency program in the next decade. While the Space Force has moved its projected need date to 2032, the Committee is concerned that the ESS system may be needed sooner due to optimistic functional availability estimates and an earlier need for resiliency enhancement. Therefore, the Committee directs the Secretary of the Air Force to provide to the congressional defense committees within 120 days of enactment of this act, an assessment of the potential for a strategic communications gap beginning in 2030. The assessment shall include a detailed explanation of the ESS acquisition plan, functional availability analysis, consideration of the potential strategic communication needs of other programs such as Next Generation Overhead Persistent Infrared, new ESS program cost estimates, and if necessary, gap mitigation strategies.

RESEARCH, DEVELOPMENT, TEST AND EVALUATION, DEFENSE-WIDE

Appropriations, 2020	\$25,938,027,000
Budget estimate, 2021	24,280,891,000
Committee recommendation	25,122,150,000

The Committee recommends an appropriation of \$25,122,150,000. This is \$841,259,000 above the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

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

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
	RESEARCH, DEVELOPMENT, TEST & EVALUATION, DEFENSE-WIDE			
	BASIC RESEARCH			
1	DTRA UNIVERSITY STRATEGIC PARTNERSHIP BASIC RESEARCH	14,617	14,617	.....
2	DEFENSE RESEARCH SCIENCES	479,958	459,958	- 20,000
3	BASIC RESEARCH INITIATIVES	35,565	47,565	+ 12,000
4	BASIC OPERATIONAL MEDICAL RESEARCH SCIENCE	53,730	53,730	.....
5	NATIONAL DEFENSE EDUCATION PROGRAM	100,241	100,241	.....

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
6	HISTORICALLY BLACK COLLEGES & UNIV (HBCU)	30,975	50,975	+ 20,000
7	CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM	45,300	45,300	.....
	TOTAL, BASIC RESEARCH	760,386	772,386	+ 12,000
	APPLIED RESEARCH			
8	JOINT MUNITIONS TECHNOLOGY	19,409	19,409	.....
9	BIOMEDICAL TECHNOLOGY	107,568	107,568	.....
11	DEFENSE TECHNOLOGY INNOVATION	35,000	35,000	.....
12	LINCOLN LABORATORY RESEARCH PROGRAM	41,080	41,080	.....
13	APPLIED RESEARCH FOR ADVANCEMENT S&T PRIORITIES	60,722	53,400	- 7,322
14	INFORMATION AND COMMUNICATIONS TECHNOLOGY	435,920	420,920	- 15,000
15	BIOLOGICAL WARFARE DEFENSE	26,950	26,950	.....
16	CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM	201,807	201,807	.....
17	CYBER SECURITY RESEARCH	15,255	15,255	.....
18	TACTICAL TECHNOLOGY	233,271	233,271	.....
19	MATERIALS AND BIOLOGICAL TECHNOLOGY	250,107	250,107	.....
20	ELECTRONICS TECHNOLOGY	322,693	322,693	.....
21	WEAPONS OF MASS DESTRUCTION DEFEAT TECHNOLOGIES ..	174,571	174,571	.....
22	SOFTWARE ENGINEERING INSTITUTE	9,573	9,573	.....
23	SPECIAL OPERATIONS TECHNOLOGY DEVELOPMENT	42,464	49,464	+ 7,000
	TOTAL, APPLIED RESEARCH	1,976,390	1,961,068	- 15,322
	ADVANCED TECHNOLOGY DEVELOPMENT			
24	JOINT MUNITIONS ADVANCED TECH INSENSITIVE MUNITIONS AD	22,920	22,920	.....
25	SO/LIC ADVANCED DEVELOPMENT	4,914	4,914	.....
26	COMBATING TERRORISM TECHNOLOGY SUPPORT	51,089	53,089	+ 2,000
27	FOREIGN COMPARATIVE TESTING	25,183	25,183	.....
29	COUNTERPROLIFERATION INITIATIVES—PROLIF PREV & DEFEAT	366,659	336,659	- 30,000
30	ADVANCED CONCEPTS AND PERFORMANCE ASSESSMENT	14,910	44,410	+ 29,500
32	ADVANCED RESEARCH	18,687	18,687	.....
33	JOINT DOD—DOE MUNITIONS TECHNOLOGY DEVELOPMENT	18,873	18,873	.....
34	ADVANCED AEROSPACE SYSTEMS	230,978	230,978	.....
35	SPACE PROGRAMS AND TECHNOLOGY	158,439	158,439	.....
36	ANALYTIC ASSESSMENTS	23,775	19,775	- 4,000
37	ADVANCED INNOVATIVE ANALYSIS AND CONCEPTS	36,524	28,524	- 8,000
38	ADVANCED INNOVATIVE ANALYSIS AND CONCEPTS—MHA	14,703	14,703	.....
39	COMMON KILL VEHICLE TECHNOLOGY	11,058	11,058	.....
40	DEFENSE MODERNIZATION AND PROTOTYPING	133,375	167,775	+ 34,400
42	DEFENSE INNOVATION UNIT	26,141	35,641	+ 9,500
43	TECHNOLOGY INNOVATION	27,709	27,709	.....
44	CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM—ADVANCED DEV	188,001	188,001	.....
45	RETRACT LARCH	130,283	130,283	.....
46	JOINT ELECTRONIC ADVANCED TECHNOLOGY	15,164	15,164	.....
47	JOINT CAPABILITY TECHNOLOGY DEMONSTRATIONS	85,452	71,452	- 14,000
48	NETWORKED COMMUNICATIONS CAPABILITIES	5,882	5,882	.....
49	DEFENSE—WIDE MANUFACTURING SCIENCE AND TECHNOLOGY PROG	93,817	122,817	+ 29,000
50	MANUFACTURING TECHNOLOGY PROGRAM	40,025	51,025	+ 11,000
52	GENERIC LOGISTICS R&D TECHNOLOGY DEMONSTRATIONS ...	10,235	10,235	.....
53	STRATEGIC ENVIRONMENTAL RESEARCH PROGRAM	53,862	50,462	- 3,400
54	MICROELECTRONIC TECHNOLOGY DEVELOPMENT AND SUPPORT	124,049	136,049	+ 12,000
55	JOINT WARFIGHTING PROGRAM	3,871	3,871	.....
56	ADVANCED ELECTRONICS TECHNOLOGIES	95,864	80,864	- 15,000
57	COMMAND, CONTROL AND COMMUNICATIONS SYSTEMS	221,724	221,724	.....
58	NETWORK—CENTRIC WARFARE TECHNOLOGY	661,158	636,158	- 25,000
59	SENSOR TECHNOLOGY	200,220	200,220	.....
60	DISTRIBUTED LEARNING ADVANCED TECHNOLOGY DEVELOPMENT	6,765	6,765	.....
61	SOFTWARE ENGINEERING INSTITUTE	12,598	12,598	.....

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
64	HIGH ENERGY LASER ADVANCED TECHNOLOGY PROGRAM	105,410	91,410	- 14,000
65	TEST & EVALUATION SCIENCE & TECHNOLOGY	187,065	178,565	- 8,500
67	OPERATIONAL ENERGY CAPABILITY IMPROVEMENT .....	.....	6,000	+ 6,000
70	SPECIAL OPERATIONS ADVANCED TECHNOLOGY DEVELOPMENT	89,072	93,458	+ 4,386
71	SPACE SCIENCE AND TECHNOLOGY RESEARCH AND DEVELOPMENT	72,422	72,422	.....
	TOTAL, ADVANCED TECHNOLOGY DEVELOPMENT	3,588,876	3,604,762	+ 15,886
	DEMONSTRATION & VALIDATION			
72	NUCLEAR AND CONVENTIONAL PHYSICAL SECURITY EQUIPMENT	32,636	32,636	.....
73	WALKOFF	106,529	106,529	.....
75	ENVIRONMENTAL SECURITY TECHNICAL CERTIFICATION PROGRAM	61,345	57,345	- 4,000
76	BALLISTIC MISSILE DEFENSE TERMINAL DEFENSE SEGMENT	412,627	310,127	- 102,500
77	BALLISTIC MISSILE DEFENSE MIDCOURSE DEFENSE SEGMENT	1,004,305	1,234,305	+ 230,000
78	CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM	76,167	76,167	.....
79	BALLISTIC MISSILE DEFENSE SENSORS	281,957	265,803	- 16,154
80	BALLISTIC MISSILE DEFENSE ENABLING PROGRAMS	599,380	612,380	+ 13,000
81	SPECIAL PROGRAMS—MDA	420,216	380,216	- 40,000
82	AEGIS BMD	814,936	881,266	+ 66,330
83	BALLISTIC MISSILE DEFENSE COMMAND AND CONTROL, BATTLE MANAGEMENT	593,353	637,191	+ 43,838
84	BALLISTIC MISSILE DEFENSE JOINT WARFIGHTER SUPPORT ..	49,560	49,560	.....
85	BALLISTIC MISSILE DEFENSE INTERGRATION AND OPERATIONS CENTER (MDIOC)	55,356	55,356	.....
86	REGARDING TRENCH	11,863	11,863	.....
87	SEA BASED X-BAND RADAR [SBX]	118,318	118,318	.....
88	ISRAELI COOPERATIVE PROGRAMS	300,000	300,000	.....
89	BALLISTIC MISSILE DEFENSE TEST	378,302	363,302	- 15,000
90	BALLISTIC MISSILE DEFENSE TARGETS	536,133	536,133	.....
92	COALITION WARFARE	10,129	10,129	.....
93	NEXT GENERATION INFORMATION COMMUNICATIONS TECHNOLOGY (5G)	449,000	449,000	.....
94	DEPARTMENT OF DEFENSE CORROSION PROGRAM	3,325	3,325	.....
95	TECHNOLOGY MATURATION INITIATIVES	67,389	67,389	.....
98	HYPERSONIC DEFENSE	206,832	272,632	+ 65,800
99	ADVANCED INNOVATIVE TECHNOLOGIES	730,508	800,508	+ 70,000
100	TRUSTED AND ASSURED MICROELECTRONICS	489,076	489,076	.....
101	RAPID PROTOTYPING PROGRAM	102,023	82,023	- 20,000
102	DEFENSE INNOVATION UNIT (DIU) PROTOTYPING	13,255	13,255	.....
103	DOD UNMANNED AIRCRAFT SYSTEM (UAS) COMMON DEVELOPMENT	2,787	7,087	+ 4,300
105	HOMELAND DEFENSE RADAR—HAWAII .....	.....	65,000	+ 65,000
107	WARGAMING AND SUPPORT FOR STRATEGIC ANALYSIS (SSA)	3,469	3,469	.....
109	JOINT C5 CAPABILITY DEVELOPMENT, INTEGRATION AND INTEROPERABILITY	19,190	19,190	.....
110	LONG RANGE DISCRIMINATION RADAR	137,256	137,256	.....
111	IMPROVED HOMELAND DEFENSE INTERCEPTORS	664,138	864,138	+ 200,000
112	BMD TERMINAL DEFENSE SEGMENT TEST	7,768	1,000	- 6,768
113	AEGIS BMD TEST	170,880	71,498	- 99,382
114	BALLISTIC MISSILE DEFENSE SENSOR TEST	76,456	64,245	- 12,211
115	LAND-BASED SM-3 [LBSM3]	56,628	56,628	.....
116	BALLISTIC MISSILE DEFENSE MIDCOURSE DEFENSE SEGMENT TEST	67,071	67,071	.....
118	ENTERPRISE INFORMATION TECHNOLOGY SYSTEMS	2,198	2,198	.....
119	JOINT ELECTROMAGNETIC TECHNOLOGY [JET] PROGRAM	997	997	.....
120	CYBER SECURITY INITIATIVE	1,148	1,148	.....
121	SPACE TECHNOLOGY DEVELOPMENT AND PROTOTYPING	215,994	184,694	- 31,300
122	SPACE TRACKING AND SURVEILLANCE SYSTEM	34,144	34,144	.....
123	BALLISTIC MISSILE DEFENSE SYSEM SPACE PROGRAMS	32,068	172,068	+ 140,000

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
	TOTAL, DEMONSTRATION & VALIDATION	9,416,712	9,967,665	+ 550,953
	ENGINEERING & MANUFACTURING DEVELOPMENT			
124	NUCLEAR AND CONVENTIONAL PHYSICAL SECURITY EQUIPMENT	7,173	7,173	.....
126	CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM	319,976	319,976	.....
127	JOINT TACTICAL INFORMATION DISTRIBUTION SYSTEM [JTIDS]	54,985	61,985	+ 7,000
128	WEAPONS OF MASS DESTRUCTION DEFEAT CAPABILITIES	15,650	15,650	.....
129	INFORMATION TECHNOLOGY DEVELOPMENT	1,441	1,441	.....
130	HOMELAND PERSONNEL SECURITY INITIATIVE	7,287	7,287	.....
131	DEFENSE EXPORTABILITY PROGRAM	12,928	12,928	.....
132	OUS(D) IT DEVELOPMENT INITIATIVES	10,259	10,259	.....
133	DOD ENTERPRISE SYSTEMS DEVELOPMENT AND DEMONSTRATION	1,377	1,377	.....
134	DCMO POLICY AND INTEGRATION	1,648	1,648	.....
135	DEFENSE AGENCY INITIATIVES FINANCIAL SYSTEM	20,537	20,537	.....
136	DEFENSE RETIRED AND ANNUITANT PAY SYSTEM (DRAS)	1,638	1,638	.....
137	MISSION ASSURANCE RISK MANAGEMENT SYSTEM (MARMS)	5,500	5,500	.....
138	DEFENSE-WIDE ELECTRONIC PROCUREMENT CAPABILITIES	8,279	8,279	.....
139	TRUSTED & ASSURED MICROELECTRONICS	107,585	107,585	.....
140	NUCLEAR COMMAND, CONTROL, & COMMUNICATIONS	3,685	3,685	.....
143	DOD ENTERPRISE ENERGY INFORMATION MANAGEMENT (EEIM)	3,275	3,275	.....
144	CWMD SYSTEMS: SYSTEM DEVELOPMENT AND DEMONSTRATION	20,585	20,585	.....
	TOTAL, ENGINEERING & MANUFACTURING DEVELOPMENT	603,808	610,808	+ 7,000
	RDT&E MANAGEMENT SUPPORT			
145	JOINT CAPABILITY EXPERIMENTATION	11,239	11,239	.....
146	DEFENSE READINESS REPORTING SYSTEM [DRRS]	9,793	9,793	.....
147	JOINT SYSTEMS ARCHITECTURE DEVELOPMENT	8,497	8,497	.....
148	CENTRAL TEST AND EVALUATION INVESTMENT DEVELOPMENT	422,451	392,451	- 30,000
149	ASSESSMENTS AND EVALUATIONS	18,379	18,379	.....
150	MISSION SUPPORT	74,334	74,334	.....
151	JOINT MISSION ENVIRONMENT TEST CAPABILITY [JMETC]	79,046	79,046	.....
153	JOINT INTEGRATED AIR AND MISSILE DEFENSE ORGANIZATION	50,255	50,255	.....
154	USD (P) PROGRAMS .....	.....	110,000	+ 110,000
155	SYSTEMS ENGINEERING	49,376	41,876	- 7,500
156	STUDIES AND ANALYSIS SUPPORT	5,777	5,777	.....
157	NUCLEAR MATTERS—PHYSICAL SECURITY	16,552	13,552	- 3,000
158	SUPPORT TO NETWORKS AND INFORMATION INTEGRATION	9,582	9,582	.....
159	GENERAL SUPPORT TO USD (INTELLIGENCE)	1,940	1,940	.....
160	CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM	122,951	122,951	.....
167	SMALL BUSINESS INNOVATION RESEARCH/TECHNOLOGY TRANSFER	3,582	3,582	.....
168	MAINTAINING TECHNOLOGY ADVANTAGE	29,566	25,566	- 4,000
169	DEFENSE TECHNOLOGY ANALYSIS	29,059	27,059	- 2,000
170	DEFENSE TECHNICAL INFORMATION CENTER [DTIC]	59,369	59,369	.....
171	R&D IN SUPPORT OF DOD ENLISTMENT, TESTING & EVALUATION	29,420	29,420	.....
172	DEVELOPMENT TEST AND EVALUATION	27,198	27,198	.....
173	MANAGEMENT HEADQUARTERS (RESEARCH & DEVELOPMENT)	13,434	13,434	.....
174	MANAGEMENT HEADQUARTERS DEFENSE TECHNICAL INFORMATION CENTER [DTIC]	2,837	2,837	.....
175	BUDGET AND PROGRAM ASSESSMENTS	13,173	13,173	.....
176	ODNA TECHNOLOGY AND RESOURCE ANALYSIS	3,200	3,200	.....
177	DEFENSE DIGITAL SERVICE (DDS) DEVELOPMENT SUPPORT	999	999	.....
180	DEFENSE OPERATIONS SECURITY [OPSEC]	3,099	23,099	+ 20,000
181	JOINT STAFF ANALYTICAL SUPPORT	3,058	3,058	.....
182	C4I INTEROPERABILITY	59,813	59,813	.....
185	INFORMATION SYSTEMS SECURITY PROGRAM	1,112	1,112	.....

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
186	SUPPORT TO INFORMATION OPERATIONS (IO) CAPABILITIES ..	545	545	.....
187	DEFENSE MILITARY DECEPTION PROGRAM OFFICE	1,036	1,036	.....
188	COMBINED ADVANCED APPLICATIONS	30,824	30,824	.....
190	DISTRIBUTED COMMON GROUND/SURFACE SYSTEMS	3,048	3,048	.....
194	COCOM EXERCISE ENGAGEMENT AND TRAINING TRANS- FORMATION	31,125	27,125	- 4,000
195	DEFENSE EQUAL OPPORTUNITY MANAGEMENT INSTITUTE (DEOMI)	100	100	.....
196	MANAGEMENT HEADQUARTERS—MDA	26,902	26,902	.....
197	JOINT SERVICE PROVIDER (JSP)	3,138	3,138	.....
999	CLASSIFIED PROGRAMS	41,583	41,583	.....
	TOTAL, RDT&E MANAGEMENT SUPPORT	1,297,392	1,376,892	+ 79,500
	OPERATIONAL SYSTEMS DEVELOPMENT			
199	ENTERPRISE SECURITY SYSTEM (ESS)	14,378	14,378	.....
200	JOINT ARTIFICIAL INTELLIGENCE	132,058	132,058	.....
201	REGIONAL INTERNATIONAL OUTREACH & PARTNERSHIP FOR PEACE	1,986	1,986	.....
202	OVERSEAS HUMANITARIAN ASSISTANCE SHARED INFORMA- TION SYSTEM (OHAIS)	316	316	.....
203	INDUSTRIAL BASE ANALYSIS AND SUSTAINMENT SUPPORT ...	9,151	82,651	+ 73,500
204	OPERATIONAL SYSTEMS DEVELOPMENT	19,082	19,082	.....
205	GLOBAL THEATER SECURITY COOPERATION MANAGEMENT ...	3,992	3,992	.....
206	CHEMICAL AND BIOLOGICAL DEFENSE (OPERATIONAL SYS- TEMS DEVELOPMENT)	39,530	39,530	.....
207	PLANNING AND DECISION AID SYSTEM	3,039	3,039	.....
212	DEFENSE INFO INFRASTRUCTURE ENGINEERING & INTEGRA- TION	16,324	16,324	.....
213	LONG HAUL COMMUNICATIONS (DCS)	11,884	11,884	.....
214	MINIMUM ESSENTIAL EMERGENCY COMMUNICATIONS NET- WORK	5,560	5,560	.....
215	KEY MANAGEMENT INFRASTRUCTURE (KMI)	73,356	73,356	.....
216	INFORMATION SYSTEMS SECURITY PROGRAM	46,577	46,577	.....
217	INFORMATION SYSTEMS SECURITY PROGRAM	356,713	386,713	+ 30,000
218	INFORMATION SYSTEMS SECURITY PROGRAM	8,922	8,922	.....
219	GLOBAL COMMAND AND CONTROL SYSTEM	3,695	3,695	.....
220	JOINT SPECTRUM CENTER (DEFENSE SPECTRUM ORGANIZA- TION)	20,113	20,113	.....
223	JOINT REGIONAL SECURITY STACKS (JRSS)	9,728	9,728	.....
231	SECURITY AND INVESTIGATIVE ACTIVITIES	5,700	5,700	.....
235	POLICY R&D PROGRAMS	7,144	6,301	- 843
236	NET CENTRICITY	21,793	21,793	.....
238	DISTRIBUTED COMMON GROUND/SURFACE SYSTEMS	6,066	6,066	.....
245	HOMELAND DEFENSE TECHNOLOGY TRANSFER PROGRAM	2,190	2,190	.....
252	LOGISTICS SUPPORT ACTIVITIES	1,654	1,654	.....
253	PACIFIC DISASTER CENTERS	1,785	1,785	.....
254	DEFENSE PROPERTY ACCOUNTABILITY SYSTEM	7,301	7,301	.....
256	MQ-9 UAV	21,265	21,265	.....
258	AVIATION SYSTEMS	230,812	245,812	+ 15,000
259	SPECIAL OPERATIONS INTELLIGENCE SYSTEMS DEVELOP- MENT	19,558	19,558	.....
260	SOF OPERATIONAL ENHANCEMENTS	136,041	136,041	.....
261	WARRIOR SYSTEMS	59,511	59,511	.....
262	SPECIAL PROGRAMS	10,500	5,500	- 5,000
263	UNMANNED ISR	19,154	14,154	- 5,000
264	SOF TACTICAL VEHICLES	9,263	9,263	.....
265	SOF MARITIME SYSTEMS	59,882	58,882	- 1,000
266	SOF GLOBAL VIDEO SURVEILLANCE ACTIVITIES	4,606	4,606	.....
267	SOF OPERATIONAL ENHANCEMENTS INTELLIGENCE	11,612	11,612	.....
268	SOF TELEPORT PROGRAM	3,239	3,239	.....
	TOTAL, OPERATIONAL SYSTEMS DEVELOPMENT	1,415,480	1,522,137	+ 106,657

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
269	NATIONAL BACKGROUND INVESTIGATION SERVICES—SOFTWARE PILOT PROGRAM	121,676	97,676	- 24,000
270	ACQUISITION VISIBILITY—SOFTWARE PILOT PROGRAM	16,848	16,848	.....
271	GLOBAL COMMAND AND CONTROL SYSTEM	86,750	75,750	- 11,000
272	ALGORITHMIC WARFARE CROSS FUNCTIONAL TEAMS—SOFTWARE PILOT PROGRAM	250,107	250,107	.....
	TOTAL, SOFTWARE AND DIGITAL TECHNOLOGY PILOT PROGRAMS	475,381	440,381	- 35,000
999	CLASSIFIED PROGRAMS	4,746,466	4,841,051	+ 94,585
XXX	UNDIST .....	.....	15,000	+ 15,000
XXX	UNDIST .....	.....	10,000	+ 10,000
	TOTAL, RESEARCH, DEVELOPMENT, TEST & EVALUATION, DEFENSE-WIDE	24,280,891	25,122,150	+ 841,259

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
2	Defense Research Sciences	479,958	459,958	- 20,000
	Maintain program affordability: Excess program growth .....	.....	.....	- 20,000
3	Basic Research Initiatives	35,565	47,565	+ 12,000
	Program increase: DEPCOR .....	.....	.....	+ 12,000
6	Historically Black Colleges and Universities/Minority Institutions	30,975	50,975	+ 20,000
	Program increase .....	.....	.....	+ 20,000
13	Applied Research for the Advancement of S&T Priorities	60,722	53,400	- 7,322
	Maintain program affordability: Unjustified increase—Applied Research project .....	.....	.....	- 7,322
14	Information & Communications Technology	435,920	420,920	- 15,000
	Maintain program affordability: Excess program growth .....	.....	.....	- 15,000
23	SOF Technology Development	42,464	49,464	+ 7,000
	Maintain program affordability: Unjustified growth .....	.....	.....	- 5,000
	Program increase: National consortium for the study of terrorism .....	.....	.....	+ 7,000
	Program increase: Sustained human performance .....	.....	.....	+ 5,000
26	Combating Terrorism Technology Support	51,089	53,089	+ 2,000
	Program increase: EOD Camera-based machine learning .....	.....	.....	+ 2,000
29	Counter Weapons of Mass Destruction Advanced Technology Development	366,659	336,659	- 30,000
	Restoring acquisition accountability: Insufficient budget justification .....	.....	.....	- 30,000
30	Advanced Concepts and Performance Assessment	14,910	44,410	+ 29,500
	Program increase: Cyber operations .....	.....	.....	+ 20,000
	Program increase: Hypersonic kill vehicles .....	.....	.....	+ 9,500
36	Analytic Assessments	23,775	19,775	- 4,000
	Improving funds management: Prior year carryover .....	.....	.....	- 4,000
37	Advanced Innovative Analysis and Concepts	36,524	28,524	- 8,000
	Improving funds management: Prior year carryover .....	.....	.....	- 8,000
40	Defense Modernization and Prototyping	133,375	167,775	+ 34,400
	Program increase: Artificial intelligence enabled sensor networks .....	.....	.....	+ 8,400
	Program increase: Disruptive Air and Missile Defense .....	.....	.....	+ 5,000
	Program increase: Open Source Intelligence .....	.....	.....	+ 3,000
	Program increase: Remote advise and assist .....	.....	.....	+ 8,000
	Program increase: Stratospheric balloon research .....	.....	.....	+ 10,000
42	Defense Innovation Unit (DIU)	26,141	35,641	+ 9,500
	Program increase: Multi-orbit platform .....	.....	.....	+ 4,500

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
	Program increase: Small tactical imagery satellites			+ 5,000
47	Joint Capability Technology Demonstration	85,452	71,452	- 14,000
	Improving funds management: Prior year carryover			- 14,000
49	Defense-Wide Manufacturing Science and Technology Program	93,817	122,817	+ 29,000
	Program increase: Carbon hypersonics materials industrial base			+ 5,000
	Program increase: High performance computing-enabled advanced manufacturing			+ 17,000
	Program increase: P350/manufacturing innovation institutes			+ 5,000
	Program increase: Arsenal supply chain security proof of concept			+ 2,000
50	Manufacturing Technology Program	40,025	51,025	+ 11,000
	Program increase: Rare earth magnets			+ 4,000
	Program increase: Steel performance initiative			+ 7,000
53	Strategic Environmental Research Program	53,862	50,462	- 3,400
	Improving funds management: Prior year carryover			- 6,400
	Program increase: PFAS/PFOA response			+ 3,000
54	Microelectronics Technology Development and Support	124,049	136,049	+ 12,000
	Program increase: GaN-on-Si RF Front-end			+ 5,000
	MGUE—DLA requested transfer from P,DW line 23			+ 7,000
56	Advanced Electronics Technologies	95,864	80,864	- 15,000
	Improving funds management: Prior year carryover			- 15,000
58	Network-Centric Warfare Technology	661,158	636,158	- 25,000
	Improving funds management: Prior year carryover			- 25,000
64	High Energy Laser Advanced Technology Program	105,410	91,410	- 14,000
	Maintain program affordability: Excess growth			- 14,000
65	Test & Evaluation Science & Technology	187,065	178,565	- 8,500
	Improving funds management: Prior year carryover			- 36,000
	Program increase: Academic Hypersonic Research, Test and Evaluation Facilities			+ 6,500
	Program increase: High-enthalpy hypersonic testing facility for Thermal Protection Systems in Reactive Environments			+ 5,000
	Program increase: Hypervelocity ground testing			+ 16,000
67	Operational Energy Capability Improvement		6,000	+ 6,000
	Program increase: Thermal and power technology			+ 6,000
70	SOF Advanced Technology Development	89,072	93,458	+ 4,386
	Insufficient budget justification: Inaccurate transfer			- 2,114
	Improving funds management: Prior year carryover due to NDS strategy alignment			- 3,500
	Program increase: Identity management			+ 10,000
75	Environmental Security Technical Certification Program	61,345	57,345	- 4,000
	Improving funds management: Prior year carryover			- 7,000
	Program increase: Sustainable technology demonstration program			+ 3,000
76	Ballistic Missile Defense Terminal Defense Segment	412,627	310,127	- 102,500
	Restore acquisition accountability: THAAD underlay lack of validated requirement and acquisition strategy—CONOPS development and analysis only			- 102,500
77	Ballistic Missile Defense Midcourse Defense Segment	1,004,305	1,234,305	+ 230,000
	Improving funds management: Future contracts preparation only			- 20,000
	Program increase: Ground-Based Midcourse Defense reliability/SLEP			+ 250,000
79	Ballistic Missile Defense Sensors	281,957	265,803	- 16,154
	Restore acquisition accountability: MD11 modeling and simulation development unjustified growth			- 16,154
80	BMD Enabling Programs	599,380	612,380	+ 13,000
	Program increase: Architecture reactive target simulation development			+ 10,000
	Program increase: Cruise missile defense for homeland—indications and warning			+ 3,000
81	Special Programs—MDA	420,216	380,216	- 40,000

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
	Program adjustment			-40,000
82	AEGIS BMD	814,936	881,266	+66,330
	Restore acquisition accountability: AEGIS underlay lack of validated requirement and acquisition strategy—continued CONOPS development and analysis only			-26,760
	Maintain program affordability: AEGIS 6.x unjustified capability build growth			-12,910
	Program increase: SM-3 Block IIA ECPs			+106,000
83	Ballistic Missile Defense Command and Control, Battle Management and Communication	593,353	637,191	+43,838
	Restoring acquisition accountability: Increment 7 growth without established program baseline			-12,730
	Restoring acquisition accountability: Increment 9 growth without established program baseline			-34,600
	Program increase: Cruise missile defense for homeland—indications and warning			+36,200
	Program increase: Cybersecurity			+4,968
	Program increase: Classified unfunded requirement #1			+50,000
89	Ballistic Missile Defense Test	378,302	363,302	-15,000
	Improving funds management: Prior year test asset carry-over			-15,000
98	Hypersonic Defense	206,832	272,632	+65,800
	Program increase: Hypersonic defense—glide phase weapon system			+10,000
	Program increase: Hypersonic defense—weapon system technology development			+40,800
	Program increase: Hypersonic defense—engineering enablers			+15,000
99	Advanced Innovative Technologies	730,508	800,508	+70,000
	Program increase: Micro nuclear reactors			+70,000
101	Rapid Prototyping Program	102,023	82,023	-20,000
	Improving funds management: Prior year carryover			-20,000
103	Department of Defense (DoD) Unmanned System Common Development	2,787	7,087	+4,300
	Program increase: Unmanned traffic management			+4,300
105	Homeland Defense Radar—Hawaii (HDR-H)		65,000	+65,000
	Program increase: Homeland Defense Radar—Hawaii			+65,000
111	Improved Homeland Defense Interceptors	664,138	864,138	+200,000
	Program increase: GMD risk reduction			+200,000
112	Ballistic Missile Defense Terminal Defense Segment Test	7,768	1,000	-6,768
	Improving funds management: Prior year test asset carry-over			-6,768
113	Aegis BMD Test	170,880	71,498	-99,382
	Restoring acquisition accountability: AEGIS underlay test funding early to need			-96,000
	Improving funds management: Prior year test asset carry-over			-3,382
114	Ballistic Missile Defense Sensor Test	76,456	64,245	-12,211
	Improving funds management: Prior year test asset carry-over			-12,211
121	Space Technology Development and Prototyping	215,994	184,694	-31,300
	Maintain program affordability: Unjustified launch costs			-11,300
	Transfer: Hypersonic and Ballistic Tracking Space Sensor (HBTSS) to Missile Defense Agency, line 123			-20,000
123	Ballistic Missile Defense System Space Programs	32,068	172,068	+140,000
	Transfer: Hypersonic and Ballistic Tracking Space Sensor (HBTSS) from Space Development Agency, line 121			+20,000
	Program increase: Hypersonic and Ballistic Tracking Space Sensor (HBTSS)			+120,000
127	Joint Tactical Information Distribution System [JTIDS]	54,985	61,985	+7,000
	Program increase: Applied Research Laboratory for Remote Sensing Systems (ARL-RSS)			+7,000
148	Central Test and Evaluation Investment Development (CTEIP) ..	422,451	392,451	-30,000
	Maintain program affordability: Unjustified increase			-30,000

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
154	Classified Program USD(P)		110,000	+ 110,000
	Classified adjustment			+ 110,000
155	Systems Engineering	49,376	41,876	- 7,500
	Improving funds management: Prior year carryover			- 7,500
157	Nuclear Matters—Physical Security	16,552	13,552	- 3,000
	Maintain program affordability: Unjustified growth			- 3,000
168	Maintaining Technology Advantage	29,566	25,566	- 4,000
	Maintain program affordability: Unjustified growth			- 4,000
169	Defense Technology Analysis	29,059	27,059	- 2,000
	Restoring acquisition accountability poor justification			- 5,000
	Program increase: Technology transition partnership intermediary			+ 3,000
180	Defense Operations Security Initiative (DOSI)	3,099	23,099	+ 20,000
	Program increase: Cyber kinetic combat environment			+ 20,000
194	COCOM Exercise Engagement and Training Transformation (CE2T2)—non-MHA	31,125	27,125	- 4,000
	Improving funds management: Prior year carryover			- 4,000
203	Industrial Base Analysis and Sustainment Support	9,151	82,651	+ 73,500
	Program increase: Advanced manufacturing workforce development			+ 6,000
	Program increase: Advanced nanomaterials manufacturing			+ 10,000
	Program increase: Automated textile manufacturing			+ 10,000
	Program increase: Interdisciplinary center for advanced manufacturing system			+ 7,500
	Program increase: Machine and advanced manufacturing			+ 20,000
	Program increase: Submarine workforce development			+ 20,000
217	Information Systems Security Program	356,713	386,713	+ 30,000
	Program increase: Senior military college cyber education			+ 10,000
	Program increase: Workforce Transformation Cyber Initiative Pilot Program			+ 20,000
235	Policy R&D Programs	7,144	6,301	- 843
	Maintain program affordability: Unjustified growth			- 843
258	Aviation Systems	230,812	245,812	+ 15,000
	Maintain program affordability: RFCM follow on contract unjustified growth			- 5,000
	Transfer from PDW—Armed Overwatch			+ 20,000
262	Special Programs	10,500	5,500	- 5,000
	Improving funds management: Prior year carryover			- 5,000
263	Unmanned ISR	19,154	14,154	- 5,000
	Improving funds management: Prior year carryover			- 5,000
265	Maritime Systems	59,882	58,882	- 1,000
	Maintain program affordability: DCS Block II studies unjustified growth			- 3,000
	Program increase: Diver propulsion device			+ 2,000
269	National Background Investigation Services—Software Pilot Program	121,676	97,676	- 24,000
	Maintain program affordability: Unjustified increase			- 24,000
271	Global Command and Control System	86,750	75,750	- 11,000
	Insufficient budget justification: Inaccurate transfer			- 6,000
	Improving funds management: Prior year carryover			- 5,000
	Classified Programs	4,746,466	4,841,051	+ 94,585
	Classified adjustment			+ 94,585
	Undistributed		15,000	+ 15,000
	Program increase: Restore DWR Missile Defense Agency manpower reduction			+ 15,000
	Undistributed		10,000	+ 10,000
	Program increase: 5G spectrum reallocation mitigation			+ 10,000

Strategic Capabilities Office.—Since its inception, the Committee has been supportive of the Strategic Capabilities Office [SCO], which uses existing weapons systems in new ways to counter near peer adversaries. The Committee believes that such focus on near

term solutions to counter threats and responsiveness to the needs of the Combatant Commands is vital, however, the Committee shares concerns from within the Department of Defense that SCO's ability to successfully transition programs to service partners and ensure that programs meet requirements needs improvement. The Committee supports the Department's review of SCO's prior year budgets and the fiscal year 2021 budget submission, but as noted last year, revisiting program decisions a month prior to the start of the fiscal year hampered congressional budget oversight of fiscal year 2020 programs and limited a full understanding of fiscal year 2020 program needs. Therefore, the Committee recommends a rescission of \$150,000,000 from fiscal year 2020 to level the year-over-year budget profile. The Committee continues direction that the Secretary of Defense shall provide to the congressional defense committees quarterly obligation and expenditure reports for SCO by project.

Historically Black Colleges and Universities and Minority Institutions Program.—The Committee is aware of the competitive grants awarded by the Office of the Secretary of Defense to Historically Black Colleges and Universities [HBCUs] and Minority Institutions for research, education assistance, instrumentation purchases, and technical assistance. While the Committee believes that this program has provided needed assistance to these institutions, it is also aware of the historically inadequate funding provided to HBCUs for science, technology, engineering, and mathematics research and other activities. As such, the Committee encourages the Secretary of Defense to make greater efforts to develop partnerships with HBCUs with a specific focus on national security problems such as cybersecurity and terrorism.

Arsenal Supply Chain Security Proof of Concept.—The Committee recognizes the importance of modernizing and enhancing cybersecurity efforts in manufacturing at arsenals across the Army Organic Industrial Base and within related defense supply chains. The Committee's recommendation includes \$3,500,000 to expand an existing pilot program in partnership with digital manufacturing institute efforts to include a cybersecurity assessment and roadmap that can be scaled across the Army to protect manufacturing facilities, equipment, materiel, and information systems. The Committee directs the Secretary of Army to utilize these funds to provide cybersecurity resources and address cybersecurity challenges and digital modernization efforts at arsenals through partnership with digital manufacturing institute efforts.

Steel Performance Initiative.—The Committee understands that steel is a critical and enabling material for the performance of defense equipment. Investment is needed in steel alloy development and manufacturing technology to maintain warfighter preparedness and a strong industrial base. Therefore, the Committee recommends an additional \$7,000,000 above the request to support the steel performance initiative.

Synthetic Sources of Graphite.—The Committee is concerned about the security of the synthetic graphite supply, given that the current supply of synthetic graphite for the Department of Defense predominantly comes from foreign nations and entities. The Committee urges the Department to source synthetic graphite domesti-

cally, when possible, for isomolded components, ablative plates, solid rocket motor nozzles, and other defense platforms and uses.

Academic Hypersonic Research, Test and Evaluation Facilities.—The Committee recognizes the importance of higher-education institutions in establishing high-quality test facilities and training the future workforce for the development and evaluation of hypersonic weapon platforms. If successful, these weapons present a strategic advantage to be used in our military arsenal. The Committee acknowledges the need to enhance the national wind tunnel facility ecosystem and provides an additional \$6,500,000 for this effort. The Committee encourages the Secretary of Defense to utilize these funds to support the establishment and coordination of the U.S. academic test facility ecosystem needed to support weapon development and fielding.

Cyber Professionals from Minority Communities.—The Committee is aware of the significant need for attracting well qualified individuals with cyber training to aid the nation against adversarial cyber threats. The Committee encourages the Department of Defense and the intelligence community to review opportunities to grow its workforce by focusing future recruitment in underrepresented populations and minority communities and to work with qualified HBCUs to identify and recruit the next generation of cyber professionals.

OPERATIONAL TEST AND EVALUATION, DEFENSE

Appropriations, 2020	\$227,700,000
Budget estimate, 2021	210,090,000
Committee recommendation	257,120,000

The Committee recommends an appropriation of \$257,120,000. This is \$47,030,000 above the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

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

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
	OPERATIONAL TEST AND EVALUATION, DEFENSE			
	RDT&E MANAGEMENT SUPPORT			
1	OPERATIONAL TEST AND EVALUATION	100,021	100,021	.....
2	LIVE FIRE TEST AND EVALUATION	70,933	70,933	.....
3	OPERATIONAL TEST ACTIVITIES AND ANALYSES	39,136	86,166	+ 47,030
	TOTAL, RDT&E MANAGEMENT SUPPORT	210,090	257,120	+ 47,030
	TOTAL, OPERATIONAL TEST AND EVALUATION, DEFENSE	210,090	257,120	+ 47,030

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
1	Operational Test and Evaluation	100,021	100,021	.....
2	Live Fire Test and Evaluation	70,933	70,933	.....
3	Operational Test Activities and Analyses	39,136	86,166	+ 47,030
	Program increase: DWR Joint Test and Evaluation program restoration .....	.....	.....	+ 22,030
	Program increase: Mid-tier acquisitions/rapid prototyping D, OTE oversight .....	.....	.....	+ 25,000
	Total, Operational Test and Evaluation, Defense	210,090	257,120	+ 47,030

Testing for Rapid Prototyping and Rapid Fielding Programs.—In accordance with Senate Report 116–103, the Director, Operational Test and Evaluation [DOT&E], in coordination with the Under Secretary of Defense (Acquisition and Sustainment), and the Under Secretary of Defense (Research and Engineering), and with the cooperation of the respective service test organizations, provided to the congressional defense committees with the fiscal year 2021 President’s budget request an assessment of test strategies for all current and proposed acquisition programs using “section 804” acquisition authorities. The Committee notes that these assessments were limited to those programs under DOT&E oversight, in part due to lack of “visibility into programs”. As stated elsewhere in this explanatory statement under the heading “Mid-Tier Acquisition and Rapid Prototyping Programs”, the Committee continues to believe that the DOT&E should have insight into and oversight of test strategies for programs using section 804 acquisition authorities and/or rapid prototyping authorities. The Committee recommends an additional \$25,000,000 for this purpose in fiscal year 2021. The Committee expects the Department of Defense and the services to appropriately budget for these requirements in future budget submissions as part of programs exercising these acquisition authorities.

TITLE V
 REVOLVING AND MANAGEMENT FUNDS
 DEFENSE WORKING CAPITAL FUNDS

Appropriations, 2020	\$1,564,211,000
Budget estimate, 2021	1,348,910,000
Committee recommendation	2,600,910,000

The Committee recommends an appropriation of \$2,600,910,000. This is \$1,252,000,000 above the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

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

(In thousands of dollars)

Item	2021 budget estimate	Committee recommendation	Change from budget estimate
Industrial Operations	32,551	157,551	+ 125,000
Program increase: Arsenal Initiative			+ 125,000
Supply Management	24,166	24,166	
Undistributed		536,000	+ 536,000
Program increase			+ 536,000
Total, Defense Working Capital Fund, Army	56,717	717,717	+ 661,000
Undistributed		367,000	+ 367,000
Program increase			+ 367,000
Total, Defense Working Capital Fund, Navy		367,000	+ 367,000
Transportation		224,000	+ 224,000
Program increase			+ 224,000
Supplies and Materials	95,712	95,712	
Total, Defense Working Capital Fund, Air Force	95,712	319,712	+ 224,000
Defense Logistics Agency	49,821	49,821	
Total, Defense Working Capital Fund, Defense-wide	49,821	49,821	
Commissary Operations	1,146,660	1,146,660	
Total, Defense Working Capital Fund, Defense-wide, DECA	1,146,660	1,146,660	
Grand Total, Defense Working Capital Funds	1,348,910	2,600,910	+ 1,252,000

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

TITLE VI
OTHER DEPARTMENT OF DEFENSE PROGRAMS
DEFENSE HEALTH PROGRAM

Appropriations, 2020 \$34,074,119,000
 Budget estimate, 2021 32,690,372,000
 Committee recommendation 33,187,053,000

The Committee recommends an appropriation of \$33,187,053,000.
 This is \$496,681,000 above the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

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

(In thousands of dollars)

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
	DEFENSE HEALTH PROGRAM			
	OPERATION AND MAINTENANCE			
10	IN-HOUSE CARE	9,560,564	9,188,664	- 371,900
20	PRIVATE SECTOR CARE	15,841,887	15,736,954	- 104,933
30	CONSOLIDATED HEALTH SUPPORT	1,338,269	1,316,869	- 21,400
40	INFORMATION MANAGEMENT	2,039,910	2,091,108	+ 51,198
50	MANAGEMENT ACTIVITIES	330,627	330,627	.....
60	EDUCATION AND TRAINING	315,691	319,785	+ 4,094
70	BASE OPERATIONS/COMMUNICATIONS	1,922,605	1,922,605	.....
	SUBTOTAL, OPERATION AND MAINTENANCE	31,349,553	30,906,612	- 442,941
	PROCUREMENT			
150	INITIAL OUTFITTING	22,932	22,932	.....
160	REPLACEMENT AND MODERNIZATION	215,618	215,618	.....
170	JOINT OPERATIONAL MEDICINE INFORMATION SYSTEM .....	.....	2,620	+ 2,620
180	MILITARY HEALTH SYSTEM—DESKTOP TO DATACENTER	70,872	70,872	.....
180	DOD HEALTH MANAGEMENT SYSTEM MODERNIZATION	308,504	218,800	- 89,704
	SUBTOTAL, PROCUREMENT	617,926	530,842	- 87,084
	RESEARCH DEVELOPMENT TEST AND EVALUATION			
80	RESEARCH	8,913	8,913	.....
90	EXPLORATORY DEVELOPMENT	73,984	73,984	.....
100	ADVANCED DEVELOPMENT	225,602	225,602	.....
110	DEMONSTRATION/VALIDATION	132,331	132,331	.....
120	ENGINEERING DEVELOPMENT	55,748	96,382	+ 40,634
130	MANAGEMENT AND SUPPORT	48,672	48,672	.....
140	CAPABILITIES ENHANCEMENT	17,215	17,215	.....
150	UNDISTRIBUTED MEDICAL RESEARCH .....	.....	1,146,500	+ 1,146,500
	SUBTOTAL, RESEARCH DEVELOPMENT TEST AND EVALUATION	562,465	1,749,599	+ 1,187,134
190	SOFTWARE & DIGITAL TECHNOLOGY PILOT PROGRAMS	160,428	.....	- 160,428

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
	TOTAL, DEFENSE HEALTH PROGRAM	32,690,372	33,187,053	+ 496,681

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Item	2021 budget estimate	Committee recommendation	Change from budget estimate
Operation and Maintenance	31,349,553	30,906,612	- 442,941
In-House Care	9,560,564	9,188,664	- 371,900
Improving funds management: Excess funding to replace military medical end strength			- 296,000
Improving funds management: Printing and reproduction excess growth			- 6,300
Improving funds management: Medical care contracts excess growth			- 40,100
Improving funds management: Equipment purchases excess growth			- 29,500
Private Sector Care	15,841,887	15,736,954	- 104,933
Improving funds management: Pharmaceutical drugs excess growth			- 32,699
Improving funds management: Excess growth			- 72,234
Consolidated Health Support	1,338,269	1,316,869	- 21,400
Improving funds management: Historical underexecution Program increase: Sexual Trauma Treatment Pilot Program			- 25,400
Information Management/IT	2,039,910	2,091,108	+ 51,198
Restoring acquisition accountability: DHMSM excess growth			- 11,641
Improving funds management: Tri-service IM/IT excess growth			- 45,709
Transfer: Transfer from Software and Digital Technology Pilot Programs for JOMIS			+ 108,548
Management Activities	330,627	330,627	
Education and Training	315,691	319,785	+ 4,094
Improving funds management: Equipment purchases excess growth			- 5,906
Program increase: Uniformed Services University of the Health Sciences			+ 10,000
Base Operations and Communications	1,922,605	1,922,605	
Procurement	617,926	530,842	- 87,084
Restoring acquisition accountability: DHMSM excess growth	308,504	218,800	- 89,704
Transfer: Transfer from Software and Digital Technology Pilot Programs for JOMIS			+ 2,620
Research and Development	722,893	1,749,599	+ 1,026,706
Restoring acquisition accountability: DHMSM excess growth			- 5,580
Transfer: Transfer from Software and Digital Technology Pilot Programs for JOMIS			+ 49,260
Restoring acquisition accountability: JOMIS excess growth			- 3,046
Restore core funding reduction			+ 227,000
Peer-reviewed ALS research			+ 40,000
Peer-reviewed breast cancer research			+ 130,000
Peer-reviewed cancer research			+ 115,000
Peer-reviewed epilepsy research			+ 12,000
Peer-reviewed medical research			+ 370,000
Peer-reviewed melanoma research			+ 30,000
Peer-reviewed ovarian cancer research			+ 10,000
Peer-reviewed prostate cancer research			+ 70,000
Peer-reviewed rare cancers research			+ 17,500

[In thousands of dollars]

Item	2021 budget estimate	Committee recommendation	Change from budget estimate
Peer-reviewed traumatic brain injury and psychological health research			+ 70,000
Joint warfighter medical research			+ 25,000
Chronic pain management			+ 15,000
Orthotics and prosthetics outcomes research			+ 15,000
Software and Digital Technology Pilot Programs	160,428		- 160,428
Transfer: Transfer to Operation and Maintenance, Information Management for JOMIS			- 108,548
Transfer: Transfer to Procurement for JOMIS			- 2,620
Transfer: Transfer to Research and Development for JOMIS			- 49,260
Total	32,690,372	33,187,053	+ 496,681

Defense Health Program Reprogramming Procedures (Including Base and Overseas Contingency Operations Funding).—To limit the amount of transfers between the In-House Care and the Private Sector Care budget sub-activities and to continue to improve oversight within the Defense Health Program operation and maintenance account, the Committee includes a provision which caps the funds available for Private Sector Care under the TRICARE program subject to prior approval reprogramming procedures. The provision and accompanying explanatory statement should not be interpreted by the Department as limiting the amount of funds that may be transferred to the Direct Care System from other budget activities within the Defense Health Program. In addition, funding for the In-House Care and Private Sector Care budget sub-activities are designated as congressional special interest items. Any transfer of funds in excess of \$15,000,000 into or out of these sub-activities requires the Secretary of Defense to follow prior approval reprogramming procedures.

The Committee directs the Secretary of Defense to provide written notification to the congressional defense committees of cumulative transfers in excess of \$10,000,000 out of the Private Sector Care budget sub-activity not later than fifteen days after such a transfer. The Committee further directs the Assistant Secretary of Defense (Health Affairs) to provide quarterly briefings to the congressional defense committees on budget execution data for all of the Defense Health Program budget activities not later than 30 days after the end of each fiscal quarter, and to adequately reflect changes to the budget activities requested by the Services in future budget submissions.

Carryover.—For fiscal year 2021, the Committee recommends 1 percent carryover authority for the operation and maintenance account of the Defense Health Program. The Committee directs the Assistant Secretary of Defense (Health Affairs) to submit a detailed spend plan for any fiscal year 2020 designated carryover funds to the congressional defense committees not less than 30 days prior to executing the carryover funds.

Operation and Maintenance Reductions.—The Committee notes that the budget justification materials for the Defense Health Program do not delineate operation and maintenance funding between the Defense Health Agency, Army, Navy, Air Force, Uniformed

Services University of Health Sciences, and National Capital Region Medical Directorate. Given this lack of granular visibility, the Department is expected to implement operation and maintenance reductions among the various components in accordance with their historical underexecution.

Electronic Health Record.—The Committee remains supportive of the goal of the Departments of Defense and Veterans Affairs to develop and deploy fully interoperable electronic health records that can exchange data in a meaningful way and be used in a dynamic environment to improve patient care and facilitate smoother transitions for servicemembers from military service to veteran status. The Committee was pleased to learn from the January and February 2020 Follow-on Operational Test and Evaluation [FOT&E] report that MHS GENESIS has improved in performance, and 80 percent of the re-tested incident reports have closed since the July 2018 Initial Operational Test and Evaluation [IOT&E]. However, the Committee understands that during FOT&E, users generated 202 new incident reports, and that an additional 46 were identified as high-priority. Furthermore, the Committee is concerned that the FOT&E report concluded that there are shortages in training and operational assistance; a lack of communication with the user base; and software deficiencies for military use in areas such as medical readiness, information exchange, and access to historical medical record data. The Committee expects that many of the incidents found in the 2020 FOT&E, as well as the 118 unresolved incidents identified in the 2018 IOT&E, will be prioritized in a timely manner to ensure a smoother deployment at upcoming sites. The Committee also looks forward to receiving the results of another FOT&E report at the next fielding, as recommended by the Director of Operational Test and Evaluation [DOT&E], in order to review corrective actions and focus on capabilities shown ineffective during the 2020 FOT&E.

The Committee directs the Program Executive Officer, Defense Healthcare Management Systems [PEO DHMS], to continue to provide monthly reports not later than 15 days after the end of each month to the congressional defense committees on the status of all open incident reports, as well as the 46 high priority incident reports, in order for the Committee to better track the progress of the Department in resolving the multitude of issues identified in the continuous deployment of MHS GENESIS.

The PEO DHMS, in conjunction with the Director of the Inter-agency Program Office [IPO] and the Director of the Defense Health Agency, is directed to provide quarterly reports not later than 30 days after the end of each fiscal quarter to the congressional defense committees and the Government Accountability Office on the cost and schedule of the program, to include milestones, knowledge points, and acquisition timelines, as well as quarterly obligation reports. These reports should also include the following: (1) any changes to the deployment timeline, including benchmarks, for full operating capability; (2) any refinements to the cost estimate for full operating capability and the total life cycle cost of the project; and (3) the progress toward developing, implementing, and fielding the interoperable electronic health record throughout the two Departments' medical facilities. The Committee further directs

the PEO DHMS to continue briefing the House and Senate Defense Appropriations Subcommittees on a quarterly basis, coinciding with the report submission.

Additionally, the Committee directs the Comptroller General to continue quarterly performance reviews of the deployment of MHS GENESIS with a focus on whether the program is meeting expected cost, schedule, scope, quality, and risk mitigation expectations. The Committee expects PEO DHMS to facilitate these quarterly performance reviews by providing the Comptroller General with regular and in-depth access to the program.

The Committee directs the IPO to continue to provide quarterly reports to the House and Senate Subcommittees on Appropriations for Defense and Military Construction, Veterans Affairs, and Related Agencies on the progress of interoperability between the two Departments.

Military Treatment Facility Transition.—As of October 1, 2020, 263 of the 723 military treatment facilities [MTFs] have transferred to the Defense Health Agency [DHA], with an updated plan for DHA to assume control of all remaining MTFs not later than September 30, 2021. The Committee understands that the military departments continue to have a significant role in the administration of the MTFs. Specifically, the Committee is concerned about the transition of more than 40 functional capabilities identified in DHA's implementation plan that are wide-ranging, including capabilities like military personnel management, acquisitions, religious support services, clinical operations, and clinical quality. Therefore, the Committee directs the Comptroller General to provide the congressional defense committees a report not later than 90 days after the enactment of this act on the status of the transition of MTFs to the DHA. The report shall include (1) a review of functions at facilities that have already transitioned, including DHA's role or management and the administration support that the Services are providing and a timeline for that support to cease; (2) cost implications of the transition, including the Department's plan for maximizing efficiencies and reducing duplication; (3) the current and planned DHA staffing model; and (4) how the DHA will ensure that the Services' medical requirements are considered and met. The Committee also directs the Department to continue to provide any updates regarding the MTF transition directly to the congressional defense committees in a timely manner in order to facilitate appropriate congressional oversight.

Restructuring Military Treatment Facilities.—In February 2020, the Department of Defense [DOD] issued a report to Congress required by section 703 of the National Defense Authorization Act for Fiscal Year 2017 detailing a plan to restructure 43 military treatment facilities [MTFs] and close five others in order to right-size MTFs to match workload with readiness requirements. The plan would require various healthcare services to be reduced or eliminated, and many non-service beneficiaries would have to find alternative health-care providers within the TRICARE network. The Committee acknowledges the overall goal of DOD to increase focus on active-duty readiness and cost-efficiency, however, it does not support achieving that goal at the expense of the medical benefits provided for 9.6 million active-duty personnel, military retirees,

and their families. In May 2020, the Government Accountability Office [GAO] released its subsequent review of the Department's restructuring plan. The Committee is concerned about methodology gaps found in DOD's assessments which used incomplete and inaccurate information about civilian healthcare quality, access, and cost-effectiveness. Due to these gaps, DOD leaders may not fully understand the risks associated with the restructuring of the MTFs. Therefore, the Committee directs the Assistant Secretary of Defense (Health Affairs), in coordination with the Director of the Defense Health Agency [DHA] and the Service Surgeons General, to submit to the congressional defense committees an implementation plan prior to the obligation of funds in fiscal year 2021 to close or restructure any MTFs. The plan shall include detailed impacts to medical manpower; updated information and analysis on the accessibility and quality of nearby civilian health-care providers; military readiness; cost-effectiveness, including reimbursement rates for TRICARE; and an assessment of GAO's recommendations for future transitions. Moreover, the Committee is aware that many communities near military installations rely disproportionately on the medical care provided by MTFs. The Committee encourages DHA to engage in robust discussions with community leaders and private health-care providers in communities near military facilities during any future transition, modernization, and restructuring of MTFs.

Facilities, Sustainment, Restoration and Modernization.—The Committee is concerned with the findings of a Department of Defense Office of Inspector General's [DOD-IG] July 2020 audit report, which highlighted the backlog in addressing more than \$552,000,000 of unfunded requirements in defense medical facility sustainment, restoration, and modernization [FSRM] as of September 17, 2019. U.S. servicemembers, veterans, and their beneficiaries depend on these military treatment facilities [MTFs] to provide quality healthcare in a safe and reliable environment. According to the report, these delays could worsen the overall condition, readiness, use, functionality, and services provided at MTFs and jeopardize military healthcare. The Committee notes that as a result of the audit report, the Office of the Secretary of Defense committed to utilizing \$107,200,000 of available fiscal year 2019 carryover funding, provided in the operation and maintenance account, to medical FSRM unfunded requirements. However, given the large remaining FSRM shortfall, the Committee directs the Director of the Defense Health Agency, in coordination with the Secretary of Defense (Health Affairs) and the Service Surgeons General, to submit to the congressional defense subcommittees not later than 180 days after the enactment of this act a comprehensive plan to address the unfunded requirements and recommendations detailed in the DOD-IG 2020 audit report.

Congressionally Directed Medical Research Programs.—In 1992, Congress appropriated \$210,000,000 for the Department of Defense to establish the Congressionally Directed Medical Research Programs [CDMRP] and fund a breast cancer research program. These programs were led by the U.S. Army Medical Research and Materiel Command (now the U.S. Army Medical and Development Command) with the mission to create, develop, deliver, and sustain

medical capabilities for the warfighter, their beneficiaries, and veterans. Since 1992, CDMRP has increased by 33 programs and overall CDMRP funding has grown by approximately \$1,000,000,000. In 2020, the CDMRP received congressional appropriations of over \$1,200,000,000 to support 34 individual research programs ranging from breast cancer to spinal cord injuries. The Committee notes that, in addition to recommendations for improvement, the 2016 report conducted by the National Academies of Sciences, Engineering, and Medicine concluded that the CDMRP is a “well-established medical research funding organization” and is “effective in dispensing research funding across its programs.” Due to the sustained growth in the number of programs and annual funding for the CDMRP, the Committee wants to ensure the Department maintains its ability to execute the funding, develops its management practices, measures achievements and progress, and continues its efforts to coordinate research priorities with the National Institute of Health [NIH] in order to avoid unnecessary, duplicative research. Therefore, the Committee directs the Comptroller General of the United States to conduct a review of the CDMRP that includes the program’s budget development, budget execution, and research coordination with the NIH and the Department of Veteran’s Affairs. The Committee directs the Comptroller General to brief the Senate and House Appropriations Committees on its preliminary findings not later than 180 days after the enactment of this act and to provide a full report to the same Committees at a date agreed upon at the time of the preliminary briefing.

Traumatic Brain Injury/Psychological Health.—The Committee recommends \$70,000,000 above the fiscal year 2021 budget request for continued research into treatment, prevention, and detection of Traumatic Brain Injury [TBI] and improved psychological health. The Committee directs the Assistant Secretary of Defense (Health Affairs) to submit a report to the congressional defense committees not later than 18 months after the enactment of this act on expenditure and obligation data of funding added by Congress for psychological health and TBI. This report should include the delineation of funds and information on agreements made with other government agencies.

Additionally, the Committee is aware of recent medical advances in drug development for neurodegenerative diseases and encourages the Department to further its research into developing drugs that reverse, halt, or slow the neurodegenerative process associated with TBI, including opportunities through public-private partnerships, such as the Medical Technology Consortium. The Committee is also aware of recent scientific evidence that suggests rotational acceleration resulting from blunt impact is a contributing factor to mild TBI [mTBI] and concussion, and encourages the Department to continue to work with and support research at non-Department of Defense entities that have developed and proposed rotational impact test methodologies to provide enhanced protection solutions.

The Committee also notes that more work needs to be done to diagnose TBI in all its forms, including mTBI and concussion. The Committee encourages the Department to continue research into and deployment of mTBI/concussion multi-modal diagnostic devices that have been cleared by the Food and Drug Administration. Fi-

nally, the Committee understands that chronic migraine is often associated with post-traumatic headaches of patients who suffer from TBI. Given the lack of data in this area, the Committee encourages the Department to support research to develop biomarkers useful in diagnosing and monitoring TBI patients with chronic migraine or post-traumatic headache.

Peer-Reviewed Medical Research Program.—The Committee recommends \$370,000,000 for the Peer-Reviewed Medical Research Program. The Committee directs the Secretary of Defense, in conjunction with the Service Surgeons General, to select medical research projects of clear scientific merit and direct relevance to military health. Research areas considered under this funding are restricted to: Alzheimer's arthritis, autism, burn pit exposure, cardiomyopathy, congenital heart disease, diabetes, Duchenne muscular dystrophy, eating disorders, emerging viral diseases, epidermolysis bullosa, familial hypercholesterolemia, fibrous dysplasia, focal segmental glomerulosclerosis, food allergies, Fragile X, frontotemporal degeneration, gulf war illness, hemorrhage control, hepatitis B, hydrocephalus, hypertension, inflammatory bowel diseases, lupus, malaria, metals toxicology, mitochondrial disease, multiple sclerosis, myalgic encephalomyelitis/chronic fatigue syndrome, myotonic dystrophy, neurofibromatosis, non-opioid therapy for pain management, nutrition optimization, Parkinson's, pathogen-inactivated blood products, peripheral neuropathy, plant-based vaccines, platelet like cell production, polycystic kidney disease, pressure ulcers, reconstructive transplantation, respiratory health, rheumatoid arthritis, sleep disorders and restriction, suicide prevention, sustained release drug delivery, tick-borne diseases, trauma, tuberous sclerosis complex, vision, and women's heart disease. The Committee emphasizes that the additional funding provided under the Peer-Reviewed Medical Research Program shall be devoted only to the purposes listed above.

Joint Warfighter Medical Research Program.—The Committee recommends \$25,000,000 for the Joint Warfighter Medical Research Program. Funds shall be used to augment and accelerate high priority Department of Defense and Service medical requirements and to continue both core and congressionally-directed prior year initiatives that are close to achieving their objectives and yielding a benefit to military medicine. These funds shall not be used for new projects or basic research, and they shall be awarded at the discretion of the Secretary of Defense following a review of medical research and development gaps, as well as unfinanced medical requirements of the Services. Further, the Committee directs the Assistant Secretary of Defense (Health Affairs) to provide a report not later than 18 months 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.

Peer-Reviewed Cancer Research Programs.—The Committee recommends \$130,000,000 for the peer-reviewed breast cancer research program, \$70,000,000 for the peer-reviewed prostate cancer research program, \$30,000,000 for a peer-reviewed melanoma re-

search program, \$10,000,000 for the peer-reviewed ovarian cancer research program, \$17,500,000 for a peer-reviewed rare cancers research program, and \$115,000,000 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; esophageal cancer; kidney cancer; liver cancer; lung cancer; neuroblastoma; pancreatic cancer; pediatric brain tumors; pediatric, adolescent, and young adult cancers; and stomach cancer.

The funds provided under the peer-reviewed cancer research program shall be used only for the purposes listed above. The Committee directs the Assistant Secretary of Defense (Health Affairs) to provide a report not later than 18 months after the enactment of this act to the congressional defense committees on the status of the peer-reviewed cancer research program. For each research area, the report should include the funding amount awarded, the progress of the research, and the relevance of the research to servicemembers.

Orthotics and Prosthetics Outcomes Research.—The Committee recommends \$15,000,000 in support of orthotics and prosthetics outcomes research. The focus of this research should be on outcomes-based best practices through analysis of the merits of clinical options currently available, not on the development or improvement of new and existing technology. The Committee directs the Assistant Secretary of Defense (Health Affairs) to provide a report not later than 18 months after the enactment of this act to the congressional defense committees on the peer-reviewed projects that receive funding. The report should include the funding amount awarded to each project and the anticipated effect on patient care.

Chronic Pain Management Research.—The Committee recommends \$15,000,000 for a chronic pain management research program to research opioid-alternative or non-addictive methods to treat and manage chronic pain. Chronic pain is defined as a pain that occurs on at least half the days for 6 months or more and which can be caused by issues, including but not limited to: combat- and training-related physical or mental stress and trauma, migraines and chronic headaches, traumatic brain injury, arthritis, muscular-skeletal conditions, neurological disease, tick and vector-borne disease, other insect-transmitted or tropical disease, and cancer. The funds provided in the chronic pain management research program shall be used to conduct research on the effects of using prescription opioids to manage chronic pain and for researching alternatives, namely non-opioid or non-addictive methods to treat and manage chronic pain, with a focus on issues related to military populations. The Committee encourages the Department to collaborate with non-military research institutions, such as the institutions of the National Institutes of Health Pain Consortium and the institutions represented in the Interagency Pain Research Coordinating Committee, to address the efforts outlined in the 2016 National Pain Strategy.

Warfighter Respiratory Health.—The Committee remains concerned about respiratory ailments among deployed and returning servicemembers and their deleterious effects on combat and personnel readiness. It is estimated that respiratory diseases affect more than 100,000 servicemembers each year and result in almost 27,000 lost workdays per year. The Committee has included respiratory health as part of the Peer-Reviewed Medical Research Program and urges the Assistant Secretary of Defense (Health Affairs) to development a comprehensive, broad-based warfighter respiratory research program that is necessary to support overall readiness.

Epilepsy Research.—The Committee remains concerned about the large number of service men and women returning from combat zones who have sustained TBI and the long term consequences of TBI. These wounded warriors are at high risk for developing post-traumatic epilepsy, depression, cognitive difficulties, and post-traumatic stress disorder, which may be interconnected. As current TBI longitudinal studies have not included epilepsy, the Committee encourages the Department to place greater priority and invest more funding in longitudinal epidemiological research, including epilepsy surveillance, to better understand the magnitude of the problem and improve patient care and outcomes. To assist in these efforts, the Committee recommends \$12,000,000 in support of epilepsy research. Additionally, the Committee urges the Department to expand research into the mechanisms by which brain injury produces epilepsy and research directed at the prevention of epilepsy and concomitant comorbidities in those known to be at high risk.

Melanoma Research.—The Committee understands that melanoma diagnoses are increasing among active duty servicemembers and that melanoma is the fifth most common cancer among veterans. Recent research suggests that exposure to high levels of solar radiation in young adulthood is associated with a higher risk of melanoma mortality. Given the extreme and harsh conditions servicemembers face in theater and the rise of this aggressive and frequently deadly form of cancer, the Committee encourages the Department to continue its investments in melanoma research and recommends \$30,000,000 for a peer-reviewed melanoma research program.

Peer-reviewed Amyotrophic Lateral Sclerosis.—The committee is aware of research that reports that people who served in the military are twice as likely to develop and die from Amyotrophic Lateral Sclerosis [ALS] as those with no history of military service, and therefore, it is especially important that this research be continued into early phase clinical trials. The Committee encourages the Department of Defense to take a broad approach to the type of research projects it may support through the peer-reviewed approach to help advance potential treatments for people living with ALS. The committee recommends \$40,000,000 for a peer-reviewed ALS research program.

Medical Defense Against Infectious Disease.—The Committee recognizes the importance of medical countermeasures to naturally occurring infectious diseases, such as malaria, Dengue, and Chikungunya viruses. These pose a significant threat to the strategic access and operational effectiveness of forces deployed outside

the United States. The Committee remains concerned with the Department's decisions over recent years to precipitously decrease funding for malaria research, particularly due to the emergence of increased malaria resistance in Asia, as malaria remains the number one infectious disease threat to U.S. servicemembers abroad. The Committee commends the research on malaria and malaria vaccines performed by the Walter Reed Army Institute of Research and encourages the Department to continue investing in research for chemoprophylaxis, surveillance, vaccine development, and other countermeasures for malaria. The Committee further encourages the Department to partner with colleges and universities that have strong research programs in infectious diseases, as well as other Federal agencies, foreign governments, international agencies, and non-profit organizations.

Substance Abuse.—The Committee understands that wounded, ill, and injured servicemembers and their families face complicated and complex challenges, which at times can lead to attempts at self-medication and other substance use disorders. The Committee recognizes the need to provide opioid safety and substance use educational resources to at-risk servicemembers and their families in order to better prepare them for their warrior care and transition. As such, the Committee supports programs that utilize harm reduction techniques and offer confidential educational information that can reduce substance use, relapse, hospital visits, and suicide. The Committee commends the Army Substance Abuse Program [ASAP] for its efforts in deterrence, prevention, and effective treatment of substance use disorders through awareness, education, risk reduction, employee assistance, and early referral. The Committee encourages the Department to ensure that the program and its resources are also accessible through an Internet-based educational program with tools related to substance use in order to assist and safeguard their warrior care and transition.

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

Support for Children with Severe Behavioral Challenges.—The Committee encourages the Secretary of Defense to expand the utilization of partnerships with qualified non-profit healthcare organizations, universities, and/or institutions that have the ability to provide a continuum of care for children with severe behavioral challenges in an evidenced-based, and measurable manner. Such services should include outpatient programs that offer center-based

and telehealth services, as well as inpatient, home-based and community programs with previously demonstrated track records of success.

Sexual Trauma Treatment Pilot Program.—The Committee recommends \$4,000,000 to implement section 702 of the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Public Law 115–232), a Pilot Program on Treatment of Members of the Armed Forces for Post-Traumatic Stress Disorder Related to Military Sexual Trauma, which explicitly states that the pilot program “shall be carried out through partnerships with public, private, and non-profit healthcare organizations, universities, and institutions.” The Committee is concerned that nearly 2 years after enactment of Public Law 115–232, the Department has not yet selected any civilian partners nor settled on a process for distributing appropriated funds to such partners. Funds appropriated for this pilot program in fiscal year 2020 shall be distributed to civilian partners without further delay. For funds recommended for fiscal year 2021, the Assistant Secretary of Defense (Health Affairs) shall submit a spend plan to the House and Senate Appropriations Committees prior to the obligations of funds.

CHEMICAL AGENTS AND MUNITIONS DESTRUCTION, DEFENSE

Appropriations, 2020	\$985,499,000
Budget estimate, 2021	889,500,000
Committee recommendation	889,500,000

The Committee recommends an appropriation of \$889,500,000. This is equal to the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

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

[Dollars in thousands]

Line	Item	Qty.	2021 budget estimate	Qty.	Committee recommendation	Change from	
						Qty.	Budget estimate
	CHEMICAL AGENTS AND MUNITIONS DESTRUCTION, DEFENSE						
1	CHEM DEMILITARIZATION—OPERATION AND MAINTENANCE		106,691		106,691		
3	CHEM DEMILITARIZATION—PROCUREMENT		616		616		
2	CHEM DEMILITARIZATION—RESEARCH, DEVELOPMENT, TEST AND EVALUATION		782,193		782,193		
	TOTAL, CHEMICAL AGENTS AND MUNITIONS DESTRUCTION, DEFENSE		889,500		889,500		

DRUG INTERDICTION AND COUNTER-DRUG ACTIVITIES, DEFENSE

Appropriations, 2020	\$893,059,000
Budget estimate, 2021	769,629,000
Committee recommendation	923,429,000

The Committee recommends an appropriation of \$923,429,000. This is \$153,800,000 above the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

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

(In thousands of dollars)

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
010	Counter-Narcotics Support	546,203	580,003	+ 33,800
	Program increase: Multi-Mission Support Vessel			+ 18,000
	Program Increase: Pacific Deterrence Initiative - Joint Interagency Task Force—West Project 3309			+ 13,000
	Program Increase: Pacific Deterrence Initiative - Joint Interagency Task Force—West Project 9202			+ 2,800
020	Drug Demand Reduction Program	123,704	123,704	
030	National Guard Counter-Drug Program	94,211	194,211	+ 100,000
	Program increase			+ 100,000
040	National Guard Counter-Drug Schools	5,511	25,511	+ 20,000
	Program increase			+ 20,000
	Total, Drug Interdiction and Counter-Drug Activities	769,629	923,429	+ 153,800

OFFICE OF THE INSPECTOR GENERAL

Appropriations, 2020	\$363,499,000
Budget estimate, 2021	371,439,000
Committee recommendation	371,439,000

The Committee recommends an appropriation of \$371,439,000. This is equal to the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

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

(In thousands of dollars)

Item	2021 budget estimate	Committee recommendation	Change from budget estimate
Office of the Inspector General, Operation and Maintenance	369,483	369,483	
Office of the Inspector General, Research and Development	1,098	1,098	
Office of the Inspector General, Procurement	858	858	
TOTAL, OFFICE OF THE INSPECTOR GENERAL	371,439	371,439	

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

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

TITLE VII
RELATED AGENCIES

CENTRAL INTELLIGENCE AGENCY RETIREMENT AND DISABILITY
SYSTEM FUND

Appropriations, 2020	\$514,000,000
Budget estimate, 2021	514,000,000
Committee recommendation	514,000,000

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

INTELLIGENCE COMMUNITY MANAGEMENT ACCOUNT

Appropriations, 2020	\$556,000,000
Budget estimate, 2021	663,000,000
Committee recommendation	624,653,000

The Committee recommends an appropriation of \$624,653,000.
This is \$38,347,000 below the budget estimate.

TITLE VIII

GENERAL PROVISIONS

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

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

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

SEC. 8003. *Annual Availability of Appropriations*.—Retains a provision carried in previous years.

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

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

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

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

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

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

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

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

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

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

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

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

SEC. 8016. *Strategic Delivery Vehicles*.—Retains a provision carried in previous years.

SEC. 8017. *Alcoholic Beverages*.—Retains a provision carried in previous years.

SEC. 8018. *Demilitarization of Surplus Firearms*.—Retains a provision carried in previous years.

SEC. 8019. *Relocations into the National Capital Region*.—Retains a provision carried in previous years.

SEC. 8020. *Indian Financing Act.*—Retains and modifies a provision carried in previous years.

SEC. 8021. *Defense Media Activity.*—Retains a provision carried in previous years.

SEC. 8022. *Burden Sharing With Kuwait.*—Retains a provision carried in previous years.

SEC. 8023. *Civil Air Patrol.*—Retains and modifies a provision carried in previous years.

SEC. 8024. *Federally Funded Research and Development Centers.*—Retains and modifies a provision carried in previous years.

SEC. 8025. *Carbon, Alloy, or Armor Steel Plate.*—Retains a provision carried in previous years.

SEC. 8026. *Congressional Defense Committee Definition.*—Retains a provision carried in previous years.

SEC. 8027. *Depot Maintenance Competition.*—Retains a provision carried in previous years.

SEC. 8028. *Reciprocal Trade Agreements.*—Retains and modifies a provision carried in previous years.

SEC. 8029. *Overseas Military Facility Investment.*—Retains and modifies a provision carried in previous years.

SEC. 8030. *Walking Shield.*—Retains a provision carried in previous years.

SEC. 8031. *Investment Item Unit Cost.*—Retains a provision carried in previous years.

SEC. 8032. *Transfer Authority for Amphibs.*—Inserts a new provision related to transfer authority for amphibious assault ships within the Shipbuilding and Conversion, Navy account.

SEC. 8033. *Asia-Pacific Regional Initiative.*—Retains and modifies a provision carried in previous years.

SEC. 8034. *Tobacco Use in the Military.*—Retains a provision carried in previous years.

SEC. 8035. *Working Capital Fund Investment Item Restrictions.*—Retains a provision carried in previous years.

SEC. 8036. *CIA Availability of Funds.*—Retains and modifies a provision carried in previous years.

SEC. 8037. *Tribal Lands Environmental Impact.*—Retains and modifies a provision carried in previous years.

SEC. 8038. *Buy American Act Compliance.*—Retains a provision carried in previous years.

SEC. 8039. *Field Operating Agencies.*—Retains a provision carried in previous years.

SEC. 8040. *Contractor Conversion and Performance.*—Retains a provision carried in previous years.

SEC. 8041. *Rescissions.*—The Committee recommends a general provision rescinding funds from prior years as displayed below:

	Amount
2014 Appropriations	
Shipbuilding and Conversion, Navy: DDG-51: DDG 119	\$66,567

	Amount
2019 Appropriations	
Procurement of Weapons and Tracked Combat Vehicles, Army:	
Bradley Program	90,000
Armored Multi Purpose Vehicle (AMPV)	9,590
Bradley Program (MOD)	12,779
Aircraft Procurement, Navy:	
Joint Strike Fighter CV	45
JSF STOVL	66
MQ-4 Triton AP	15,967
AEA	15,000
Aircraft Procurement, Air Force:	
B-52 1760 IWBU	14,100
C-135B	125,000
Combat Rescue Helicopter	25,000
HC-130J recap	17,500
MC-130J recap	41,124
RQ-4 mods	120,296
RQ-4 post production support	17,100
F-35	25,928
KC-46A MDAP	9,400
F-16	45,255
F-15 EPAW	144,542
C-5	1,600
OC-135B	5,744
Initial Spares/Repair Parts	21,069
2020 Appropriations	
Aircraft Procurement, Army:	
AH-64 Apache Block IIIA Reman	22,500
UH-60 Black Hawk L and V Models	4,400
Missile Procurement, Army:	
Stinger Mods	2,377
Procurement of Weapons and Tracked Combat Vehicles, Army:	
Stryker Upgrade	70,000
Bradley Program (MOD)	61,141
Paladin Integrated Management (PIM)	9,000
Procurement of Ammunition, Army:	
Proj 155mm Extended Range M982	7,500
Other Procurement, Army:	
Ground Mobility Vehicles	2,278
PLS/ESP	1,297
Aircraft Procurement, Navy:	
Joint Strike Fighter CV	13,060
JSF STOVL	10,878
Joint Strike Fighter STOVL AP	43,572
CH-53K AP	89,583
E-2D	18,000
Advanced Helicopter Training System	57,737
MQ-4 Triton AP	20,139
Procurement of Ammunition, Navy and Marine Corps:	
Practice Bombs	8,388
5"/54 Gun Ammo	585
Shipbuilding and Conversion, Navy: TAO Fleet Oiler (AP)	73,000
Shipbuilding and Conversion, Navy: VCS (AP)	200,000
Other Procurement, Navy:	
LSD midlife and modernization	22,632
Surface Combatant HM&E	31,500
Aircraft Procurement, Air Force:	
C-17 BLOS	4,385
C-5 CNS/ATM	7,900
Combat Rescue Helicopter	65,000
E-11 BACN Gateway UON	43,000
KC-46	209,588
MC-130J recap	92,400

	Amount
RQ-4 post production support	23,896
F-35	40,612
F-22A	39,752
F-15 EPAW	68,392
KC-46A MDAP	5,213
C-130J Mods	3,403
Initial Spares/Repair Parts	34,946
Other Procurement, Air Force:	
Classified	15,000
Classified	5,000
GCSS-AF FOS (LOGIT)	11,226
Wide Area Surveillance	41,800
Space Procurement, Air Force:	
National Security Space Launch (NSSL)	61,000
Research, Development, Test and Evaluation, Army:	
Indirect Fire Protection Capability Inc 2 Block 1	74,286
Improved Turbine Engine Program	25,000
Manned Ground Vehicle	171,205
Long Range Precision Fires	30,000
Research, Development, Test and Evaluation, Navy:	
New Design SSN	70,000
Classified adjustment	14,005
Research, Development, Test and Evaluation, Air Force:	
Hypersonics Prototyping	80,300
Evolved Strategic SATCOM (ESS)	32,000
Combat Training Ranges	1,500
Long Range Standoff Weapon	20,000
Combat Rescue Helicopter	17,000
B-2 Defensive Management System	25,700
KC-46A Tanker Squadrons	13,868
Air & Space Operations Center [AOC]	12,980
Arms Control Implementation	33,848
Classified adjustment	25,366
Research, Development, Test and Evaluation, Defense-Wide:	
Basic research initiatives	14,110
Tactical Technology	25,000
Counter weapons of mass destruction applied research	3,000
Combating terrorism technology support	8,500
Space programs and technology	57,000
Emerging capabilities technology development	36,000
Distributed learning advanced technology development	5,000
Quick reaction special projects	9,000
Operational capability energy improvement	10,000
National Security Innovation Network	10,000
Chemical and biological defense program-Dem/Val	10,000
Advanced Innovative Technologies	150,000
Information technology development	1,500
Information systems security program (OSD)	20,000
Information systems security program [DISA]	4,000
MDA hypersonic defense—Partner test	25,100
Improved homeland defense interceptors	118,000

SEC. 8042. *Civilian Technician Reductions.*—Retains a provision carried in previous years.

SEC. 8043. *North Korea.*—Retains a provision carried in previous years.

SEC. 8044. *Reserve Component Intelligence Reimbursement.*—Retains and modifies to make permanent a provision carried in previous years.

SEC. 8045. *Counter-Drug Activities Transfer.*—Retains a provision carried in previous years.

SEC. 8046. *Funding to Maintain Competitive Rates at Arsenals.*—Retains and modifies a provision carried in previous years.

SEC. 8047. *United Service Organizations Grant*.—Retains and modifies a provision carried in previous years.

SEC. 8048. *Buy American Computers*.—Retains a provision carried in previous years.

SEC. 8049. *Small Business Set-Asides*.—Retains and modifies a provision carried in previous years.

SEC. 8050. *Contractor Bonuses*.—Retains a provision carried in previous years.

SEC. 8051. *Reserve Peacetime Support*.—Retains a provision carried in previous years.

SEC. 8052. *Unexpended Balances*.—Retains and modifies a provision carried in previous years.

SEC. 8053. *National Guard Distance Learning*.—Retains a provision carried in previous years.

SEC. 8054. *Sexual Assault Prevention Programs*.—Retains and modifies a provision carried in previous years.

SEC. 8055. *End-Item Procurement*.—Retains and modifies a provision carried in previous years.

SEC. 8056. *Buy American Waivers*.—Retains a provision carried in previous years.

SEC. 8057. *Military Family Housing*.—Retains a provision carried in previous years.

SEC. 8058. *Joint Capability Demonstration Project*.—Retains a provision carried in previous years.

SEC. 8059. *Secretary of Defense Reporting Requirement*.—Retains a provision carried in previous years.

SEC. 8060. *Missile Defense Authorization*.—Retains a provision carried in previous years.

SEC. 8061. *Armor-Piercing Ammo*.—Retains a provision carried in previous years.

SEC. 8062. *Personal Property Lease Payments*.—Retains a provision carried in previous years.

SEC. 8063. *Classified O&M, Army Transfer*.—Retains and modifies a provision carried in previous years.

SEC. 8064. *National Intelligence Program Separation*.—Retains a provision carried in previous years.

SEC. 8065. *O&M, Navy Transfer to Stennis Center*.—Retains and modifies a provision carried in previous years.

SEC. 8066. *Assignment of Forces*.—Retains a provision carried in previous years.

SEC. 8067. *Rapid Acquisition Authority Reporting Requirement*.—Retains a provision carried in previous years.

SEC. 8068. *Israeli Cooperative Programs*.—Retains and modifies a provision carried in previous years.

SEC. 8069. *Prior Year Shipbuilding*.—Retains and modifies a provision carried in previous years.

SEC. 8070. *Intelligence Authorization*.—Retains and modifies a provision carried in previous years.

SEC. 8071. *New Start Authority*.—Retains a provision carried in previous years.

SEC. 8072. *Contingency Operations Budget Justification*.—Retains and modifies a provision carried in previous years.

SEC. 8073. *Nuclear Armed Interceptors*.—Retains a provision carried in previous years.

SEC. 8074. *Rapid Acquisition Authority*.—Retains and modifies a provision carried in previous years.

SEC. 8075. *53rd Weather Reconnaissance Squadron*.—Retains a provision carried in previous years.

SEC. 8076. *Integration of Foreign Intelligence*.—Retains a provision carried in previous years.

SEC. 8077. *Army Tactical UAVs*.—Retains a provision carried in previous years.

SEC. 8078. *DNI R&D Waiver*.—Retains and modifies a provision carried in previous years.

SEC. 8079. *Shipbuilding Obligations*.—Retains a provision carried in previous years.

SEC. 8080. *DNI Reprogramming Baseline*.—Retains and modifies a provision carried in previous years.

SEC. 8081. *Support to Friendly Foreign Countries*.—Retains and modifies a provision carried in previous years.

SEC. 8082. *Defense Acquisition Workforce Development Account*.—Retains and modifies a provision regarding reprogrammings.

SEC. 8083. *Child Soldiers*.—Retains a provision carried in previous years.

SEC. 8084. *NIP New Starts, Transfers, and Terminations*.—Retains a provision carried in previous years.

SEC. 8085. *On-orbit Incentive Payments*.—Inserts a new provision regarding Space Force on-orbit incentive payments.

SEC. 8086. *Congressional Intelligence Committee Definition*.—Retains a provision carried in previous years.

SEC. 8087. *Fisher House Authorization*.—Retains a provision carried in previous years.

SEC. 8088. *Defense Acquisition Workforce Development Account*.—Retains and modifies a provision regarding use of expiring funds.

SEC. 8089. *Public Disclosure of Agency Reports*.—Retains a provision carried in previous years.

SEC. 8090. *Contractor Compliance With the Civil Rights Act of 1964*.—Retains a provision carried in previous years.

SEC. 8091. *DOD-VA Medical Facility Demonstration*.—Retains and modifies a provision carried in previous years.

SEC. 8092. *Exchanging Ballistic Missile Defense Information*.—Retains a provision carried in previous years.

SEC. 8093. *Armored Vehicles*.—Retains a provision carried in previous years.

SEC. 8094. *NIP Special Transfer Authority*.—Retains and modifies a provision carried in previous years.

SEC. 8095. *Transfer of Khalid Sheik Mohammad and Others*.—Retains a provision carried in previous years.

SEC. 8096. *Transfer of Detainees to or Within the United States*.—Retains a provision carried in previous years.

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

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

SEC. 8099. *Detainee Facilities*.—Retains a provision carried in previous years.

SEC. 8100. *National Defense Reserve Fleet*.—Inserts a new provision regarding purchase of vessels for the National Defense Reserve Fleet.

SEC. 8101. *Public Disclosure of Grant Agreement*.—Retains a provision carried in previous years.

SEC. 8102. *Rapid Prototyping Fund Reprogrammings and Account Reductions*.—Retains and modifies a provision carried in previous years.

SEC. 8103. *Restrictions on NSA*.—Retains a provision carried in previous years.

SEC. 8104. *Transfers to Another Federal Agency*.—Retains a provision carried in previous years.

SEC. 8105. *Authority to Transfer O&M, Navy Funds to Ready Reserve Force, Maritime Administration Account*.—Retains and modifies a provision carried in previous years.

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

SEC. 8107. *Crime Databases Reporting Requirement*.—Retains and modifies a provision carried in previous years.

SEC. 8108. *T-AOX Oiler Program*.—Retains and modifies a provision carried in previous years.

SEC. 8109. *Rapid Prototyping with DAWDA*.—Retains and modifies a provision carried in previous years.

SEC. 8110. *Blocking Pornography on Computers*.—Retains a provision carried in previous years.

SEC. 8111. *Closure of GTMO*.—Retains a provision carried in previous years.

SEC. 8112. *Prohibition on Use of Equipment for Ceremonial Honors*.—Retains a provision carried in previous years.

SEC. 8113. *Modification of Six F-35s*.—Inserts a new provision regarding the modification of six F-35s with procurement and research and development funding.

SEC. 8114. *Integrity in Federal Contracting*.—Retains a provision carried in previous years.

SEC. 8115. *Background Investigations Advance Billing*.—Retains and modifies a provision carried in previous years.

SEC. 8116. *Transfer of DoD/IC Element to Space Force*.—Inserts a new provision prohibiting transfer of DoD and IC elements to Space Force without a plan for transfer.

SEC. 8117. *Use of Titles I and IX Military Personnel funding for Space Force*.—Inserts a new provision regarding military personnel funding from base and OCO for Space Force.

SEC. 8118. *Fuel Savings*.—Inserts a new provision regarding fuel savings.

SEC. 8119. *Software and digital technology pilot*.—Inserts a new provision regarding the use of a pilot program for digital technology.

SEC. 8120. *Defense Industrial Base Resiliency*.—Inserts a new provision regarding defense industrial base and supply chain resiliency.

SEC. 8121. *CH-47 Reimbursements*.—Inserts a new provision regarding Army use of CH-47 reimbursements.

SEC. 8122. *O&M Readiness Funds and Transfer Authority*.—Inserts a new provision that provides for O&M readiness funds and transfer authority.

TITLE IX
OVERSEAS CONTINGENCY OPERATIONS

DEPARTMENT OF DEFENSE—MILITARY

The Committee recommends an appropriation of \$68,650,000,000 for operations related to Overseas Contingency Operations. In fiscal year 2020 Congress appropriated \$70,665,000,000 for activities funded in this title in Public Law 116–93.

COMMITTEE RECOMMENDED PROGRAM

The following table summarizes the Committee recommendation:

[In thousands of dollars]

Account	Fiscal year 2020 enacted	Fiscal year 2021 estimate	Committee recommendation
Military Personnel	4,485,808	4,602,593	4,602,593
Operation and Maintenance	53,891,051	58,179,782	56,784,603
Procurement	11,793,461	5,128,098	5,873,893
Research, Development, Test and Evaluation	834,222	330,508	295,841
Revolving and Management Funds	20,100	20,090	20,090
Other Department of Defense Programs	525,100	389,167	389,167
General Provisions (net)	– 884,742	.....	683,813
Total, Overseas Contingency Operations	70,665,000	68,650,238	68,650,000

OVERVIEW

COMMITTEE RECOMMENDATION

The Committee recommends \$68,650,000,000 of additional appropriations for Overseas Contingency Operations in fiscal year 2021. This funding will ensure that resources, equipment, and supplies are available for our servicemembers without interruption, and will enable the Department to avoid absorbing operational costs from within baseline programs that are critical to future readiness and home-station activities.

REPORTING REQUIREMENTS

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

MILITARY PERSONNEL

The Committee recommends a total of \$4,602,593,000 for pay, allowances, and other personnel costs for Active, Reserve, and Guard troops activated for duty in Afghanistan and other contingency operations. This recommendation includes funding for subsistence, permanent change of station travel, and special pays including imminent danger pay, family separation allowance, and hardship duty pay.

MILITARY PERSONNEL, ARMY

Appropriations, 2020	\$2,743,132,000
Budget estimate, 2021	2,748,033,000
Committee recommendation	2,748,033,000

The Committee recommends an appropriation of \$2,748,033,000. This is equal to the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table details the program recommended by the Committee:

(In thousands of dollars)

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
	BA 1: Pay and Allowances of Officers			
005	Basic Pay	450,089	450,089	.....
010	Retired Pay Accrual	121,524	121,524	.....
025	Basic Allowance for Housing	121,394	121,394	.....
030	Basic Allowance for Subsistence	16,302	16,302	.....
035	Incentive Pays	2,379	2,379	.....
040	Special Pays	25,555	25,555	.....
045	Allowances	16,194	16,194	.....
050	Separation Pay	2,543	2,543	.....
055	Social Security Tax	34,432	34,432	.....
	Total, Budget Activity 1	790,412	790,412	.....
	BA 2: Pay and Allowances of Enlisted			
060	Basic Pay	777,103	777,103	.....
065	Retired Pay Accrual	209,818	209,818	.....
080	Basic Allowance for Housing	369,533	369,533	.....
085	Incentive Pays	1,270	1,270	.....
090	Special Pays	66,121	66,121	.....
095	Allowances	45,638	45,638	.....
100	Separation Pay	4,105	4,105	.....
105	Social Security Tax	59,449	59,449	.....
	Total, Budget Activity 2	1,533,037	1,533,037	.....
	BA 4: Subsistence of Enlisted Personnel			
115	Basic Allowance for Subsistence	88,317	88,317	.....
120	Subsistence-In-Kind	297,516	297,516	.....
	Total, Budget Activity 4	385,833	385,833	.....
	BA 5: Permanent Change of Station			
135	Operational Travel	4,456	4,456	.....
140	Rotational Travel	1,055	1,055	.....

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
	Total, Budget Activity 5	5,511	5,511	.....
	BA 6: Other Military Personnel Costs			
175	Interest on Uniformed Services Savings	4,035	4,035	.....
180	Death Gratuities	3,100	3,100	.....
185	Unemployment Benefits	19,375	19,375	.....
216	SGLI Extra Hazard Payments	6,730	6,730	.....
	Total, Budget Activity 6	33,240	33,240	.....
	Total, Military Personnel, Army	2,748,033	2,748,033	.....

MILITARY PERSONNEL, NAVY

Appropriations, 2020	\$356,392,000
Budget estimate, 2021	382,286,000
Committee recommendation	382,286,000

The Committee recommends an appropriation of \$382,286,000. This is equal to the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table details the program recommended by the Committee:

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
	BA 1: Pay and Allowances of Officers			
005	Basic Pay	76,596	76,596	.....
010	Retired Pay Accrual	20,681	20,681	.....
025	Basic Allowance for Housing	25,367	25,367	.....
030	Basic Allowance for Subsistence	2,444	2,444	.....
035	Incentive Pays	432	432	.....
040	Special Pays	3,647	3,647	.....
045	Allowances	7,199	7,199	.....
055	Social Security Tax	5,860	5,860	.....
	Total, Budget Activity 1	142,226	142,226	.....
	BA 2: Pay and Allowances of Enlisted			
060	Basic Pay	87,750	87,750	.....
065	Retired Pay Accrual	23,692	23,692	.....
080	Basic Allowance for Housing	46,929	46,929	.....
085	Incentive Pays	105	105	.....
090	Special Pays	7,849	7,849	.....
095	Allowances	14,581	14,581	.....
105	Social Security Tax	6,713	6,713	.....
	Total, Budget Activity 2	187,619	187,619	.....
	BA 4: Subsistence of Enlisted Personnel			
115	Basic Allowance for Subsistence	9,176	9,176	.....
120	Subsistence-In-Kind	21,664	21,664	.....
	Total, Budget Activity 4	30,840	30,840	.....

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
	BA 5: Permanent Change of Station Travel			
125	Accession Travel	6,202	6,202	.....
135	Operational Travel	60	60	.....
140	Rotational Travel	128	128	.....
145	Separation Travel	5,804	5,804	.....
	Total, Budget Activity 5	12,194	12,194	.....
	BA 6: Other Military Personnel Costs			
185	Unemployment Benefits	7,673	7,673	.....
216	SGLI Extra Hazard Payments	1,734	1,734	.....
	Total, Budget Activity 6	9,407	9,407	.....
	Total, Military Personnel, Navy	382,286	382,286	.....

MILITARY PERSONNEL, MARINE CORPS

Appropriations, 2020	\$104,213,000
Budget estimate, 2021	129,943,000
Committee recommendation	129,943,000

The Committee recommends an appropriation of \$129,943,000. This is equal to the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table details the program recommended by the Committee:

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
	BA 1: Pay and Allowances of Officers			
005	Basic Pay	25,398	25,398	.....
010	Retired Pay Accrual	6,858	6,858	.....
025	Basic Allowance for Housing	8,861	8,861	.....
030	Basic Allowance for Subsistence	820	820	.....
035	Incentive Pays	255	255	.....
040	Special Pays	1,059	1,059	.....
045	Allowances	1,338	1,338	.....
050	Separation Pay	433	433	.....
055	Social Security Tax	1,942	1,942	.....
	Total, Budget Activity 1	46,964	46,964	.....
	BA 2: Pay and Allowances of Enlisted			
060	Basic Pay	33,876	33,876	.....
065	Retired Pay Accrual	9,148	9,148	.....
080	Basic Allowance for Housing	21,206	21,206	.....
085	Incentive Pays	18	18	.....
090	Special Pays	5,630	5,630	.....
095	Allowances	3,932	3,932	.....
100	Separation Pay	705	705	.....
105	Social Security Tax	2,591	2,591	.....
	Total, Budget Activity 2	77,106	77,106	.....

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
	BA 4: Subsistence of Enlisted Personnel			
115	Basic Allowance for Subsistence	3,881	3,881	.....
	Total, Budget Activity 4	3,881	3,881	.....
	BA 6: Other Military Personnel Costs			
175	Interest on Uniformed Services Savings	250	250	.....
216	SGLI Extra Hazard Payments	1,742	1,742	.....
	Total, Budget Activity 6	1,992	1,992	.....
	Total, Military Personnel, Marine Corps	129,943	129,943	.....

MILITARY PERSONNEL, AIR FORCE

Appropriations, 2020	\$1,007,594,000
Budget estimate, 2021	1,077,168,000
Committee recommendation	1,077,168,000

The Committee recommends an appropriation of \$1,077,168,000. This is equal to the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table details the program recommended by the Committee:

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
	BA 1: Pay and Allowances of Officers			
005	Basic Pay	131,426	131,426	.....
010	Retired Pay Accrual	35,485	35,485	.....
025	Basic Allowance for Housing	41,038	41,038	.....
030	Basic Allowance for Subsistence	4,221	4,221	.....
040	Special Pays	5,211	5,211	.....
045	Allowances	5,547	5,547	.....
055	Social Security Tax	10,054	10,054	.....
	Total, Budget Activity 1	232,982	232,982	.....
	BA 2: Pay and Allowances of Enlisted			
060	Basic Pay	347,182	347,182	.....
065	Retired Pay Accrual	93,739	93,739	.....
080	Basic Allowance for Housing	147,758	147,758	.....
090	Special Pays	23,799	23,799	.....
095	Allowances	26,472	26,472	.....
105	Social Security Tax	26,559	26,559	.....
	Total, Budget Activity 2	665,509	665,509	.....
	BA 4: Subsistence of Enlisted Personnel			
115	Basic Allowance for Subsistence	34,678	34,678	.....
120	Subsistence-In-Kind	130,371	130,371	.....
	Total, Budget Activity 4	165,049	165,049	.....

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
	BA 6: Other Military Personnel Costs			
180	Death Gratuities	200	200	.....
185	Unemployment Benefits	8,447	8,447	.....
216	SGLI Extra Hazard Payments	4,981	4,981	.....
	Total, Budget Activity 6	13,628	13,628	.....
	Total, Military Personnel, Air Force	1,077,168	1,077,168	.....

RESERVE PERSONNEL, ARMY

Appropriations, 2020	\$34,812,000
Budget estimate, 2021	33,414,000
Committee recommendation	33,414,000

The Committee recommends an appropriation of \$33,414,000. This is equal to the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table details the program recommended by the Committee:

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
	BA 1: Reserve Component Training and Support			
080	Special Training	33,414	33,414	.....
	Total, Budget Activity 1	33,414	33,414	.....
	Total, Reserve Personnel, Army	33,414	33,414	.....

RESERVE PERSONNEL, NAVY

Appropriations, 2020	\$11,370,000
Budget estimate, 2021	11,771,000
Committee recommendation	11,771,000

The Committee recommends an appropriation of \$11,771,000. This is equal to the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table details the program recommended by the Committee:

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
	BA 1: Reserve Component Training and Support			
080	Special Training	11,771	11,771	.....
	Total, Budget Activity 1	11,771	11,771	.....
	Total, Reserve Personnel, Navy	11,771	11,771	.....

RESERVE PERSONNEL, MARINE CORPS

Appropriations, 2020	\$3,599,000
Budget estimate, 2021	2,048,000
Committee recommendation	2,048,000

The Committee recommends an appropriation of \$2,048,000. This is equal to the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table details the program recommended by the Committee:

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
	BA 1: Reserve Component Training and Support			
080	Special Training	2,001	2,001	.....
090	Administration and Support	47	47	.....
	Total, Budget Activity 1	2,048	2,048	.....
	Total, Reserve Personnel, Marine Corps	2,048	2,048	.....

RESERVE PERSONNEL, AIR FORCE

Appropriations, 2020	\$16,428,000
Budget estimate, 2021	16,816,000
Committee recommendation	16,816,000

The Committee recommends an appropriation of \$16,816,000. This is equal to the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table details the program recommended by the Committee:

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
	BA 1: Reserve Component Training and Support			
080	Special Training	16,816	16,816	.....
	Total, Budget Activity 1	16,816	16,816	.....
	Total, Reserve Personnel, Air Force	16,816	16,816	.....

NATIONAL GUARD PERSONNEL, ARMY

Appropriations, 2020	\$202,644,000
Budget estimate, 2021	195,314,000
Committee recommendation	195,314,000

The Committee recommends an appropriation of \$195,314,000. This is equal to the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table details the program recommended by the Committee:

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
	BA 1: Reserve Component Training and Support			
010	Pay Group A Training (15 Days & Drills 24/48)	62,718	62,718	.....
070	School Training	3,752	3,752	.....
080	Special Training	107,242	107,242	.....
090	Administration and Support	21,602	21,602	.....
	Total, Budget Activity 1	195,314	195,314	.....
	Total, National Guard Personnel, Army	195,314	195,314	.....

NATIONAL GUARD PERSONNEL, AIR FORCE

Appropriations, 2020	\$5,624,000
Budget estimate, 2021	5,800,000
Committee recommendation	5,800,000

The Committee recommends an appropriation of \$5,800,000. This is equal to the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table details the program recommended by the Committee:

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
	BA 1: Reserve Component Training and Support			
080	Special Training	5,800	5,800	.....
	Total, Budget Activity 1	5,800	5,800	.....
	Total, National Guard Personnel, Air Force	5,800	5,800	.....

OPERATION AND MAINTENANCE

The Committee recommends \$56,784,603,000 for the operation and maintenance accounts. These funds are available to fund overseas deployments and other activities by the services and Special Operations Forces to include financing flying hours, ship steaming days, ground operations, special airlift missions, increased ship and aircraft maintenance, logistics support, fuel purchases, base support, civilian personnel, personnel support costs, overseas transportation, communications support, facility management, and other operation and maintenance requirements.

OPERATION AND MAINTENANCE, ARMY

Appropriations, 2020	\$20,092,038,000
Budget estimate, 2021	17,137,754,000
Committee recommendation	17,020,703,000

The Committee recommends an appropriation of \$17,020,703,000. This is \$117,051,000 below the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table details the program recommended by the Committee:

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
111	Maneuver Units	4,114,001	4,114,001	.....
113	Echelons Above Brigade	32,811	32,811	.....
114	Theater Level Assets	2,542,760	2,497,760	- 45,000
	Maintain program affordability: Unjustified growth			- 45,000
115	Land Forces Operations Support	162,557	162,557	.....
116	Aviation Assets	204,396	204,396	.....
121	Force Readiness Operations Support	5,716,734	5,636,734	- 80,000
	Improving funds management: Program decrease unaccounted for			- 80,000
122	Land Forces Systems Readiness	180,048	180,048	.....
123	Land Forces Depot Maintenance	81,125	81,125	.....
131	Base Operations Support	219,029	219,029	.....
132	Facilities Sustainment, Restoration, and Modernization	301,017	301,017	.....
135	Additional Activities	966,649	1,034,598	+ 67,949
	Program increase: Operational OCO shortfall			+ 67,949
136	Commanders' Emergency Response Program	2,500	2,500	.....
137	Reset	403,796	403,796	.....
141	US Africa Command	100,422	100,422	.....
142	US European Command	120,043	120,043	.....
151	Cyberspace Activities—Cyberspace Operations	98,461	98,461	.....
153	Cyberspace Activities—Cybersecurity	21,256	21,256	.....
212	Army Prepositioned Stocks	103,052	103,052	.....
321	Specialized Skill Training	89,943	89,943	.....
324	Training Support	2,550	2,550	.....
421	Service-wide Transportation	521,090	521,090	.....
422	Central Supply Activities	43,897	43,897	.....
423	Logistics Support Activities	68,423	68,423	.....
424	Ammunition Management	29,162	29,162	.....
432	Service-wide Communications	11,447	11,447	.....
435	Other Service Support	5,839	5,839	.....
437	Real Estate Management	48,782	48,782	.....
441	International Military Headquarters	50,000	50,000	.....
999	Classified Programs	895,964	895,964	.....
UNDIST	Improving Funds Management: Program transfer unaccounted for		- 60,000	- 60,000
	Total, Operation and Maintenance, Army	17,137,754	17,020,703	- 117,051

OPERATION AND MAINTENANCE, NAVY

Appropriations, 2020	\$8,772,379,000
Budget estimate, 2021	10,700,305,000
Committee recommendation	10,580,305,000

The Committee recommends an appropriation of \$10,580,305,000. This is \$120,000,000 below the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table details the program recommended by the Committee:

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
1A1A	Mission And Other Flight Operations	382,062	382,062	.....
1A3A	Aviation Technical Data & Engineering Services	832	832	.....

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
1A4A	Air Operations And Safety Support	17,840	17,840	.....
1A4N	Air Systems Support	210,692	210,692	.....
1A5A	Aircraft Depot Maintenance	170,580	170,580	.....
1A6A	Aviation Depot Operations Support	5,854	5,854	.....
1A9A	Aviation Logistics	33,707	33,707	.....
1B1B	Mission And Other Ship Operations	5,817,696	5,717,696	- 100,000
	Maintain program affordability: Unjustified growth .....	.....	.....	- 100,000
1B2B	Ship Operations Support & Training	20,741	20,741	.....
1B4B	Ship Depot Maintenance	2,072,470	2,072,470	.....
1C1C	Combat Communications and Electronic Warfare	59,254	59,254	.....
1C3C	Space Systems and Surveillance	18,000	18,000	.....
1C4C	Warfare Tactics	17,324	17,324	.....
1C5C	Operational Meteorology And Oceanography	22,581	22,581	.....
1C6C	Combat Support Forces	772,441	752,441	- 20,000
	Improving funds management: Program transfer unaccounted for .....	.....	.....	- 20,000
1C7C	Equipment Maintenance and Depot Operations Support	5,788	5,788	.....
1CCM	Combatant Commanders Direct Mission Support	24,800	24,800	.....
1CCY	Cyberspace Activities	369	369	.....
1D4D	Weapons Maintenance	567,247	567,247	.....
1D7D	Other Weapons Systems Support	12,571	12,571	.....
B5M1	Facilities Sustainment, Restoration And Modernization	70,041	70,041	.....
B5S1	Base Operating Support	218,792	218,792	.....
2C1H	Expeditionary Health Service Systems	22,589	22,589	.....
3B1K	Specialized Skill Training	53,204	53,204	.....
4A1M	Administration	9,983	9,983	.....
4A4M	Military Manpower And Personnel Management	7,805	7,805	.....
4B1N	Servicewide Transportation	72,097	72,097	.....
4B3N	Acquisition, Logistics and Oversight	11,354	11,354	.....
4C1P	Investigative and Security Services	1,591	1,591	.....
	Total, Operation and Maintenance, Navy	10,700,305	10,580,305	- 120,000

OPERATION AND MAINTENANCE, MARINE CORPS

Appropriations, 2020	\$1,109,791,000
Budget estimate, 2021	1,102,600,000
Committee recommendation	1,090,667,000

The Committee recommends an appropriation of \$1,090,667,000. This is \$11,933,000 below the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table details the program recommended by the Committee:

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
1A1A	Operational Forces	727,989	741,056	+ 13,067
	Improving funds management: Program decreases unaccounted for .....	.....	.....	- 25,000
	Transfer from Title II: European Deterrence Initiative full request .....	.....	.....	+ 38,067
1A2A	Field Logistics	195,001	170,001	- 25,000
	Improving funds management: Program decreases unaccounted for .....	.....	.....	- 25,000
1A3A	Depot Maintenance	55,183	55,183	.....
1CCY	Cyberspace Activities	10,000	10,000	.....
B5S1	Base Operating Support	24,569	24,569	.....
3B4D	Training Support	28,458	28,458	.....

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
4A3G	Servicewide Transportation	61,400	61,400	.....
	Total, Operation and Maintenance, Marine Corps	1,102,600	1,090,667	- 11,933

OPERATION AND MAINTENANCE, AIR FORCE

Appropriations, 2020	\$10,359,379,000
Budget estimate, 2021	17,930,020,000
Committee recommendation	17,690,020,000

The Committee recommends an appropriation of \$17,690,020,000. This is \$240,000,000 below the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table details the program recommended by the Committee:

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
011A	Primary Combat Forces	125,551	125,551	.....
011C	Combat Enhancement Forces	916,538	916,538	.....
011D	Air Operations Training	93,970	93,970	.....
011M	Depot Purchase Equipment Maintenance	3,528,059	3,528,059	.....
011R	Facilities Sustainment, Restoration & Modernization	147,264	147,264	.....
011V	Cyberspace Sustainment	10,842	10,842	.....
011W	Contractor Logistics Support and System Support	7,187,100	7,187,100	.....
011Y	Flying Hour Program	2,031,548	2,031,548	.....
011Z	Base Operating Support	1,540,444	1,480,444	- 60,000
	Maintain program affordability: Unjustified growth .....	.....	.....	- 60,000
012A	Global C3I And Early Warning	13,709	13,709	.....
012C	Other Combat Ops Spt Programs	345,800	353,800	+ 8,000
	Maintain program affordability: Unjustified growth .....	.....	.....	- 20,000
	Transfer: Air Force-requested transfer of deployment preparation funding from SAG 44A .....	.....	.....	+ 28,000
012D	Cyberspace Activities	17,936	17,936	.....
012F	Tactical Intelligence and Special Activities	36,820	36,820	.....
013A	Launch Facilities	70	70	.....
013C	Space Control Systems	1,450	1,450	.....
015C	US NORTHCOM/NORAD	725	725	.....
015D	US STRATCOM	856	856	.....
015E	US CYBERCOM	35,189	35,189	.....
015F	US CENTCOM	126,934	156,134	+ 29,200
	Transfer: Air Force-requested transfer of Office of Security Cooperation-Iraq funding from 42G .....	.....	.....	+ 44,200
	Authorization adjustment: OSC-I transition to normalized security cooperation .....	.....	.....	- 15,000
021A	Airlift Operations	1,271,439	1,271,439	.....
021D	Mobilization Preparedness	120,866	120,866	.....
031A	Officer Acquisition	200	200	.....
031B	Recruit Training	352	352	.....
032A	Specialized Skill Training	27,010	27,010	.....
032B	Flight Training	844	844	.....
032C	Professional Development Education	1,199	1,199	.....
032D	Training Support	1,320	1,320	.....
041A	Logistics Operations	164,701	164,701	.....
041B	Technical Support Activities	11,782	11,782	.....
042A	Administration	3,886	3,886	.....
042B	Servicewide Communications	355	355	.....
042G	Other Servicewide Activities	100,831	56,631	- 44,200

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
044A	Transfer: Air Force-requested transfer of Office of Security Cooperation-Iraq funding to 15F			- 44,200
	International Support	29,928	1,928	- 28,000
043A	Transfer: Air Force-requested transfer of deployment preparation funding to SAG 12C			- 28,000
	Security Programs	34,502	34,502	
UNDIST	Maintain program affordability: Unjustified growth		- 88,000	- 88,000
UNDIST	Improving funds management: Program decrease unaccounted for		- 57,000	- 57,000
	Total, Operation and Maintenance, Air Force	17,930,020	17,690,020	- 240,000

OPERATION AND MAINTENANCE, SPACE FORCE

Appropriations, 2020	
Budget estimate, 2021	\$77,115,000
Committee recommendation	77,115,000

The Committee recommends an appropriation of \$77,115,000. This is equal to the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table details the program recommended by the Committee:

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
012A	Global C3I & Early Warning	227	227	
013A	Space Launch Operations	321	321	
013C	Space Operations	15,135	15,135	
013M	Depot Maintenance	18,268	18,268	
013W	Contractor Logistics & System Support	43,164	43,164	
	Total, Operation and Maintenance, Space Force	77,115	77,115	

OPERATION AND MAINTENANCE, DEFENSE-WIDE

Appropriations, 2020	\$7,803,193,000
Budget estimate, 2021	6,022,254,000
Committee recommendation	6,063,152,000

The Committee recommends an appropriation of \$6,063,152,000. This is \$40,898,000 above the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table details the program recommended by the Committee:

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
1PL1	Joint Chiefs of Staff	3,799	3,799	
8PL1	Joint Chiefs of Staff-CE2T2	6,634	6,634	
1PL6	Special Operations Command Combat Development Activities	898,024	898,024	
1PLU	Special Operations Command Intelligence	1,244,553	1,243,618	- 935
	Improving funds management: Repricing SOFIS contractor FTE			- 935

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
1PL7	Special Operations Command Maintenance	354,951	354,284	− 667
	Improving funds management: Inflation unaccounted for in program elimination			− 667
1PLV	Special Operations Command Operational Support	104,535	104,535	
1PLR	Special Operations Command Theater Forces	757,744	752,744	− 5,000
	Maintain program affordability: Section 1202 increased authority			− 5,000
4GT6	Defense Contract Audit Agency	1,247	1,247	
4GT0	Defense Contract Management Agency	21,723	21,723	
4GT9	Defense Information Systems Agency	56,256	56,256	
4GU9	Defense Information Systems Agency-Cyber	3,524	3,524	
4GTA	Defense Legal Services Agency	156,373	136,373	− 20,000
	Improving funds management: Program decrease unaccounted for			− 20,000
ES18	Defense Media Activity	3,555	3,555	
4GTD	Defense Security Cooperation Agency	1,557,763	1,625,263	+ 67,500
	Transfer from CTEF Iraq Security Cooperation Activities			+ 322,500
	Reduce Duplication: Border Security			− 180,000
	Maintain program affordability: Unjustified growth for Lift and Sustain			− 100,000
	Program increase: Baltics Security Cooperation			+ 25,000
4GTI	Defense Threat Reduction Agency	297,486	297,486	
4GTN	Office of the Secretary of Defense	16,984	16,984	
4GTQ	Washington Headquarters Services	1,997	1,997	
9999	Classified Programs	535,106	535,106	
	Total, Operation and Maintenance, Defense-Wide	6,022,254	6,063,152	+ 40,898

Coalition Support Funds.—After several years of failing to meet requirements in the National Defense Authorization Act that Pakistan make significant progress against the Haqqani Network in order to receive hundreds of millions of dollars in Coalition Support Funds [CSF], the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Public Law 115–232) terminated Pakistan’s eligibility for CSF. The act left Pakistan eligible for only \$150,000,000 in border security assistance. Accordingly, the Committee recommendation includes no CSF funds for Pakistan. The Committee recommendation maintains \$30,000,000 for the Coalition Readiness Support Program and \$250,000,000 in support for the border security activities of certain partner nations.

Ukraine Mine Mapping.—The Committee supports the U.S.-Ukraine partnership and recommends that funds from the Ukraine Security Assistance Initiative be used to assist Ukraine in mapping current mine activity in the Black Sea.

Baltic Security Cooperation and Integrated Air Defenses.—The Committee continues to support security assistance for the Baltic states of Estonia, Latvia, and Lithuania and believes that the Department of Defense should pursue a dedicated initiative focused on defense and security assistance for the Baltic region. The Committee supports the President’s budget request of \$143,712,500 for the Baltic region, which includes \$45,000,000 for integrated air defenses, and encourages the Department to pursue other long-term regional initiatives. The Committee is concerned, however, about delays in obligating fiscal year 2020 funds added by Congress for Baltic integrated air defenses, in part due to delays in the congressional notification process. Therefore, the Committee directs that

\$45,000,000 requested for integrated air defenses shall not be subject to prior notification requirements. Further, the Committee recommends an additional \$25,000,000 for Baltic security cooperation programs, which also shall not be subject to prior notification requirements. The Committee directs the Secretary of Defense to provide a spend plan for the additional funds within 90 days of enactment of this act to the congressional defense committees. Finally, the Committee directs the Secretary of Defense, within 180 days of enactment of this act, to provide a report to the congressional defense committees outlining the benefits for deterrence and procurement efficiencies of a Baltic Security Assistance Initiative that would incorporate future security assistance for the Baltic region into a 5-year planning process, including efforts such as air defense, maritime situational awareness, ammunition, special forces, and command, control, communications, computers, intelligence, surveillance, and reconnaissance.

OPERATION AND MAINTENANCE, ARMY RESERVE

Appropriations, 2020	\$37,592,000
Budget estimate, 2021	33,399,000
Committee recommendation	33,399,000

The Committee recommends an appropriation of \$33,399,000. This is equal to the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table details the program recommended by the Committee:

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
113	Echelons Above Brigade	17,193	17,193	.....
121	Force Readiness Operations Support	440	440	.....
131	Base Operations Support	15,766	15,766	.....
	Total, Operation and Maintenance, Army Reserve	33,399	33,399	.....

OPERATION AND MAINTENANCE, NAVY RESERVE

Appropriations, 2020	\$23,036,000
Budget estimate, 2021	21,492,000
Committee recommendation	21,492,000

The Committee recommends an appropriation of \$21,492,000. This is equal to the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table details the program recommended by the Committee:

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
1A3A	Intermediate Maintenance	522	522	.....
1A5A	Aircraft Depot Maintenance	11,861	11,861	.....

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
1C6C	Combat Support Forces	9,109	9,109	.....
	Total, Operation and Maintenance, Navy Reserve	21,492	21,492	.....

OPERATION AND MAINTENANCE, MARINE CORPS RESERVE

Appropriations, 2020	\$8,707,000
Budget estimate, 2021	8,707,000
Committee recommendation	8,707,000

The Committee recommends an appropriation of \$8,707,000. This is equal to the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table details the program recommended by the Committee:

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
1A1A	Operational Forces	7,627	7,627	.....
BSS1	Base Operating Support	1,080	1,080	.....
	Total, Operation and Maintenance, Marine Corps Reserve	8,707	8,707	.....

OPERATION AND MAINTENANCE, AIR FORCE RESERVE

Appropriations, 2020	\$29,758,000
Budget estimate, 2021	30,090,000
Committee recommendation	30,090,000

The Committee recommends an appropriation of \$30,090,000. This is equal to the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table details the program recommended by the Committee:

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
011M	Depot Purchase Equipment Maintenance	24,408	24,408	.....
011Z	Base Operating Support	5,682	5,682	.....
	Total, Operation and Maintenance, Air Force Reserve	30,090	30,090	.....

OPERATION AND MAINTENANCE, ARMY NATIONAL GUARD

Appropriations, 2020	\$83,291,000
Budget estimate, 2021	79,792,000
Committee recommendation	79,792,000

The Committee recommends an appropriation of \$79,792,000. This is equal to the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table details the program recommended by the Committee:

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
111	Maneuver Units	25,746	25,746	.....
112	Modular Support Brigades	40	40	.....
113	Echelons Above Brigade	983	983	.....
114	Theater Level Assets	22	22	.....
116	Aviation Assets	20,624	20,624	.....
121	Force Readiness Operations Support	7,914	7,914	.....
131	Base Operations Support	24,417	24,417	.....
432	Servicewide Communications	46	46	.....
	Total, Operation and Maintenance, Army National Guard	79,792	79,792	.....

OPERATION AND MAINTENANCE, AIR NATIONAL GUARD

Appropriations, 2020	\$176,909,000
Budget estimate, 2021	175,642,000
Committee recommendation	175,642,000

The Committee recommends an appropriation of \$175,642,000. This is equal to the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table details the program recommended by the Committee:

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
011G	Mission Support	3,739	3,739	.....
011M	Depot Purchased Equipment Maintenance	61,862	61,862	.....
011W	Contractor Logistics Support and System Support	97,108	97,108	.....
011Z	Base Support	12,933	12,933	.....
	Total, Operation and Maintenance, Air National Guard	175,642	175,642	.....

AFGHANISTAN SECURITY FORCES FUND

Appropriations, 2020	\$4,199,978,000
Budget estimate, 2021	4,015,612,000
Committee recommendation	3,391,019,000

The Committee recommends an appropriation of \$3,391,019,000. This is \$624,593,000 below the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table details the program recommended by the Committee:

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
	Sustainment	1,065,932	1,065,932	.....
	Infrastructure	64,501	37,501	– 27,000
	Unjustified increase over 2020 actual .....	.....	.....	– 27,000
	Equipment and Transportation	47,854	47,854	.....
	Training and Operations	56,780	56,780	.....
	Subtotal: Afghan National Army	1,235,067	1,208,067	– 27,000
	Sustainment	434,500	414,500	– 20,000
	Unjustified increase over 2020 actual .....	.....	.....	– 20,000
	Infrastructure	448	448	.....
	Equipment and Transportation	108,231	78,231	– 30,000
	Unjustified increase over 2020 actual .....	.....	.....	– 30,000
	Training and Operations	58,993	58,993	.....
	Subtotal: Afghan National Police	602,172	552,172	– 50,000
	Sustainment	534,102	534,102	.....
	Infrastructure	9,532	9,532	.....
	Equipment and Transportation	58,487	58,487	.....
	Training and Operations	233,803	233,803	.....
	Subtotal: Afghan Air Force	835,924	835,924	.....
	Sustainment	680,024	555,024	– 125,000
	Unjustified increase over 2020 actual .....	.....	.....	– 125,000
	Infrastructure	2,532	2,532	.....
	Equipment and Transportation	486,808	486,808	.....
	Training and Operations	173,085	173,085	.....
	Subtotal: Afghan Special Security Forces	1,342,449	1,217,449	– 125,000
	Undistributed reduction .....	.....	– 422,593	– 422,593
	Total: Afghanistan Security Forces Fund	4,015,612	3,391,019	– 624,593

Afghanistan Security Forces Fund Budget Submission Requirements.—The Committee appreciates the efforts of the Department of Defense to comply with prior year direction to provide detailed execution information concurrent with the budget request and Financial Activity Plan [FAP] submissions for the Afghanistan Security Forces Fund [ASFF] appropriation. This has enhanced the Committee’s ability to conduct budget analysis and make appropriate funding level recommendations.

The Committee remains concerned, however, that the budget flexibility allowed within the ASFF appropriation has led to a lack of budget discipline that challenges effective congressional and executive branch oversight and risks wasteful spending. For example, the fiscal year 2020 appropriation reduced the ASFF budget by \$604,000,000 from the President’s request and rescinded \$396,000,000 from the fiscal year 2019 ASFF budget. Yet, despite these sizable reductions, the ASFF program was still able to submit a reprogramming request to transfer \$697,500,000 from items submitted in the budget justification to a new effort to procure CH-47 helicopters. The Committee believes that such a transfer indicates that the Department still does not have the necessary fidelity of its annual ASFF budget needs.

Therefore, the Committee continues direction that the Secretary shall provide budget justification materials that include the budget request amount, the appropriated amount, and the actual obligation amount by line item, for the prior 2 fiscal years. In addition, concurrent with the submission of each FAP, the Secretary of Defense shall provide the congressional defense committees with line item detail of planned funding movements within each ASFF sub-activity group using line item titles from the appropriate year’s budget justification submission. Any line item that did not appear in the budget justification submission shall be delineated as a new line item in the line item detail accompanying the FAP. In addition, the Committee recommends a reduction of \$624,593,000 to the ASFF appropriation for unjustified increases over fiscal year 2020 actual obligations.

Afghanistan Security Forces Fund Aviation.—As noted in the report accompanying the Senate version of the Department of Defense Appropriations Act, 2020, the Special Inspector General for Afghanistan Reconstruction [SIGAR] submitted an audit report to Congress outlining concerns that the UH–60 program was successfully meeting fielding dates, but the program was at risk of not having sufficient numbers of trained pilots or maintainers. The SIGAR found that “based on the current UH–60 schedule, it is unlikely that there will be enough pilots trained before all 159 UH–60s are delivered.” The SIGAR noted that rather than scale back or slow UH–60 deliveries, the Combined Security Transition Command-Afghanistan [CSTC–A] had lowered targets for trained pilots from 477 to 320, and the SIGAR found that even the reduced target was unlikely to be met. The report also described numerous problems with the plan to develop Afghan maintenance personnel. The SIGAR’s most troubling finding was that “DOD runs the risk that the aircraft it delivers will sit idle in Afghanistan without enough pilots to fly them.”

In light of the SIGAR’s reporting and the Committee’s long-standing concerns about the ability of the Department of Defense to ensure that costly, maintenance intensive equipment is not provided to partner nations ahead of the utilization and maintenance capacity of those partners, the Committee recommendation eliminated funding for all UH–60 aircraft in fiscal year 2020.

The Committee remains concerned about CSTC–A’s ability to train sufficient numbers of pilots and maintainers to meet the requirements of aircraft being procured, particularly in light of plans to procure yet another helicopter variant beginning in fiscal year 2021, the CH–47. The Department’s plans to reduce troop numbers in Afghanistan will further complicate training and maintenance programs that rely on such forces for protection. Therefore, the Committee continues to urge CSTC–A to tailor CH–47 aircraft procurement to the ability to train pilots and maintainers to utilize them and previously procured aircraft.

COUNTER-ISIS TRAIN AND EQUIP FUND

Appropriations, 2020	\$1,195,000,000
Budget estimate, 2021	845,000,000
Committee recommendation	522,500,000

The Committee recommends an appropriation of \$522,500,000. This is \$322,500,000 below the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table details the program recommended by the Committee:

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
	Iraq	645,000	322,500	– 322,500
	Transfer to OMDW, DSCA for Iraq security cooperation activities			– 322,500
	Syria	200,000	200,000	.....
	Total, Counter-ISIS Train and Equip Fund	845,000	522,500	– 322,500

Counter-ISIS Train and Equip Fund.—The Committee supports the Department of Defense’s efforts to train and equip both the Syrian Democratic Forces and Iraqi security forces through the Counter-ISIS train and equip program [CTEF]. The Committee notes, however, that the program continues to have challenges with program execution. Therefore, the Committee recommends a rescission of \$184,400,000 for unexecuted balances. The Committee also recommends a rescission of \$250,000,000 requested in fiscal year 2020 for non-reimbursable border security support for partner nations, which is not permitted under existing border security authorities.

Finally, the Committee notes the continued importance of the CTEF appropriation for funding certain activities, in particular funding the Peshmerga and the Counter Terrorism Service in Iraq and funding the Syrian Democratic Forces. However, the Committee believes that the need for a separate appropriation for other Iraq support can no longer be justified and supports the transition of traditional capacity building activities to Title 10, United States Code, Section 333 authorized security cooperation programs. Therefore, the Committee recommends a transfer of \$322,500,000 to Operational and Maintenance, Defense-wide, Defense Security Cooperation Agency, for such capacity building activities.

Islamic State of Iraq and Syria Detainees.—The Committee is concerned about the burden on the Syrian Democratic Forces [SDF] of holding thousands of Islamic State of Iraq and Syria [ISIS] detainees. The makeshift detention facilities are overcrowded and vulnerable to the types of ISIS attacks that led to the rise of the organization in 2012. The Committee supports efforts of the Department of Defense and international partners to fortify and construct detention facilities to alleviate overcrowding, enhance humane detention, and ensure the security of dangerous detainees. The Committee directs the Department of Defense to notify the Committee 30 days prior to obligation of funds for detention facility construction and prohibits the use of Counter-ISIS Train and Equip Funds for any other construction activity. Moreover, the Committee directs the Department of Defense to engage with the SDF on ensuring that detainees are afforded all protections due under the Geneva Conventions.

PROCUREMENT

The Committee recommends \$5,873,893,000 for the procurement accounts. The Overseas Contingency Operations funding supports our forces engaged in Operation Enduring Freedom and other contingency operations. The Committee recommends funding to replace combat losses and equipment left behind in theater, augment and upgrade equipment for deploying units, sustain munitions and other war consumables, and reset the units returning home to an equipment-ready status. Funding adjustments have been made in instances where the requirement was poorly defined, funding was requested ahead of need or program execution has been delayed.

AIRCRAFT PROCUREMENT, ARMY

Appropriations, 2020	\$531,541,000
Budget estimate, 2021	461,080,000
Committee recommendation	455,112,000

The Committee recommends an appropriation of \$455,112,000. This is \$5,968,000 below the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table details the program recommended by the Committee:

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
9	AH-64 Apache Block IIIA New Build	69,154	69,154	.....
14	CH-47 Helicopter	50,472	50,472	.....
17	MQ-1 Payload [MIP]	5,968	.....	- 5,968
	Restoring acquisition accountability: Acquisition strategy .....	.....	.....	- 5,968
20	Multi Sensor ABN Recon [MIP]	122,520	122,520	.....
25	EMARSS SEMA Mods [MIP]	26,460	26,460	.....
30	Degraded Visual Environment	1,916	1,916	.....
37	CMWS	149,162	149,162	.....
38	Common Infrared Countermeasures (CIRCM)	32,400	32,400	.....
41	Aircrew Integrated Systems	3,028	3,028	.....
	Total, Aircraft Procurement, Army	461,080	455,112	- 5,968

MISSILE PROCUREMENT, ARMY

Appropriations, 2020	\$1,423,589,000
Budget estimate, 2021	881,592,000
Committee recommendation	796,599,000

The Committee recommends an appropriation of \$796,599,000. This is \$84,993,000 below the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table details the program recommended by the Committee:

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
2	M-SHORAD—Procurement	158,300	158,300	.....
3	MSE Missile	176,585	176,585	.....

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
6	Hellfire Sys Summary	236,265	236,265	.....
11	Guided MLRS Rocket [GMLRS]	127,015	127,015	.....
15	LETHAL MINIATURE AERIAL MISSILE SYSTEM (LMAMS)	84,993	.....	— 84,993
	Restoring acquisition accountability: Acquisition strategy .....	.....	.....	— 84,993
17	ATACMS MODS	78,434	78,434	.....
22	MLRS Mods	20,000	20,000	.....
	Total, Missile Procurement, Army	881,592	796,599	— 84,993

**PROCUREMENT OF WEAPONS AND TRACKED COMBAT VEHICLES,
ARMY**

Appropriations, 2020	\$346,306,000
Budget estimate, 2021	15,225,000
Committee recommendation	15,225,000

The Committee recommends an appropriation of \$15,225,000. This is equal to the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table details the program recommended by the Committee:

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
16	MULTI-ROLE ANTI-ARMOR ANTI-PERSONNEL WEAPONS	4,765	4,765	.....
18	Mortar Systems	10,460	10,460	.....
	Total, Procurement of Weapons and Tracked Combat Vehicles, Army	15,225	15,225	.....

PROCUREMENT OF AMMUNITION, ARMY

Appropriations, 2020	\$148,682,000
Budget estimate, 2021	110,668,000
Committee recommendation	103,875,000

The Committee recommends an appropriation of \$103,875,000. This is \$6,793,000 below the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table details the program recommended by the Committee:

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
1	CTG, 5.56MM, All Types	567	567	.....
2	CTG, 7.62MM, All Types	40	40	.....
4	CTG, Handgun, All Types	17	17	.....
5	CTG, .50 Cal, All Types	189	189	.....
8	CTG, 30mm, All Types	24,900	24,900	.....
16	Proj 155mm Extended Range M982	29,213	22,420	— 6,793
	Maintain program affordability: E80103 unit cost savings .....	.....	.....	— 6,793
17	Artillery Propellants, Fuzes and Primers, All	21,675	21,675	.....

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
20	Shoulder Launched Munitions, All Types	176	176	.....
21	Rocket, Hydra 70, All Types	33,880	33,880	.....
29	Items Less Than \$5 Million (AMMO)	11	11	.....
	Total, Procurement of Ammunition, Army	110,668	103,875	-6,793

OTHER PROCUREMENT, ARMY

Appropriations, 2020	\$1,080,504,000
Budget estimate, 2021	924,077,000
Committee recommendation	919,917,000

The Committee recommends an appropriation of \$919,917,000. This is \$4,160,000 below the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table details the program recommended by the Committee:

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
13	Family of Heavy Tactical Vehicles (FHTV)	6,500	6,500	.....
14	PLS ESP	15,163	13,375	-1,788
	Maintain program affordability: Anticipated unit cost savings			-1,788
17	Tactical Wheeled Vehicle Protection Kits	27,066	27,066	.....
30	Transportable Tactical Command Communications	2,700	3,700	+1,000
	Program increase: AFRICOM			+1,000
32	Assured Positioning, Navigation and Timing	12,566	12,566	.....
33	SMART-T (SPACE)	289	289	.....
34	Global Brdcast Svc—GBS	319	319	.....
37	Handheld Manpack Small Form Fit (HMS)		1,500	+1,500
	Program increase: AFRICOM combat communications			+1,500
45	Family of Med Comm for Combat Casualty Care	1,257	1,257	.....
48	CI Automation Architecture [MIP]	1,230	1,230	.....
52	Communications Security (COMSEC)	128	128	.....
57	Base Support Communications		1,000	+1,000
	Program increase: AFRICOM long haul communications			+1,000
58	Information Systems	15,277	15,277	.....
62	Installation Info Infrastructure Mod Program	74,004	74,004	.....
68	DCGS-A [MIP]	47,709	47,709	.....
70	TROJAN [MIP]	1,766	1,766	.....
71	Mod of In-Svc Equip (INTEL SPT) [MIP]	61,450	61,450	.....
73	Biometric Tactical Collection Devices [MIP]	12,337	12,337	.....
80	Family of Persistent Surveillance Cap. [MIP]	44,293	42,043	-2,250
	Restoring acquisition accountability: Unjustified baseline avionics kit cost growth			-2,250
81	Counterintelligence/Security Countermeasures	49,100	32,726	-16,374
	Improving funds management: Reduce prior year carry-over			-16,374
83	Sentinel Mods	33,496	33,496	.....
84	Night Vision Devices	643	643	.....
87	RADIATION MONITORING SYSTEMS	11	11	.....
88	Indirect Fire Protection Family of Systems	37,000	41,000	+4,000
	Program increase: AFRICOM			+4,000
94	Computer Ballistics: LHMBBC XM32	280	280	.....
95	Mortar Fire Control System	13,672	13,672	.....
100	AIR & MSL Defense Planning & Control Sys	15,143	15,143	.....
109	Army Training Modernization	4,688	4,688	.....
110	Automated Data Processing Equip	16,552	16,552	.....

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
121	Family of Non-Lethal Equipment [FNLE]	25,480	25,480	.....
122	Base Defense Systems [BDS]	98,960	98,960	.....
123	CBRN Defense	18,887	18,887	.....
125	Tactical Bridging	50,400	50,400	.....
137	Render Safe Sets kits Outfits	84,000	84,000	.....
140	Heaters and ECU's	370	370	.....
142	Personnel Recovery Support System [PRSS]	3,721	3,721	.....
145	Force Provider	56,400	56,400	.....
146	Field Feeding Equipment	2,279	2,279	.....
147	Cargo Aerial Del & Personnel Parachute System	2,040	2,040	.....
150	Distribution Systems, Petroleum & Water	4,374	4,374	.....
151	Combat Support Medical	6,390	6,390	.....
152	Mobile Maintenance Equipment Systems	7,769	7,769	.....
153	Items Less Than \$5.0M (Maint Eq)	184	184	.....
156	Loaders	3,190	3,190	.....
157	Hydraulic Excavator	7,600	7,600	.....
158	Tractor, Full Tracked	7,450	7,450	.....
160	High Mobility Engineer Excavator [HMEE]	3,703	3,703	.....
162	Const Equip ESP	657	657	.....
167	Generators and Associated Equip	106	106	.....
169	Family of Forklifts	1,885	1,885	.....
180	Rapid Equipping Soldier Support Equipment	8,500	8,500	.....
181	Physical Security Systems (OPA3)	3,248	12,000	+ 8,752
	Restoring acquisition accountability: Requirement no longer valid .....	.....	.....	- 3,248
	Program increase: AFRICOM force protection upgrades .....	.....	.....	+ 12,000
185	BUILDING, PRE-FAB, RELOCATABLE	31,845	31,845	.....
	Total, Other Procurement, Army	924,077	919,917	- 4,160

AIRCRAFT PROCUREMENT, NAVY

Appropriations, 2020	\$95,153,000
Budget estimate, 2021	33,241,000
Committee recommendation	32,905,000

The Committee recommends an appropriation of \$32,905,000. This is \$336,000 below the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table details the program recommended by the Committee:

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
24	STUASLO UAV	7,921	7,585	- 336
	Maintain program affordability: USMC air vehicle unit cost adjustment .....	.....	.....	- 336
53	Common ECM Equipment	3,474	3,474	.....
55	Common Defensive Weapon System	3,339	3,339	.....
64	QRC	18,507	18,507	.....
	Total, Aircraft Procurement, Navy	33,241	32,905	- 336

WEAPONS PROCUREMENT, NAVY

Appropriations, 2020	\$116,429,000
Budget estimate, 2021	5,572,000
Committee recommendation	5,572,000

The Committee recommends an appropriation of \$5,572,000. This is equal to the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table details the program recommended by the Committee:

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
12	Hellfire	5,572	5,572	.....
	Total, Weapons Procurement, Navy	5,572	5,572	.....

PROCUREMENT OF AMMUNITION, NAVY AND MARINE CORPS

Appropriations, 2020	\$204,814,000
Budget estimate, 2021	95,942,000
Committee recommendation	95,942,000

The Committee recommends an appropriation of \$95,942,000. This is equal to the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table details the program recommended by the Committee:

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
1	General Purpose Bombs	8,068	8,068	.....
2	JDAM	15,529	15,529	.....
3	Airborne Rockets, All Types	23,000	23,000	.....
4	Machine Gun Ammunition	22,600	22,600	.....
6	Cartridges & Cart Actuated Devices	3,927	3,927	.....
7	Air Expendable Countermeasures	15,978	15,978	.....
8	JATOS	2,100	2,100	.....
11	Other Ship Gun Ammunition	2,611	2,611	.....
12	Small Arms & Landing Party Ammo	1,624	1,624	.....
13	Pyrotechnic and Demolition	505	505	.....
	Total, Procurement of Ammunition, Navy and Marine Corps	95,942	95,942	.....

OTHER PROCUREMENT, NAVY

Appropriations, 2020	\$351,250,000
Budget estimate, 2021	343,526,000
Committee recommendation	343,526,000

The Committee recommends an appropriation of \$343,526,000. This is equal to the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table details the program recommended by the Committee:

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
28	Standard Boats	19,104	19,104	.....
35	Small & Medium UUV	2,946	2,946	.....
43	Fixed Surveillance System	213,000	213,000	.....
92	Sonobuoys—All Types	26,196	26,196	.....
95	Aircraft Support Equipment	60,217	60,217	.....
110	Explosive Ordnance Disposal Equip	2,124	2,124	.....
115	Passenger Carrying Vehicles	177	177	.....
116	General Purpose Trucks	416	416	.....
118	Fire Fighting Equipment	801	801	.....
125	First Destination Transportation	520	520	.....
128	Training and Education Equipment	11,500	11,500	.....
130	Medical Support Equipment	3,525	3,525	.....
136	Physical Security Equipment	3,000	3,000	.....
	Total, Other Procurement, Navy	343,526	343,526	.....

PROCUREMENT, MARINE CORPS

Appropriations, 2020	\$20,589,000
Budget estimate, 2021	47,963,000
Committee recommendation	47,963,000

The Committee recommends an appropriation of \$47,963,000. This is equal to the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table details the program recommended by the Committee:

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
12	Guided MLRS Rocket [GMLRS]	17,456	17,456	.....
15	Modification Kits	4,200	4,200	.....
22	Intelligence Support Equipment	10,124	10,124	.....
38	Motor Transport Modifications	16,183	16,183	.....
	Total, Procurement, Marine Corps	47,963	47,963	.....

AIRCRAFT PROCUREMENT, AIR FORCE

Appropriations, 2020	\$851,310,000
Budget estimate, 2021	569,155,000
Committee recommendation	569,038,000

The Committee recommends an appropriation of \$569,038,000. This is \$117,000 below the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table details the program recommended by the Committee:

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
13	Combat Rescue Helicopter	174,000	174,000	.....
20	MQ-9	142,490	157,300	+ 14,810

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
	Restoring acquisition accountability: Shutdown costs ahead of need			- 75,990
	Maintain program affordability: Unjustified ECP request			- 17,200
	Program increase: Additional aircraft to sustain production line			+ 108,000
21	RQ-20B Puma	13,770	13,770	
26	Large Aircraft Infrared Countermeasures	57,521	46,321	- 11,200
	Improving funds management: C-130J carryover			- 11,200
46	U-2 Mods	9,600	9,600	
55	Compass Call	12,800	11,300	- 1,500
	Improving funds management: CLEAVER installations ahead of need			- 1,500
66	HC/MC-130 Modifications	58,020	55,793	- 2,227
	Restoring acquisition accountability: Situational awareness unit cost growth			- 2,227
69	MQ-9 UAS Payloads	46,100	46,100	
70	CV-22 Mods	6,290	6,290	
71	Initial Spares/Repair Parts	10,700	10,700	
72	MQ-9	12,250	12,250	
73	Aircraft Replacement Support Equip	25,614	25,614	
	Total, Aircraft Procurement, Air Force	569,155	569,038	- 117

MISSILE PROCUREMENT, AIR FORCE

Appropriations, 2020	\$201,671,000
Budget estimate, 2021	223,772,000
Committee recommendation	223,772,000

The Committee recommends an appropriation of \$223,772,000. This is equal to the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table details the program recommended by the Committee:

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
4	Joint Air-Surface Standoff Missile	30,000	30,000	
8	Predator Hellfire Missile	143,420	143,420	
9	Small Diameter Bomb	50,352	50,352	
	Total, Missile Procurement, Air Force	223,772	223,772	

PROCUREMENT OF AMMUNITION, AIR FORCE

Appropriations, 2020	\$934,758,000
Budget estimate, 2021	802,455,000
Committee recommendation	785,617,000

The Committee recommends an appropriation of \$785,617,000. This is \$16,838,000 below the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table details the program recommended by the Committee:

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
1	Rockets	19,489	19,489	.....
2	Cartridges	40,434	40,434	.....
4	General Purpose Bombs	369,566	369,566	.....
6	Joint Direct Attack Munition	237,723	237,723	.....
15	Flares	21,171	21,171	.....
16	Fuzes	107,855	91,017	- 16,838
	Restoring acquisition accountability: FMU-139D/B excess .....	.....	.....	- 16,838
17	Small Arms	6,217	6,217	.....
	Total, Procurement of Ammunition, Air Force	802,455	785,617	- 16,838

OTHER PROCUREMENT, AIR FORCE

Appropriations, 2020	\$3,748,801,000
Budget estimate, 2021	355,339,000
Committee recommendation	355,339,000

The Committee recommends an appropriation of \$355,339,000. This is equal to the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table details the program recommended by the Committee:

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
1	Passenger Carrying Vehicles	1,302	1,302	.....
2	Medium Tactical Vehicle	3,400	3,400	.....
4	Cargo and Utility Vehicles	12,475	12,475	.....
5	Joint Light Tactical Vehicle	26,150	26,150	.....
7	Special Purpose Vehicles	51,254	51,254	.....
8	Fire Fighting/Crash Rescue Vehicles	24,903	24,903	.....
9	Materials Handling Vehicles	14,167	14,167	.....
10	Runway Snow Remov and Cleaning Equ	5,759	5,759	.....
11	Base Maintenance Support Vehicles	20,653	20,653	.....
26	General Information Technology	5,100	5,100	.....
30	Air Force Physical Security System	56,496	56,496	.....
49	Base Comm Infrastructure	30,717	30,717	.....
55	Engineering and EOD Equipment	13,172	13,172	.....
56	Mobility Equipment	33,694	33,694	.....
57	Fuels Support Equipment (FSE)	1,777	1,777	.....
58	Base Maintenance and Support Equipment	31,620	31,620	.....
61	DCGS-AF	18,700	18,700	.....
65	Spares and Repair Parts	4,000	4,000	.....
	Total, Other Procurement, Air Force	355,339	355,339	.....

PROCUREMENT, DEFENSE-WIDE

Appropriations, 2020	\$438,064,000
Budget estimate, 2021	258,491,000
Committee recommendation	273,491,000

The Committee recommends an appropriation of \$273,491,000. This is \$15,000,000 above the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table details the program recommended by the Committee:

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
16	Defense Information System Network	6,120	6,120	.....
30	Counter IED & Improvised Threat Technologies	2,540	2,540	.....
999	Classified Programs	3,500	3,500	.....
56	Manned ISR	5,000	5,000	.....
57	MC-12	5,000	5,000	.....
60	Unmanned ISR	8,207	8,207	.....
70	Ordnance Items <\$5M	105,355	105,355	.....
71	Intelligence Systems	16,234	16,234	.....
73	Other Items <\$5M	984	984	.....
76	Tactical Vehicles	2,990	2,990	.....
77	Warrior Systems <\$5M	32,573	47,573	+ 15,000
	Program increase: SOF Tactical Communications			+ 15,000
78	Combat Mission Requirements	10,000	10,000	.....
80	Operational Enhancements Intelligence	6,724	6,724	.....
81	Operational Enhancements	53,264	53,264	.....
	Total, Procurement, Defense-Wide	258,491	273,491	+ 15,000

NATIONAL GUARD AND RESERVE EQUIPMENT

Appropriations, 2020	\$1,300,000,000
Budget estimate, 2021	
Committee recommendation	850,000,000

The Committee recommends an appropriation of \$850,000,000. This is \$850,000,000 above the budget estimate.

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

COMMITTEE RECOMMENDED PROGRAM

The following table details the program recommended by the Committee:

[In thousands of dollars]

Item	2021 budget estimate	Committee recommendation	Change from budget estimate
NATIONAL GUARD AND RESERVE EQUIPMENT			
RESERVE EQUIPMENT:			
ARMY RESERVE:			
Program increase: Miscellaneous equipment		127,500	+ 127,500
NAVY RESERVE:			
Program increase: Miscellaneous equipment		42,500	+ 42,500
MARINE CORPS RESERVE:			
Program increase: Miscellaneous equipment		8,500	+ 8,500
AIR FORCE RESERVE:			
Program increase: Miscellaneous equipment		127,500	+ 127,500

[In thousands of dollars]

Item	2021 budget estimate	Committee recommendation	Change from budget estimate
TOTAL, RESERVE EQUIPMENT	306,000	+ 306,000
NATIONAL GUARD EQUIPMENT:			
ARMY NATIONAL GUARD:			
Program increase: Miscellaneous equipment	272,000	+ 272,000
AIR NATIONAL GUARD:			
Program increase: Miscellaneous equipment	272,000	+ 272,000
TOTAL, NATIONAL GUARD EQUIPMENT	544,000	+ 544,000
TOTAL, NATIONAL GUARD AND RESERVE EQUIPMENT	850,000	+ 850,000

High-Priority Items.—The Committee directs that the National Guard and Reserve Equipment account shall be executed by the Chiefs of the National Guard and reserve components with priority consideration given to the following items: Acoustic Hailing Devices; Cold Weather and Mountaineering Gear and Equipment, including Small Unit Support Vehicles; Counter-UAS Systems; Crashworthy, Ballistically Tolerant Auxiliary Fuel Systems; Detect and Avoid Systems for MQ-9 Aircraft; HMMWV Modernization; MQ-9 Deployable Launch & Recovery Element Mission Support Kits; Solar Mobile Power Systems; KC-135 Aircraft Forward Area Refueling/Defueling Stations; Radiological isotope identification/detection equipment; Modular Small Arms Ranges and Simulation; ALR-69A Digital Radar Warning Receivers; and AN/PDR-75A Radiac sets.

RESEARCH, DEVELOPMENT, TEST AND EVALUATION

The Committee recommends \$295,841,000 for research, development, test and evaluation.

RESEARCH, DEVELOPMENT, TEST AND EVALUATION, ARMY

Appropriations, 2020	\$147,304,000
Budget estimate, 2021	182,824,000
Committee recommendation	148,157,000

The Committee recommends an appropriation of \$148,157,000. This is \$34,667,000 below the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table details the program recommended by the Committee:

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
16	Next Generation Combat Vehicle Technology	2,000	2,000	.....
80	Air and Missile Defense Systems Engineering	500	500	.....
114	Integrated Base Defense (Budget Activity 4)	2,020	2,020	.....
131	Air Defense Command, Control and Intelligence—Eng Dev	27,000	27,000	.....
159	Common Infrared Countermeasures (CIRCM)	2,300	2,300	.....
166	Aircraft Survivability Development	64,625	29,958	– 34,667
	Restoring acquisition accountability: LIMWS development engineering excess to need .....	.....	.....	– 34,667

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
183	Electronic Warfare Development	3,900	3,900	.....
198	Exploitation of Foreign Items	1,000	1,000	.....
209	CounterIntel and Human Intel Modernization	4,137	4,137	.....
239	Other Missile Product Improvement Programs	2,300	2,300	.....
248	Security and Intelligence Activities	23,367	23,367	.....
257	Tactical Unmanned Aerial Vehicles	34,100	34,100	.....
258	Airborne Reconnaissance Systems	15,575	15,575	.....
	Total, Research, Development, Test and Evaluation, Army	182,824	148,157	- 34,667

RESEARCH, DEVELOPMENT, TEST AND EVALUATION, NAVY

Appropriations, 2020	\$164,410,000
Budget estimate, 2021	59,562,000
Committee recommendation	59,562,000

The Committee recommends an appropriation of \$59,562,000. This is equal to the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table details the program recommended by the Committee:

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
39	RETRACT LARCH	36,500	36,500	.....
58	Joint Service Explosive Ordnance Development	14,461	14,461	.....
63	CHALK CORAL	3,000	3,000	.....
71	Land Attack Technology	1,457	1,457	.....
142	Ship Self Defense (Detect & Control)	1,144	1,144	.....
229	USMC Intelligence/Electronic Warfare Systems (MIP)	3,000	3,000	.....
	Total, Research, Development, Test and Evaluation, Navy	59,562	59,562	.....

RESEARCH, DEVELOPMENT, TEST AND EVALUATION, AIR FORCE

Appropriations, 2020	\$128,248,000
Budget estimate, 2021	5,304,000
Committee recommendation	5,304,000

The Committee recommends an appropriation of \$5,304,000. This is equal to the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table details the program recommended by the Committee:

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
185	Joint Counter RCIED Electronic Warfare	4,080	4,080	.....
228	Intel Data Applications	1,224	1,224	.....

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
	Total, Research, Development, Test & Evaluation, Air Force	5,304	5,304	.....

RESEARCH, DEVELOPMENT, TEST AND EVALUATION, DEFENSE-WIDE

Appropriations, 2020	\$394,260,000
Budget estimate, 2021	82,818,000
Committee recommendation	82,818,000

The Committee recommends an appropriation of \$82,818,000. This is equal to the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table details the program recommended by the Committee:

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
10	Counter Improvised-Threat Advanced Studies	3,699	3,699	.....
26	Combating Terrorism Technology Support	19,288	19,288	.....
28	Counter Improvised-Threat Simulation	3,861	3,861	.....
97	Counter Improvised-Threat Demonstration, Prototype Development, and Testing	19,931	19,931	.....
260	Operational Enhancements	1,186	1,186	.....
261	Warrior Systems	5,796	5,796	.....
263	Unmanned ISR	5,000	5,000	.....
999	Classified Programs	24,057	24,057	.....
	Total, Research, Development, Test and Evaluation, Defense-Wide	82,818	82,818	.....

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

Appropriations, 2020	\$20,100,000
Budget estimate, 2021	20,090,000
Committee recommendation	20,090,000

The Committee recommends an appropriation of \$20,090,000. This is equal to the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table details the programs recommended by the Committee:

[In thousands of dollars]

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
55	Supply Management	20,090	20,090	.....
	Total, Defense Working Capital Fund, Army	20,090	20,090	.....
	Grand Total, Defense Working Capital Funds	20,090	20,090	.....

OTHER DEPARTMENT OF DEFENSE PROGRAMS

DEFENSE HEALTH PROGRAM

Appropriations, 2020	\$347,746,000
Budget estimate, 2021	365,098,000
Committee recommendation	365,098,000

The Committee recommends an appropriation of \$365,098,000. This is equal to the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table details the program recommended by the Committee:

(In thousands of dollars)

Line	Item	2021 budget estimate	Committee recommendation	Change from budget estimate
	Operation and Maintenance			
	In-House Care	65,072	65,072	
	Private Sector Care	296,828	296,828	
	Consolidated Health Care	3,198	3,198	
	Total, Defense Health Program	365,098	365,098	

DRUG INTERDICTION AND COUNTER-DRUG ACTIVITIES, DEFENSE

Appropriations, 2020	\$153,100,000
Budget estimate, 2021	
Committee recommendation	

The Committee recommends no funding for Drug Interdiction and Counter-Drug Activities, Defense.

OFFICE OF THE INSPECTOR GENERAL

Appropriations, 2020	\$24,254,000
Budget estimate, 2021	24,069,000
Committee recommendation	24,069,000

The Committee recommends an appropriation of \$24,069,000. This is equal to the budget estimate.

GENERAL PROVISIONS—THIS TITLE

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

SEC. 9001. *Funds in Addition to Base.*—Retains and modifies a provision carried in previous years.

SEC. 9002. *Special Transfer Authority.*—Retains a provision carried in previous years.

SEC. 9003. *Supervision and Administration Costs.*—Retains a provision carried in previous years.

SEC. 9004. *Vehicle Procurement.*—Retains a provision carried in previous years.

SEC. 9005. *Commanders' Emergency Response Program.*—Retains and modifies a provision carried in previous years.

SEC. 9006. *Coalition Lift and Sustainment*.—Retains a provision carried in previous years.

SEC. 9007. *Permanent Military Installations*.—Retains a provision carried in previous years.

SEC. 9008. *U.N. Convention Against Torture*.—Retains a provision carried in previous years.

SEC. 9009. *Afghanistan Resource Oversight Council*.—Retains a provision carried in previous years.

SEC. 9010. *Investment Unit Cost*.—Retains a provision carried in previous years.

SEC. 9011. *O&M Readiness Funds and Transfer Authority*.—Retains and modifies a provision which provides for O&M readiness funds and transfer authority.

SEC. 9012. *Ukraine Security Assistance Initiative*.—Retains a provision carried in previous years.

SEC. 9013. *Ukraine Replacement of Funds*.—Retains a provision carried in previous years.

SEC. 9014. *Counterterrorism Partnerships Fund Excess Equipment*.—Retains a provision carried in previous years.

SEC. 9015. *C-130 Cargo Aircraft Transfers*.—Retains a provision carried in previous years.

SEC. 9016. *Afghanistan Security Forces Fund Certification*.—Retains provision carried in previous years.

SEC. 9017. *Rescissions*.—The Committee recommends a general provision rescinding funds from prior years as displayed below:

	Amount
2019 Appropriations	
Aircraft Procurement, Air Force:	
B-52 infrared threat defense UON	\$16,400
2020 Appropriations	
Operation and Maintenance: DSCA Security Cooperation	50,000
Operation and Maintenance: Coalition Support Funds	45,000
Afghanistan Security Forces Fund	1,000,000
Counter-ISIS Train and Equip Fund	434,400
Procurement of Weapons and Tracked Combat Vehicles, Army:	
Armored Multi Purpose Vehicle (AMPV)	100,000
Procurement of Ammunition, Air Forces:	
Fuzes—FMU-139 D/B	49,679
Research, Development, Test and Evaluation, Army:	
Soldier support and survivability	2,878
Research, Development, Test and Evaluation, Defense-Wide:	
Combating terrorism technology support	3,500
Counter improvised-threat demonstration, prototype development and testing	14,330

SEC. 9018. *Security Cooperation*.—Inserts a new provision regarding the use of funds for security cooperation programs for foreign security forces.

SEC. 9019. *Coalition Readiness Support*.—Inserts a new provision regarding the provision of training, supplies and equipment to foreign security forces.

SEC. 9020. *Border Security*.—Inserts a new provision regarding border security funding for Jordan, Lebanon, Egypt, Tunisia and Oman.

SEC. 9021. *Emergency Designation*.—Retains a provision carried in previous years.

COMPLIANCE WITH PARAGRAPH 7(c), RULE XXVI OF THE
STANDING RULES OF THE SENATE

Pursuant to paragraph 7(c) of rule XXVI, on _____, 2020, the Committee ordered favorably reported an original bill (S. 0000) making appropriations for the Department of Defense for the fiscal year ending September 30, 2021, and for other purposes, provided that the bill be subject to amendment and that the bill be consistent with its budget allocation, and provided that the Chairman of the Committee or his designee be authorized to offer the substance of the original bill as a Committee amendment in the nature of a substitute to the House companion measure, by a recorded vote of 00-00, a quorum being present. The vote was as follows:

COMPLIANCE WITH PARAGRAPH 12, RULE XXVI OF THE
STANDING RULES OF THE SENATE

Paragraph 12 of rule XXVI requires that Committee reports on a bill or joint resolution repealing or amending any statute or part of any statute include “(a) the text of the statute or part thereof which is proposed to be repealed; and (b) a comparative print of that part of the bill or joint resolution making the amendment and of the statute or part thereof proposed to be amended, showing by stricken-through type and italics, parallel columns, or other appropriate typographical devices the omissions and insertions which would be made by the bill or joint resolution if enacted in the form recommended by the Committee.”

The Committee bill as recommended contains no such provisions.

COMPARATIVE STATEMENT OF NEW BUDGET (OBLIGATIONAL) AUTHORITY FOR FISCAL YEAR 2020 AND BUDGET ESTIMATES AND AMOUNTS RECOMMENDED IN THE BILL FOR FISCAL YEAR 2021
 (In thousands of dollars)

Item	2020 appropriation	Budget estimate	Committee recommendation	Senate Committee recommendation compared with (+ or -)	
				2020 appropriation	Budget estimate
TITLE I					
MILITARY PERSONNEL					
Military Personnel, Army	42,746,972	45,087,813	44,938,027	+ 2,191,055	- 149,786
Military Personnel, Navy	31,710,431	33,892,369	33,737,865	+ 2,027,434	- 154,504
Military Personnel, Marine Corps	14,098,666	14,840,871	14,582,146	+ 483,480	- 258,725
Military Personnel, Air Force	31,239,149	32,901,670	32,850,910	+ 1,611,761	- 50,760
Reserve Personnel, Army	4,922,087	5,106,956	5,062,551	+ 140,464	- 44,405
Reserve Personnel, Navy	2,115,997	2,240,710	2,192,088	+ 76,091	- 48,622
Reserve Personnel, Marine Corps	833,604	888,694	829,491	- 4,113	- 39,203
Reserve Personnel, Air Force	2,014,190	2,207,823	2,193,170	+ 178,980	- 14,653
National Guard Personnel, Army	8,704,320	8,830,111	8,702,813	- 1,507	- 127,298
National Guard Personnel, Air Force	4,060,651	4,547,087	4,527,419	+ 466,768	- 19,668
Total, title I, Military Personnel	142,446,067	150,524,104	149,616,480	+ 7,170,413	- 907,624
TITLE II					
OPERATION AND MAINTENANCE					
Operation and Maintenance, Army	39,597,083	40,312,968	39,675,024	+ 77,941	- 637,944
Operation and Maintenance, Navy	47,622,510	49,692,742	49,091,602	+ 1,469,092	- 601,140
Operation and Maintenance, Marine Corps	7,868,468	7,328,607	7,185,844	- 682,624	- 142,763
Operation and Maintenance, Air Force	42,736,365	34,750,597	34,539,699	- 8,196,666	- 210,898
Operation and Maintenance, Space Force	40,000	2,531,294	2,502,294	+ 2,462,294	- 29,000
Operation and Maintenance, Defense-Wide	37,491,073	38,649,079	38,584,918	+ 1,093,845	- 64,161
Operation and Maintenance, Army Reserve	2,984,494	2,934,717	2,885,717	- 98,777	- 49,000
Operation and Maintenance, Navy Reserve	1,102,616	1,127,046	1,103,046	+ 430	- 24,000
Operation and Maintenance, Marine Corps Reserve	289,076	284,656	281,656	- 7,420	- 3,000
Operation and Maintenance, Air Force Reserve	3,227,318	3,350,284	3,251,284	+ 23,966	- 99,000
Operation and Maintenance, Army National Guard	7,461,947	7,420,014	7,349,548	- 112,399	- 70,466

COMPARATIVE STATEMENT OF NEW BUDGET (OBLIGATIONAL) AUTHORITY FOR FISCAL YEAR 2020 AND BUDGET ESTIMATES AND AMOUNTS RECOMMENDED IN THE BILL
FOR FISCAL YEAR 2021—Continued
(In thousands of dollars)

Item	2020 appropriation	Budget estimate	Committee recommendation	Senate Committee recommendation compared with (+ or -)	
				2020 appropriation	Budget estimate
Operation and Maintenance, Air National Guard	6,655,292	6,753,642	6,784,996	+ 129,704	+ 31,354
United States Court of Appeals for the Armed Forces	14,771	15,211	15,211	+ 440	.....
Environmental Restoration, Army	251,700	207,518	207,518	- 44,182	.....
Environmental Restoration, Navy	385,000	335,932	352,932	- 32,068	+ 17,000
Environmental Restoration, Air Force	485,000	303,926	303,926	- 181,074	.....
Environmental Restoration, Defense-Wide	19,002	9,105	9,105	- 9,897	.....
Environmental Restoration, Formerly Used Defense Sites	275,000	216,587	216,587	- 58,413	.....
Overseas Humanitarian, Disaster, and Civic Aid	135,000	109,900	109,900	- 25,100	.....
Cooperative Threat Reduction Account	373,700	238,490	238,490	- 135,210	.....
Department of Defense Acquisition Workforce Development Account	400,000	58,181	108,181	- 291,819	+ 50,000
Total, title II, Operation and Maintenance	199,415,415	196,630,496	194,797,478	- 4,617,937	- 1,833,018
TITLE III					
PROCUREMENT					
Aircraft Procurement, Army	3,771,329	3,074,594	3,233,194	- 538,135	+ 158,600
Missile Procurement, Army	2,995,673	3,491,507	3,190,699	+ 195,026	- 300,808
Procurement of Weapons and Tracked Combat Vehicles, Army	4,663,597	3,696,740	3,825,082	- 838,515	+ 128,342
Procurement of Ammunition, Army	2,578,575	2,777,716	2,827,369	+ 248,794	+ 49,653
Other Procurement, Army	7,581,524	8,625,206	8,647,745	+ 1,066,221	+ 22,539
Aircraft Procurement, Navy	19,605,513	17,127,378	18,795,890	- 809,623	+ 1,668,512
Weapons Procurement, Navy	4,017,470	4,884,995	4,626,495	+ 609,025	- 258,500
Procurement of Ammunition, Navy and Marine Corps	843,401	883,602	819,809	- 23,592	- 63,793
Shipbuilding and Conversion, Navy	23,975,378	19,902,757	21,346,405	- 2,628,973	+ 1,443,648
Other Procurement, Navy	10,075,257	10,948,518	10,889,894	+ 814,637	- 58,624
Procurement, Marine Corps	2,898,422	2,903,976	2,722,853	- 175,569	- 181,123
Aircraft Procurement, Air Force	17,512,361	17,908,145	18,360,141	+ 847,780	+ 451,996
Missile Procurement, Air Force	2,575,890	2,396,417	2,281,817	- 294,073	- 114,600
Space Procurement, Air Force	2,353,383	.....	.....	- 2,353,383	.....

Procurement of Ammunition, Air Force	1,625,661	596,338	562,844	-1,062,817	-33,494
Other Procurement, Air Force	21,410,021	23,695,720	23,225,804	+1,815,783	-469,916
Procurement, Space Force .....	.....	2,446,064	2,227,179	+2,227,179	-218,885
Procurement, Defense-Wide	5,332,147	5,324,487	5,556,960	+224,813	+232,473
Defense Production Act Purchases	64,393	181,931	164,639	+100,246	-17,292
Total, title III, Procurement	133,879,995	130,866,091	133,304,819	-575,176	+2,438,728
TITLE IV					
RESEARCH, DEVELOPMENT, TEST AND EVALUATION					
Research, Development, Test and Evaluation, Army	12,543,435	12,587,343	12,812,686	+269,251	+225,343
Research, Development, Test and Evaluation, Navy	20,155,115	21,427,048	19,758,538	-396,577	-1,668,510
Research, Development, Test and Evaluation, Air Force	45,566,955	37,391,826	35,695,255	-9,871,700	-1,696,571
Research, Development, Test and Evaluation, Space Force .....	.....	10,327,595	10,434,327	+106,732	+106,732
Research, Development, Test and Evaluation, Defense-Wide	25,938,027	24,280,891	25,122,150	-815,877	+841,259
Operational Test and Evaluation, Defense	227,700	210,090	257,120	+29,420	+47,030
Total, title IV, Research, Development, Test and Evaluation	104,431,232	106,224,793	104,080,076	-351,156	-2,144,717
TITLE V					
REVOLVING AND MANAGEMENT FUNDS					
Defense Working Capital Funds	1,564,211	1,348,910	2,600,910	+1,036,699	+1,252,000
Total, title V, Revolving and Management Funds	1,564,211	1,348,910	2,600,910	+1,036,699	+1,252,000
TITLE VI					
OTHER DEPARTMENT OF DEFENSE PROGRAMS					
Defense Health Program					
Operation and maintenance	31,321,665	31,349,553	30,906,612	-415,053	-442,941
Procurement	446,359	617,926	530,842	+84,483	-87,084
Research, development, test and evaluation	2,306,095	722,893	1,749,599	-556,496	+1,026,706
Total, Defense Health Program ¹	34,074,119	32,690,372	33,187,053	-887,066	+496,681
Chemical Agents and Munitions Destruction, Defense:					
Operation and maintenance	107,351	106,691	106,691	-660	.....

COMPARATIVE STATEMENT OF NEW BUDGET (OBLIGATIONAL) AUTHORITY FOR FISCAL YEAR 2020 AND BUDGET ESTIMATES AND AMOUNTS RECOMMENDED IN THE BILL
FOR FISCAL YEAR 2021—Continued
[In thousands of dollars]

Item	2020 appropriation	Budget estimate	Committee recommendation	Senate Committee recommendation compared with (+ or -)	
				2020 appropriation	Budget estimate
Procurement	2,218	616	616	-1,602	
Research, development, test and evaluation	875,930	782,193	782,193	-93,737	
Total, Chemical Agents ²	985,499	889,500	889,500	-95,999	
Drug Interdiction and Counter-Drug Activities, Defense ¹	893,059	769,629	923,429	+30,370	+153,800
Office of the Inspector General ¹	363,499	371,439	371,439	+7,940	
Total, title VI, Other Department of Defense Programs	36,316,176	34,720,940	35,371,421	-944,755	+650,481
TITLE VII					
RELATED AGENCIES					
Central Intelligence Agency Retirement and Disability System Fund	514,000	514,000	514,000		
Intelligence Community Management Account (ICMA)	556,000	663,000	624,653	+68,653	-38,347
Total, title VII, Related agencies	1,070,000	1,177,000	1,138,653	+68,653	-38,347
TITLE VIII					
GENERAL PROVISIONS					
Additional transfer authority (Sec. 8005)	(4,000,000)	(5,000,000)	(4,000,000)		(-1,000,000)
FFRDC (Sec. 8024)			-13,789	-13,789	-13,789
Rescissions (Sec. 8041)	-4,090,652		-3,519,020	+571,632	-3,519,020
National grants (Sec. 8047)	44,000		24,000	-20,000	+24,000
O&M, Defense-Wide transfer authority (Sec. 8051)	(30,000)	(30,000)	(30,000)		
Property Services		25,000			-25,000
Military Museum		1,000			-1,000
John C. Stennis Center for Public Service Development Trust Fund (O&M Navy transfer authority) (Sec. 8065) ..	(1,000)		(1,000)		(+1,000)
Fisher House Foundation	10,000			-10,000	

Fisher House O&M Army Navy Air Force transfer authority (Sec. 8087)	(11,000)	(11,000)	(11,000)	(11,000)	.....	.....
Defense Health O&M transfer authority (Sec. 8091)	127,000	(137,000)	(137,000)	(137,000)	(+ 10,000)	.....
Public Schools on Military Installations	315,000	.....	.....	.....	-315,000	.....
Revised economic assumptions	-81,559	.....	.....	.....	+81,559	.....
Revised fuel costs (Sec. 8118)	.....	.....	.....	.....	-1,600,000	.....
Defense Industrial Base and Supply Chain Resiliency (Sec. 8120)	.....	.....	.....	.....	+100,000	+100,000
Readiness (Sec. 8122)	.....	.....	.....	.....	+3,519,472	+3,519,472
Total, title VIII, General Provisions	-3,803,211	26,000	-1,489,337	-1,489,337	+2,313,874	-1,515,337
TITLE IX						
OVERSEAS CONTINGENCY OPERATIONS/GLOBAL WAR ON TERRORISM (GWOT)						
Military Personnel						
Military Personnel, Army (GWOT)	2,743,132	2,748,033	2,748,033	2,748,033	+4,901	.....
Military Personnel, Navy (GWOT)	356,392	382,286	382,286	382,286	+25,894	.....
Military Personnel, Marine Corps (GWOT)	104,213	129,943	129,943	129,943	+25,730	.....
Military Personnel, Air Force (GWOT)	1,007,594	1,077,168	1,077,168	1,077,168	+69,574	.....
Reserve Personnel, Army (GWOT)	34,812	33,414	33,414	33,414	-1,398	.....
Reserve Personnel, Navy (GWOT)	11,370	11,771	11,771	11,771	+401	.....
Reserve Personnel, Marine Corps (GWOT)	3,599	2,048	2,048	2,048	-1,551	.....
Reserve Personnel, Air Force (GWOT)	16,428	16,816	16,816	16,816	+388	.....
National Guard Personnel, Army (GWOT)	202,644	195,314	195,314	195,314	-7,330	.....
National Guard Personnel, Air Force (GWOT)	5,624	5,800	5,800	5,800	+176	.....
Total, Military Personnel	4,485,808	4,602,593	4,602,593	4,602,593	+116,785	.....
Operation and Maintenance						
Operation & Maintenance, Army (GWOT)	20,092,038	17,137,754	17,020,703	17,020,703	-3,071,335	-117,051
Operation & Maintenance, Navy (GWOT)	8,772,379	10,700,305	10,580,305	10,580,305	+1,807,926	-120,000
Operation & Maintenance, Marine Corps (GWOT)	1,109,791	1,102,600	1,090,667	1,090,667	-19,124	-11,933
Operation & Maintenance, Air Force (GWOT)	10,359,379	17,930,020	17,690,020	17,690,020	+7,330,641	-240,000
Operation & Maintenance, Space Force (GWOT)	.....	77,115	77,115	77,115	+77,115	.....
Operation & Maintenance, Defense-Wide (GWOT)	7,803,193	6,022,254	6,063,152	6,063,152	-1,740,041	+40,898
(Coalition support funds) (GWOT)	(225,000)	(-180,000)	(-180,000)	(-180,000)	(-45,000)	.....
Operation & Maintenance, Army Reserve (GWOT)	37,592	33,399	33,399	33,399	-4,193	.....
Operation & Maintenance, Navy Reserve (GWOT)	23,036	21,492	21,492	21,492	-1,544	.....
Operation & Maintenance, Marine Corps Reserve (GWOT)	8,707	8,707	8,707	8,707	.....	.....
Operation & Maintenance, Air Force Reserve (GWOT)	29,758	30,090	30,090	30,090	+332	.....

COMPARATIVE STATEMENT OF NEW BUDGET (OBLIGATIONAL) AUTHORITY FOR FISCAL YEAR 2020 AND BUDGET ESTIMATES AND AMOUNTS RECOMMENDED IN THE BILL
FOR FISCAL YEAR 2021—Continued
(In thousands of dollars)

Item	2020 appropriation	Budget estimate	Committee recommendation	Senate Committee recommendation compared with (+ or -)	
				2020 appropriation	Budget estimate
Operation & Maintenance, Army National Guard (GWOT)	83,291	79,792	79,792	-3,499	.....
Operation & Maintenance, Air National Guard (GWOT)	1,76,909	1,75,642	1,75,642	-1,267	.....
Subtotal	48,496,073	53,319,170	52,871,084	+4,375,011	-448,086
Afghanistan Security Forces Fund (GWOT)	4,199,978	4,015,612	3,391,019	-808,959	-624,593
Counter-ISIS Train and Equip Fund (GWOT)	1,195,000	845,000	522,500	-672,500	-322,500
Total, Operation and Maintenance	53,891,051	58,179,782	56,784,603	+2,893,552	-1,395,179
Procurement					
Aircraft Procurement, Army (GWOT)	531,541	461,080	455,112	-76,429	-5,968
Missile Procurement, Army (GWOT)	1,423,589	881,592	796,599	-626,990	-84,993
Procurement of Weapons and Tracked Combat Vehicles, Army (GWOT)	346,306	15,225	15,225	-331,081	.....
Procurement of Ammunition, Army (GWOT)	148,682	110,668	103,875	-44,807	-6,793
Other Procurement, Army (GWOT)	1,080,504	924,077	919,917	-160,587	-4,160
Aircraft Procurement, Navy (GWOT)	95,153	33,241	32,905	-62,248	-336
Weapons Procurement, Navy (GWOT)	116,429	5,572	5,572	-110,857	.....
Procurement of Ammunition, Navy and Marine Corps (GWOT)	204,814	95,942	95,942	-108,872	.....
Other Procurement, Navy (GWOT)	351,250	343,526	343,526	-7,724	.....
Procurement, Marine Corps (GWOT)	20,589	47,963	47,963	+27,374	.....
Aircraft Procurement, Air Force (GWOT)	851,310	569,155	569,038	-282,272	-117
Missile Procurement, Air Force (GWOT)	201,671	223,772	223,772	+22,101	.....
Procurement of Ammunition, Air Force (GWOT)	934,758	802,455	785,617	-149,141	-16,838
Other Procurement, Air Force (GWOT)	3,748,801	355,339	355,339	-3,393,462	.....
Procurement, Defense-Wide (GWOT)	438,064	258,491	273,491	-164,573	+15,000
National Guard and Reserve Equipment (GWOT)	1,300,000	.....	850,000	-450,000	+850,000
Total, Procurement	11,793,461	5,128,098	5,873,893	-5,919,568	+745,795

Research, Development, Test and Evaluation									
Research, Development, Test & Evaluation, Army (GWOT)	147,304	182,824	148,157	+ 853	- 34,667				
Research, Development, Test & Evaluation, Navy (GWOT)	164,410	59,562	59,562	- 104,848					
Research, Development, Test & Evaluation, Air Force (GWOT)	128,248	5,304	5,304	- 122,944					
Research, Development, Test and Evaluation, Defense-Wide (GWOT)	394,260	82,818	82,818	- 311,442					
Total, Research, Development, Test and Evaluation	834,222	330,508	295,841	- 538,381	- 34,667				
Revolving and Management Funds									
Defense Working Capital Funds (GWOT)	20,100	20,090	20,090	- 10					
Other Department of Defense Programs									
Defense Health Program:									
Operation & Maintenance (GWOT)	347,746	365,098	365,098	+ 17,352					
Drug Interdiction and Counter-Drug Activities, Defense (GWOT)	153,100			- 153,100					
Office of the Inspector General (GWOT)	24,254	24,069	24,069	- 185					
Total, Other Department of Defense Programs	525,100	389,167	389,167	- 135,933					
TITLE IX General Provisions									
Additional transfer authority (GWOT) (Sec. 9002)	(2,000,000)	(4,500,000)	(2,000,000)		(- 2,500,000)				
Intelligence, Surveillance, and Reconnaissance (GWOT)	250,000			- 250,000					
Readiness (Sec. 9011)			2,400,000	+ 2,400,000	+ 2,400,000				
Rescissions (GWOT) (Sec. 9017)	- 1,134,742		- 1,716,187	- 581,445	- 1,716,187				
Total, General Provisions	- 884,742		683,813	+ 1,568,555	+ 683,813				
Total, title IX (OCO/GWOT)	70,665,000	68,650,238	68,650,000	- 2,015,000	- 238				
TITLE X									
NATURAL DISASTER RELIEF									
OPERATION AND MAINTENANCE									
Operation and Maintenance, Navy (emergency)	427,000			- 427,000					
Operation and Maintenance, Marine Corps (emergency)	394,000			- 394,000					
Operation and Maintenance, Air Force (emergency)	110,000			- 110,000					
Operation and Maintenance, Army National Guard (emergency)	45,700			- 45,700					

COMPARATIVE STATEMENT OF NEW BUDGET (OBLIGATIONAL) AUTHORITY FOR FISCAL YEAR 2020 AND BUDGET ESTIMATES AND AMOUNTS RECOMMENDED IN THE BILL
 FOR FISCAL YEAR 2021—Continued
 [In thousands of dollars]

Item	2020 appropriation	Budget estimate	Committee recommendation	Senate Committee recommendation compared with (+ or -)	
				2020 appropriation	Budget estimate
Total, Operation and Maintenance	976,700	.....	.....	-976,700	.....
PROCUREMENT					
Other Procurement, Navy (emergency)	75,015	.....	.....	-75,015	.....
Procurement, Marine Corps (emergency)	73,323	.....	.....	-73,323	.....
Aircraft Procurement, Air Force (emergency)	204,448	.....	.....	-204,448	.....
Other Procurement, Air Force (emergency)	77,974	.....	.....	-77,974	.....
Total, Procurement	430,760	.....	.....	-430,760	.....
RESEARCH, DEVELOPMENT, TEST AND EVALUATION					
Research, Development, Test and Evaluation, Navy (emergency)	130,444	.....	.....	-130,444	.....
REVOLVING AND MANAGEMENT FUNDS					
Defense Working Capital Funds (emergency)	233,500	.....	.....	-233,500	.....
Total, title X	1,771,404	.....	.....	-1,771,404	.....
OTHER APPROPRIATIONS					
SECOND CORONAVIRUS PREPAREDNESS AND RESPONSE SUPPLEMENTAL APPROPRIATIONS ACT					
DEPARTMENT OF DEFENSE					
Defense Health Program (emergency)	82,000	.....	.....	-82,000	.....
Total, Second Coronavirus Preparedness and Response Supplemental Appropriations Act	82,000	.....	.....	-82,000	.....

EMERGENCY APPROPRIATIONS FOR CORONAVIRUS HEALTH RESPONSE AND AGENCY OPERATIONS (Public Law 116-136 Division B)				
DEPARTMENT OF DEFENSE				
MILITARY PERSONNEL				
National Guard Personnel, Army (emergency)	746,591			-746,591
National Guard Personnel, Air Force (emergency)	482,125			-482,125
Total, Military Personnel	1,228,716			-1,228,716
OPERATION AND MAINTENANCE				
Operation and Maintenance, Army (emergency)	160,300			-160,300
Operation and Maintenance, Navy (emergency)	360,308			-360,308
Operation and Maintenance, Marine Corps (emergency)	90,000			-90,000
Operation and Maintenance, Air Force (emergency)	155,000			-155,000
Operation and Maintenance, Defense-Wide (emergency)	827,800			-827,800
Operation and Maintenance, Army Reserve (emergency)	48,000			-48,000
Operation and Maintenance, Army National Guard (emergency)	186,696			-186,696
Operation and Maintenance, Air National Guard (emergency)	75,754			-75,754
Total, Operation and Maintenance	1,903,858			-1,903,858
PROCUREMENT				
Defense Production Act Purchases (emergency)	1,000,000			-1,000,000
REVOLVING AND MANAGEMENT FUNDS				
Defense Working Capital Funds (emergency)	1,450,000			-1,450,000
OTHER DEPARTMENT OF DEFENSE PROGRAMS				
Defense Health Program:				
Operation and Maintenance (emergency)	3,390,600			-3,390,600
Research, Development, Test, and Evaluation	415,000			-415,000
Total, Defense Health Program	3,805,600			-3,805,600
Office of the Inspector General (emergency)	20,000			-20,000
GENERAL PROVISIONS				
Defense Health Program (Sec. 13002) (emergency)	1,095,500			-1,095,500

COMPARATIVE STATEMENT OF NEW BUDGET (OBLIGATIONAL) AUTHORITY FOR FISCAL YEAR 2020 AND BUDGET ESTIMATES AND AMOUNTS RECOMMENDED IN THE BILL
 FOR FISCAL YEAR 2021—Continued
 [In thousands of dollars]

Item	2020 appropriation	Budget estimate	Committee recommendation	Senate Committee recommendation compared with (+ or -)	
				2020 appropriation	Budget estimate
Total, Emergency Appropriations for Coronavirus Health Response and Agency Operations (Public Law 116-136 Division B)	10,503,674			-10,503,674	
Total, Other Appropriations	10,585,674			-10,585,674	
Grand total	698,341,963	690,168,572	688,070,500	-10,271,463	-2,098,072
Appropriations	(619,410,537)	(621,518,334)	(622,939,520)	(+3,528,983)	(+1,421,186)
Emergency appropriations	(12,357,078)			(-12,357,078)	
Global War on Terrorism (GWOT)	(71,799,742)	(68,650,238)	(70,366,187)	(-1,433,555)	(+1,715,949)
Rescissions	(-4,090,652)		(-3,519,020)	(+571,632)	(-3,519,020)
Rescissions (GWOT)	(-1,134,742)		(-1,716,187)	(-581,445)	(-1,716,187)
(Transfer Authority)	4,169,000	5,178,000	4,179,000	+10,000	-999,000
(Transfer Authority) (GWOT)	2,000,000	4,500,000	2,000,000		-2,500,000

¹ Included in Budget under Operation and Maintenance.

² Included in Budget under Procurement.

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